

Dr. V A S K O M. N A J D O V S K I

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DR. VASKO M. NAJDOVSKI

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FAITH AND REASON IN DIALOGUE
– THE TESTAMENT OF TRUTH

DR. VASKO M. NAJDOVSKI
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FAITH AND REASON IN DIALOGUE
–THE TESTAMENT OF TRUTH

PUBLISHED BY GLOBAL DIALOGUE FOUNDATION





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Dedication



FOR

MAN K I N D

VASKO 





Preface

In today's world everyone can be happy. In spite of the fact that the world is full of violence and all manner of terror, an unfortunate continuation of humanity's inherited characteristics throughout the millennia of our evolution, Man has already started to rise above himself and his selfdestructive tendencies. This is evident in the fact that people have long been preoccupied and predominated by a universal thought about themselves, and at the same time about humanity in general, as a universal brotherhood; on this view Earth begins to look like a world community of nations and a field for their cultural development and positive competition. Man becomes more aware of his needs and the needs of other people, regardless of their appearance, colour, race or nationality. When each of us can preserve our identity, culture, tradition, language and customs as our own inheritance from over the centuries, when we become independent without any fear for our existence, then we become more aware of the needs of other people who are at a lower stage of development — discriminated against for various reasons, or unequal in any sense. This has already been happening, although the path has not been easy.

When all become equal and accept such equality as a rule and truth for themselves and others — as indeed people are equal among themselves at the basic bio-energetic level — then human beings will help each other so they can enjoy all the benefits of life. May the good and the bad be shared amongst

everyone equally. May everybody everywhere be equally happy — the children as children, the adults as adult, men as men and women as women, the elderly as elderly. Let all be proud of who and what they are, with their problems and their benefits. Let all enjoy the beauties of life together, shared equally among themselves. This is the future of humanity, the only way and law in the new world order: the world of future and light, in which everybody will find the place they deserve ... The world that is coming ...

At this stage of development, humanity requires more logical and scientific explanations about the world around us, and religions themselves can confidently use scientific means to prove or disprove matters that are in their interests. At such a stage, our scientific and spiritual thought offers opportunities for mutual examination. For the first time in its not-so-long history, scientific thought, with its new visions and technologies, offers opportunities for more objective research and the possibility of explaining the most impenetrable mysteries from nearly all fields, including religion and spirituality.

In the pages that follow, an attempt will be made to give a scientific presentation and theoretical explanation as to why we need to form dialogue and cooperation between peoples, cultures, religions and science to unite physical and spiritual knowledge. Some starting formulations and theoretical explanations about our feelings and emotions will be given from a bio-energetic point of view, as well as theoretical interpretations of some paraphenomena or bio-energetic phenomena, such as telepathy, telekinesis, spiritual presences, energetic worlds and self-igniting. I shall also try to explain some morals from the religious and spiritual world in a direct and practical way, using modern science, above all physics and astronomy. At the same time, I shall try to explain the theory of bio-energy as a foundation of our individual and universal existence, simply as a self-formed, self-conscious, multidimensional and intelligent creation of oneself and everyone, with its own beginning and end without end, creation of all creations ...

It should be pointed out that this book does not try to explain all sacred matters that are issues concerning religious or other theo-philosophical groups and teachings. Nor does it seek to form parallel institutions or to interfere with the interior matters of these institutions, nor create any rivalry among them or between them and modern science, nor indeed with anything that could defame or be seen to denigrate in any way. Further, the book does not seek to expand upon existing science, nor deny it or suggest anything that can violate its authority or reputation. On the contrary, the book seeks out common ground for understanding and cooperation among the existing religions, groups, organisations and teachings and their future cooperation with scientific thought in the world, from which a new science, cooperation, understanding and dialogue will emerge to unite the physical and spiritual knowledge of humankind. From the author's point of view, humanity itself needs to take this step on its way towards a new world order without borders in the heads and hearts of people, towards an open and inspired society in

which the world would be a community of peoples and nations and a field for their common cultural expression and progress. In such a society, united religions with a scientific interpretation of matters inside and around us would unite, educate and deeply care for people at a spiritual and physical level. Religions can be united in the sense of agreeing about matters in which spiritual movements have already formed their views and which overlap, so these common interpretations would form a circle in which different beliefs can come closer and become more cooperative, with understanding, tolerance and friendship. At the same time each religion should keep their distinctive characteristics, without any move towards assimilation or negation of any of the present religions and teachings.

In short, religions should remain close to the people, as they are now, only enriched with scientific interpretations supplied by an understanding of bio-energy. Science can add to the interpretation of teachings, practices and spiritual phenomena that can help them to connect to the masses. An example might be diet: there is a directive towards fasting in nearly all religions, and science has recently begun to see the benefits for health. What the religions have been practising for centuries, science can explain by researching how it protects health and prevents diseases, and in return religions can protect these scientific matters from misrepresentation. Thus it is very important that science and religion should not attack each other but rather build coexistence and tolerance. After all it is only religion and science that remain eternal, as in the beginning, because they deal with the fundamental, eternal issues of Man and his soul. Giving respect to religions means caring about the eternal record of humanity. The balance between spirituality and the materialistic way of living is necessary and should be welcomed, and both sides should come together for the common interest. In this way, humankind is finally on the threshold of realising its moral potential, and since we have learned much on the journey thus far, can set out bravely towards the future. Only our spiritual and material union at all levels of development can guarantee a brighter future for the next generations.

Since we have the same origin and we share the same concerns, then it is time we united around what is common to all of us, such as our feelings, emotions, connections and relationships, our identity in structure and energy, our spiritual and material needs. Not only the Buddhist but also the atheist, the Muslim, the Orthodox Christian, the Catholic, the Jew, the Protestant and the Hindu want to live a comfortable life, to enjoy themselves and be happy with their families. All feel love and sorrow, joy and grief equally. Even our anatomical structure is the same, although our outer appearance differs in details, which is a drop in the ocean in comparison to what unites us.

That is why the time has come for a new world order, to provide the pathway for humanity to set sail to where it belongs — to the universe, together with all its secrets and beauties, where we have always had our place. Only in this kind of society and only along this kind of spiritual

pathway, we can freely say to each other in friendly manner that we are creating and living in true brotherhood & sisterhood- illuminating the world, celebrating life, remembering who we were and who we are- Universal Brotherhood of Man.





Introduction

*They say a dream can be learned ...
They say the person who has done bad things
does not sleep easy ...
Maybe ...*

Dreams appear to be severely altered in the disorder known as REM Sleep Behaviour Disorder or RBD. In a study reported in the scientific journal *Neurology* (October 11, 2005), 98 patients reported that when their sleep was disturbed in the state of RBD they had violent dreams four times more often than healthy people. This study also showed that through dreams there is a tendency to overcome the violent barriers of life, and that those whose life is more turbulent, so to speak, have more turbulent dreams in order to go on more peacefully with their lives, which goes to show that we really can learn from dreams.

Scientists are learning to their surprise that a single gene very often functions differently in different parts of the body, as recently reported in research from the Massachusetts Institute of Technology in *World Science* (November 2, 2008). Elsewhere, scientists have discovered more and more facts about DNA (deoxyribonucleic acid), to the point that there is speculation that a gene of long life has been identified. There may be no issue with popularising this knowledge, except for the moral issues that, it seems, only conservatives and religious thinkers have considered. In this context, from the bio-energetic point of view one might ask: who wants to live 600 or 700 years at this level of an intellectual and spiritual development of mankind? Why would they? There is crime and corruption at every step of life, and if a man

with his 100 years of life spends 60–70 of these dealing with criminal activities, then who would want to witness another terrible half millennium of criminal and corrupted behaviour? Where would the world be after this period?

Genetic engineering is interesting from a scientific point of view, but at the same time could be fatal if it is pursued too hastily. In fact, our life, even from the act of conception, is a sort of genetic engineering. The difference is that it is natural, the timing and the realisation of this act being mostly non-violent and taking the time that is appropriate to the intellectual and spiritual development of the individual concerned. Restricting genetic engineering may lead science to suffer, but humanity and the environment are suffering too. In this context, this book comes as a necessity.

‘Knowing yourself, know the world’: this ancient wisdom is a philosophical truth as well, something to which more and more people aspire, looking for an explanation for life, for an understanding that was held dear and bright and well known for centuries, and yet today seems so distant, strange, obscured and dark. In looking for themselves people are constantly knocking on the wrong door in the coldness and emptiness of the professionalism they created as a necessity, to provide themselves with a definite direction and sense of progress. Out of inertia, to look for and acknowledge complexity only, modern people complicate things more, losing themselves and often forgetting that the most complicated thing is very simple, and that all the mysteries and secrets around them practically reside in their own selves. Today, not for the first time, running from the worthlessness of civilisation, in reaching for the highest pedestal of scientific and technical development, Man has become imprisoned by professionalism and coldness once again has come to their personal state. For, as attractive as our scientific and technological development is, it is fatal as well. Today, Man pays the bill for his carelessness because in the race for status he has forgotten himself and so is estranged from his inner being, from friends, relatives, family and nature. More and more families have been destroyed, have been estranged from each other, losing contact with each other and their natural rhythm of life, straying from the path of that which created them — the universe, God.

Like prisoners inside cold walls, people have built their peculiar rhythms of life, becoming addicted to electronic appliances, with computers, television and other sets everywhere in their homes, at work, in centres for recreation. They have forgotten their need to socialise, communicate, express sincerity with love, sympathy and mercy; they have replaced it by seeking ever newer ‘cold friends’ to whom they will transfer their egocentricity without any protest. The evolution of professionalism itself makes all the beauty of life gradually become a mystic memory. Professionalism, seen as a result of man’s creative evolution, is a necessity that need not be destroyed, but a conscious balance should be made out of all human activities with an accent on our needs for family, society, community and relationships with friends, and communion with nature, because today we must consider that our family is the whole of mankind. In that way, running from the cold heights of science, Man will

become aware of his warmer features, his emotions, feelings, his light — all that at moments seems very strange, interesting, mystical and, fortunately, only temporarily estranged from him. These feelings, emotional ties and communicative relationships should become an integral part of our everyday life, as a science with its scientific interpretations. Once and forever, the circle of mysticism should be stopped and an end put to our ceaseless wandering along a road to nowhere, and our consciousness should be elevated by overcoming the present cycle of evolution, which unfortunately has led in the direction of self-destruction, with our inventing more and more weapons for our own annihilation. The level of individual and collective consciousness needs us to evolve beyond this stage, so that Man can truly become what he is considered to be — a *human* being! In order to realise that, only a small effort is needed, and any obstacle that exists within us can easily be eliminated.

The development of science and technology, together with human development in general but particularly in the information area, will pave the way for raising human consciousness so as to realise the future development of mankind and the planet as a whole, joined in an inextricable community. In the past one could speculate and argue with some information and some disinformation for the benefit of oneself or others, thereby creating different propaganda and mystifications about the real events on the planet. These misinterpretations have smouldered through human history as a result of entrenched attitudes, interests and hypotheses, unable to be investigated, or marked as taboo. Today, thanks to the development of science, those subjects can be checked out and investigated in a short period of time, regardless of their location in space and time. Materialism has taken us far away from our true selves, yet it is still good to keep this level of development as a springboard for the coming, more spiritual development of humanity. With this movement we will progress towards a conscious, balanced state of Man, the environment and the planet and universe in general as an energetic-physical unity, representing the oneness of the spiritual and the material.

The way already paved for material well-being will enable humanity to develop and will indicate prospects and spheres for investigation and progress. Opportunities will arise for learning about the planet as a whole and, at the same time, learning about human problems and needs in any place on the planet and finding ways to solve them through material advancement. The majority of people who have provided for their material needs will initiate a new awareness of themselves and the universe as a whole. In this time of light, Man will begin to realise himself more thoroughly and to learn about other people, the environment, and the universe of which we all form a part.

Self-realisation will contribute to preserving the environment, recognising that the plant and animal worlds represent a sound basis for building a secure and pleasant nest for all on the planet, where the rabbit and the wolf, the tiger and the child will play together. This will enable us to preserve and nurture our environment and look for other ways of sustaining life, such as alternative sources of power and food. Then, truly, Man will turn from being 'a wolf for

himself ' (*homo hominus lupus est*) into what he considers himself to be — a human being (*homo hominus*).

The development of humankind until today, together with our ongoing curiosity and adaptability towards new living conditions and the need for material development, will mean that we can continue inhabiting and building the planet and at the same time learning about the universe and its laws. The original exploration of the universe was motivated by a desire for superiority and power, but with the development of man's spirituality and self-realisation it will turn into something routine for recreation, work, knowledge and business. People from every corner of the planet will start to self-realise and appreciate their oneness, their identical material requirements and their similar emotional development, and will thereby become more aware of their spiritual needs. This oneness of people should make them unite and overcome their self-destructive characteristics, which have grown from their hunger for power, money, and fame — all of them simply material needs. The urgency and importance of balance, with an emphasis on spirituality and all the benefits that have come out of it, should inspire people to unite into a peaceful human brotherhood across this wonderful planet. That is the natural development of humanity. Unity will not arise because of violent and abrupt unions in response to collective danger, as was the case with the World Wars and other catastrophes in the past, nor will it originate from external dangers such as alien invasion of our planet, after which dangers new hatreds always arise among onetime allies. Rather, it will be a natural, non-violent union stimulated by recognition of our oneness and our identical needs. This will be natural and everlasting. In that way, Man will live in the world to which he has always belonged — 'the world and the kingdom of light, and according to a law for heaven and earth' — following the law of love, truth and light. It is high time, isn't it?

To achieve self-realisation requires that we investigate our relationships with ourselves and, at the same time, with nature in both our immediate and extended environments. There is an inevitable need to examine our emotions and feelings together with our connections and relationships. It is also inevitable that humans should be considered as energetic physical beings, as a material and spiritual unity. Our relationships, our feelings and our emotional life are a foundation for our whole existence, whether in progress or regress. Our mood, our attitude towards ourselves and our surroundings depend on the same causes, as do our health, our decisions, our future and the future of our planet.

These issues should be considered scientifically. Because of a host of historic reasons, they were instead neglected for a long time, and they were often dealt with by spiritual or atheistic individuals belonging to philosophical and religious organisations, hermetic groups or the like. Because science was indifferent to religion, the assumption among spiritual thinkers was that everybody could interpret events without reference to science or to official religions. In the absence of standards, the same things were interpreted

differently or were set in dogmatic forms with different approaches and interpretations that resulted in a twisting of the truth, beliefs and events connected with them. Further mystification resulted, enabling people within the hierarchies of authoritarian institutions and secret societies to make their own interpretations, to start to separate from the mainstream and to form their own movements. This has led to an inestimable number of crimes and bloodshed, which unfortunately have impacted most seriously the lives and destinies of the common people.

There are many religions in the world. These number theological or philosophical movements, hermetic groups and teachings, and nonreligious movements, all of which give largely identical interpretations for the same things, or celebrate the same people who played a key and fundamental role in these what they agree to be important matters (such as Abraham in Christianity, Islam and Judaism). The beliefs and traditions in the religions themselves, or in their movements and branches, overlap. In the past that was a source for all manner of clashes.

Today we live in a time when these beliefs should be the missing links for unification and bringing people together. In fact, humankind is at such a level of development that there is an urgent need for uniting all our teachings and knowledge about ourselves and the phenomena around us and in the universe, so that we can improve our state of being and ensure there will be no more vicious circle of self-destruction. That is why there is a need for the systemisation of knowledge, teachings, customs and traditions from all people on the planet — scientific as well as spiritual, material as well as non-material. This is the common person's inheritance from millennia of painstaking development, a way to find common ground for cooperation without interference in the scientific or spiritual identities of the participants or their independence, giving scientific examination, proof and standardisation of our energetic-spiritual life in relation to our material life. So it is that we need a new science that will unite knowledge of the material world with the spiritual-energetic knowledge about ourselves, our surroundings and the universe.

This is a necessity driven by a variety of conditions, one of which is that people on the planet have experienced a quantum leap in their development, understanding, perceptions, way of living and so forth, and having learnt the lessons from the past they do not easily accept any interpretation imposed by others about matters such as nutrition, health and, above all, spirituality, which has been prone to misinterpretations by individuals with dubious goals, and misused by individuals for personal, political, business or perverse reasons.

The fact is this: we should realise that basically we are what we are, the same as everything else around us — matter and energy. Regarding the **intelligent** components of the individual, like memory and consciousness, this means energy, or spirituality, intellect, or mind. A professional approach to this issue is more than necessary today, so that Man can outlive himself. That means a theory about the most elementary thing inside and around us, living energy or

bio-energy, which can be found anywhere, even in the most elementary subatomic particles. Realising what is bio-energy will open new perspectives and new teachings, providing a more balanced approach towards ourselves and our consciousness, which is what humanity needs in order to end its wandering. It will also help to overcome previous interpretations of alpha and omega, the beginning and end of evolution, which referred strictly to Man and his development up to the current level. Time itself requires this at our present level of development, as understood not only from a general religious idea, but also from a modern scientific perspective.

Scientific discoveries point out that the universe is not as it is, 'given' once and for ever, as some kind of coincidence, but is here as a creative invention, which has been shaped and is itself continuing to shape 'towards' something new, visible or not visible, known or not known to us. From a bio-energetic perspective it represents its own creation and the creation of all creations through its own evolution. The latest findings in physics and cosmology point out that before this universe of ours was 'conceived' by expansion after the Big Bang, there was another that used to contract — according to some hypotheses, so the Big Bang could be a repeating cycle, in which universes might expand, then shrink back, then expand again. Such were the findings of Abhay Ashtekar, director of the Institute for Gravitational Physics and Geometry at Penn State University, Pennsylvania (USA) published in *World Science* (May 14, 2006). Supporting this thesis is the idea that time and space are built from tiny 'minuscules', an indivisible matter that look like particles from the atomic world, so that even time is prone to twisting. In this sense, religious teachings about the eternity of the soul and the energy that is present after death and before the birth of the new, in another dimension — the end of this earthly world and the beginning of a heavenly life — overlap with the discoveries of contemporary science through modern technologies and research.

Since science is pragmatic, it has already had the strength and the capacity to explore and prove these religious teachings. My main aim is to bring these two strands of knowledge closer for the benefit of humanity, without interfering in their original teachings but only having in mind the general interest. In fact, science has already reached this level of cognition through observations in areas like quantum physics, which from the start intersect with the teaching of religions. This can have a stressful impact on conservative scientific views and interpretations, first of all because of their unwillingness to consider something new, and especially something not 'equalising the dream with the reality', which quantum mechanics teaches as a possibility. The new era comes inevitably and requires a sound, standardised science that will not allow misinterpretations of any kind and from any side, because there is an identification of religious teachings and daily reality with quantum mechanics. This identification of scientific and religious teaching can generally cause conflicts of interests, not only in science but also in religion, and can further lead to rivalry and problems that have a negative effect on both scientific and

religious thought, and at the same time a negative effect on the development of humanity.

Because we are a carrier of both strands of thought, and they both exist for our benefit, there is a need for closer communication between religion and science through an independent institution that will systemise all the teachings and opinions and will use them for humanity's benefit, not only in spheres like education and health, but also in everyday life, offering interpretations of spiritual and energetic phenomena and events, avoiding at the same time superstitions, heterodoxies, speculations and the like from groups or individuals motivated by their own needs and interests. This body will consist of authoritative members as representatives of the respective institutions, as well as being be a creator and an initiator of legal amendments from everyday life in the fields of law, criminality, health and citizenship, providing a solid basis for creating a more humane and fair society with a higher level of values and ethics.

In this sense, the development of Man's intellect globally directs the investigation and knowledge of science to identify and even overlap with religious teaching, in this exact period of time. In this context, it should be mentioned that according to holy secrets such as the resurrection for some or nirvana for others, in either a symbolic or de facto way, death is defeated and with that the barriers of the omega. In other words, the religious teaching that speaks about life after death, resurrection or reincarnation has been proved by science in its own way, especially the idea that was unbelievable only yesterday: that everything originates from nothing and that at the beginning there was a quantum fluctuation, or as we might say, a vibration or word. From a religious point of view this can be put as: "In the beginning was Word, and Word was with God, and Word was God" (John 1:1).

Considering the scientific idea that before our universe was expanding, there was a universe that used to contract, in religious terms that would mean there was a rhythm of oscillations or opposites, expanding and contracting, according to the principles of hot and cold, black and white, male and female, and other dualities, which are present in almost all faiths as such. Having said this, we can conclude that it is high time that Man experience his own resurrection and by leaving his ominous, self-destructive circle, and by realising that he is a material, energetic, intelligent and creative unity, he could finally set sail in the eternal beauties of the absolute and the luxury of the universe with all its dimensions and forms of existence ...

Talking about bio-energy as a fundamental, primeval matter — **creation** for itself and by itself, and thus the creation of all creations — and having in mind the aforementioned, it is inevitable to offer explanations that have been covered both by religious teachings and beliefs as well as by scientific ones, especially in the modern scientific endeavour of quantum physics, astronomy and cosmology, because without all this knowledge we can not imagine how we could understand it. The discovery in physics, that before this expanding

universe of ours there was possibly another one that contracted, makes one think that maybe our universe has the same destiny and is a creation of something new, so that something that seems final, in light of the new findings, is infinite. That is why a degree of reservation is needed when approaching any theory, especially religious teachings and dogmas. Until now, because of certain limitations, science was not able even to come close to these teachings as being even semiscientific, let alone to confirm or deny them. That is why they had to be preserved as they were until now, and for some future time, until there will be more knowledge that will open new avenues for a universal and better development of our planet and the universe, with all their existing dimensions. The development of scientific thought and technology enables this progress to a new dimension, therefore it is essential that there is a professional communication between science and religion, while maintaining their independence.

Continuing in this manner, one must again mention that only now has science proven that, for example, fasting is healthy. Among other things, this is what religions have taught and promoted for centuries, although they did not know what cholesterol, triglycerides, insulin and the like were. It was not their fault that the religions did not know this or similar things, or they could not know what this would mean in terms that would be understood using modern scientific and practical points of view, because even science has made these discoveries only recently, although it is obvious how great the benefit has been and how great the outcome in the future will be. The important thing is the message that science and religions can complete each other at the right time, for the benefit of all.

Let me say this: today, it has been scientifically proven that people who think positively have a better immune system, that is to say a better defence mechanism, and are less prone to diseases and ailments than others who do not practice positive thinking. Meditation, prayers and the like help people who are ill to recover more quickly than those similar to them who do not perform these practices. So this positive thinking and meditative practice that religions have preached to the believers as central themes and standards for a settled, morally and ethically healthy life have a scientific basis. If we consider also their dietary regimes, or spiritually influenced activities like yoga that include breathing exercises along with movements, then by using scientific knowledge about the usefulness of exercising we can see the real potential and benefit of religious teachings in combination with science. Actually, these are the gains of religions that have been promoting this kind of living for centuries and science has only confirmed this recently and marked it as something right and good.

If bio-energy is a primal and fundamental constitutional unit of all creation, then it is the beginning and the end of things, and this leads to the conclusion that it must be a constitutional foundation to both the energetic and material phenomena in the universe. As mentioned earlier, this topic of discussion cannot be dealt with only from a material perspective without taking into consideration the role of energy, which seems to be a fundamental and primal

form of existence on which matter is built, in the quest for perfection, creating worlds and dimensions of existence. Hence, the issues at hand will be analysed both from the generally accepted religious and the proven scientific perspective, as far as the author is able, without going into deeper interpretations and analyses of either of their core tenets, so as to not to challenge their authority and reputation. We can say briefly that what is bio-energy and what stands behind it has existed before our beginning and will exist after our end. Simply put, according to religiously created and generally applied thought and teaching, one who identifies with alpha and omega is the one who has insight into or control of what was before alpha and after omega. This is to say that this entity is at the same time both alpha and omega, and would describe him thus: I Am who I am, I am Everything/Ya=I/ Hve= Everything/ Ya+Hve i.e. = YHWH = I Everything, ...Now and Forever/Alpha and Omega.

These terms have been used because this energy offers such possibilities. From a scientific point of view, it was Albert Einstein with his gravity theory who first stated that actually there is no empty space, and any part of the space, even if apparently empty or a vacuum, has the ability to produce a primal energy that identifies with space and time as well. Simply put, it is a space for itself and an energy for and by itself. Zero point energy or vacuum-space energy (concepts first proposed by Albert Einstein and Otto Stern in 1913), which will be mentioned later, provides for identification with the virtual particles themselves. No matter how much the universe space expands, this energy does not dilute but remains as it is, 'space energy'. Quantum theory teaches us that there are temporary, virtual particles, which are in permanent movement and constantly being destroyed and renewed, so they continuously contribute to creating negative space, which adds up to constant expansion of the universe. All this and more can be conveyed in the present work, matters already studied in quantum and other theories that enable us to believe and understand that in reality this energy is space and time, by and for itself, a life force with its energy, intellect and consciousness, as a foundation of energetic material matters and a kind of virtual energy that will transfer into virtual particles and vice-versa. It is a foundation and, at the same time, both an energy and a substance, a basic and structural energy, similar to the principle of a human's base stem cells. It is, put simply, life energy — bio-energy.

This work deals, among other things, with the importance of creating a new science that will unite the physical and spiritual knowledge of humanity. It talks about 'Man' in the general sense of all humanity, using words such as medium or extra-sense, extra-sensory perception and so on to describe his unique ability to detect all bio-energetic interactions, originated from and connected with him, in him, around him and in the universe. Among other things, in order to achieve effective control and interpretation of certain phenomena relating to man and the universe, there is a need to observe some matters from a 'live receiver' of bio-energetic interactions, and that is a human who is open to and conscious of the presence of 'live energy', because many bio-energetic qualities and interactions can not be adequately understood only

by external scientific instruments, no matter how much technology has been applied. In this role an individual can be a unique biological detector and live receiver of bio-energy. By this means a special trait is added to scientific observations, which could not be achieved otherwise. In this context, one of the reasons to speak in the vocabulary of both religion and science in this book is just because of this link that is missing between observation and the observer, which enables us to apprehend the right flavours and shapes of the things being analysed.

We must acknowledge, unfortunately, that most people are unable to express all that is hidden in their souls as a communicator or indicator who can uniquely translate this universal language, using their own words and phrases. Matters relating to our essential energy are no different, being very subtle. That is why it is very valuable to use for the best purposes the abilities possessed by especially gifted mediums or psychics. Thus Man, in this time of change, will be able to take his destiny in his hands and to glimpse beyond these phenomena, and with that will discover the real essence of his existence, helping to inspire and find a real meaning in his own existence. Without this, he is not a complete being. Scientific thought already has potential for this kind of approach, and religion demands this sort of internal quest to enable the populace to turn to its own religiosity and spirituality. Without finding satisfactory answers to their needs and questions, people will become more and more dissatisfied and therefore liable to manipulation and abuse of this important knowledge by incompetent or ill-motivated pretenders. This would lead only to destruction and delusion, something that we can not allow to happen now or at any time in the future ...

So we can conclude that because of the increasingly acute needs of humanity, science and religion need to form a common approach, not undermining or encroaching on each other's domains but proceeding in a professional way, to complement and give objective interpretations of questions for which people are seeking answers. For the time being, we should put aside issues of dogmatic intransigence or questionable teachings, if the answers are not satisfactory, because the moment may not have arrived when people could correctly interpret and understand the messages from holy books and religious teachings. In another time and place, with different views and levels of understanding, everything may seem different and the answers would be appropriate for the age and maturity of our comprehension.

This work will reflect generally on the themes discussed and will try to indicate directions for a more appropriate future interpretation of phenomena that appear in our direct surroundings, being around us, inside us, and everywhere in the universe. Only through this approach will all avenues open for exploration of such a broad field of enquiry — supported by the obvious fact that the most elementary subatomic particles basically are nothing more than energy with its intensity and quality, so that the word bio-energy is completely suitable in that sense.

By using the word bio-energy we mean intelligent creation. To explain that, a multi-faceted examination is needed, and this will be established in the main body of this text. But basically this term would mean that bio-energy itself is understood, nearly completely, as follows:

1 The existence of energy with its enduring forms as Quantum Energy and Electromagnetic Radiation (QEEMR), in other words microwaves, radio waves and other known and unknown electromagnetic radiations, as well as quantum-photons and the white light that we can observe from our surroundings (source of various ESP phenomena such as telekinetic, telepathic etc., more in the text with scientific explanations...). According to the latest findings only 5% of the known substance in the universe emits such light in a form that we can detect, keeping in mind that our power of detection comes to us from the atomic level; a dark matter, meanwhile, represents approximately 25% of the mass in the universe, yet little is known about it. Then there is a **enigmatic dark energy** — a carrier of darkness in the universe — representing the remaining 70% of the body of the universe (according to NASA), but about which little is known at the current level of scientific thought. It is still not known exactly what it is or what it represents, and it bears its name because it does not emit anything that we can detect. We therefore should observe the make-up of energy with some qualifications, allowing science the opportunity to further enhance our understanding of the essence of such matters. Dark energy or matter, from the perspective of bio-energy, has existed since the beginning of the universe and interacts on atomic and subatomic levels as well as invisibly between possible dimensions of existence to create various known and unknown phenomena around us and in the universe. Dark energy is of a different structure and is undetectable, characterised by the absence of light, and could possibly be realising or using other invisible matter as part of its regular processes. Since we do not yet know much about dark energy, a constructive scientific-religious dialogue needs to be advanced and extra care taken when theorising or experimenting with the phenomenon;

2 The existence of energy as a virtual energy, and with it, virtual waves in virtual space and virtual time that may later become part of our reality. The existence of these virtual particles, according to the latest research and discoveries in astronomy and cosmology, enables the universe to expand, and they are actually the energy of empty space as well, so they can be considered a sort of phantom energy, or dark energy (Dr Paul Howard Frampton, 2007). Energy as a primal light or archaic bio-energy appears in two opposite forms at its origin — one that emits and the other that absorbs light, one that creates and the other that destroys. The principle of photons or quanta gives us types of virtual particles that are constantly destroying and creating and then re-creating from nothing, and each of them has a tendency in the effort for existence to develop and create until reaching a point of perfection. Every other evolution follows this principle, creating new forms again and again until achieving perfection, which is in fact a never-ending process, building the new energetic spaces again and again towards a maximum point, where only one

wave-particle creates a new direction and perspective of development for the others. This process is without an end, a sort of live space for the bio-energy that interplays and goes on creating;

3 A dual form — the characteristic of bio-energy being that it can be represented by particles and antiparticles, and their transformation from a particle into wave and vice versa. That is to say, the same particles can be both particles and waves, simple sensory material as well as invisible non-material, characteristic of both material and spiritual realms;

4 The spectre of 'developed consciousness': the theoretical possibility that the very particles are aware of their own characteristics, of what the particle and also the wave carry;

5 Capabilities within the energy and the capacity for learning, remembering and memorising, as will be explained later;

6 The holographic principle and the material structure of time and space as part of the basic and primal bio-energetic creation from its origin;

7 The attractive characteristic of charm and resonant ability, linked to the power of colours, as will be explained later; and

8 The **uncertainty principle, non-locality phenomena**, and such like.

All of these points give reason to believe in the presence of bio-energy, with its own creative and evolutionary force able to adapt to new conditions of life with increasing perfection. If, as appears obvious, it is present in all elemental particles, it would mean that this energy is created of itself and so we can justify the terms **bio-energy, intelligent creation**. Because there was no other influence that could have directed the way to its refinement, and nothing else to which it could have compared itself, then this life energy had to channel its development in all directions, with maximum effort in the two basic directions of positive and negative (+ and -), so that at least one of them could succeed in development amidst uncertainty, and both directions could complement and alternate in taking the lead in their eternal, rival evolution towards a state of perfection.

Humans also follow this principle to some extent. As an exceptionally adaptable and endlessly creative creature, humans follow the path of evolution towards perfection, but as a result of our 'rival' side, embodying destructive potential that regrettably can outweigh our constructive ability, that perfection remains always out of reach. By a correct apprehension of the principles that apply to nature and to ourselves, we will be on the right track to our individual and collective perfection, but this time permanently.

Although evolution is not the subject of this publication, as a dominant topic of discussion in scientific circles over a long period it requires some reference. It

should therefore be noted that in each act of creativity there is an evolution, and hence in every evolution there is creativity. These two processes complement each other, but intelligent creation is the decisive factor that directs evolution at the very beginning point, creating a base matrix for the future development of the matter that has been conceived and prepared for evolution. As to how matter follows these complementary processes — and how the new system annuls the old chaotic development in order to bring order, harmony, prosperity and perfection at every level in every time-space segment — this is for united scientific and religious thought to decide a final position, without any fear of competition but with an objective approach and use for the benefit of all humanity. In this sense we must mention that in spite of the uncomfortable areas that we sometimes enter into when religious matters are under discussion, not forgetting that in the past some of these issues were so darkly coloured so as to strike fear, these should be faced as they are and accepted as they are, observed through a more objective prism and colours from the wide spectrum of the rainbow.

All this time almost all of these phenomena, things like ghosts and near-death experiences, have been explained in terms of a sensation of gardens, rivers and the like, sometimes seen as bright and yet still coloured in darkness or shivering sensations. Even though one knows the outcome will be bright, one has spooky feelings about these experiences because of the false publicity they have received. We should recognise that areas some regard as ‘creepy’ or frightening are part of our day-to-day life, and once and for all should get rid of the burden of the past to envision a better and brighter future for all on our planet, for the light to come. So science, as well as religion and every other segment of our society, must put light in all these phenomena in the present, where we are living full of sunshine, which will become past for other people. They should know that we used to live in beautiful world and not some creepy, spooky past. In that way all our existence, all our past, present and future, will be brighter and more realistic, being understood as it was rather than as shown by someone else who wanted to express their own point of view. Further, while the topics of discussion that follow are based on the latest scientific achievements, particularly in the fields of physics and astronomy, everything should still be viewed provisionally, because this is the first endeavour of its kind. Indeed, the author is not familiar with any other endeavour of this scope undertaken by anyone else. So from time to time there will be issues raised in relation to topics of discussion, with the findings herein being confirmed or challenged based on a different perspective. That is inevitable: the research for this work was accumulated over more than 30 years, and some research included was still in progress at time of writing, so even now the same answers can not be given for the same questions. Scientific thought is still progressing rapidly, and the themes traversed here are in some senses a living enquiry that is constantly going through qualification. One of the scientific research of strong interest showing that humans indeed radiate with light is coming from Japan:

The original Japanese scientific study is published under the title

- Imaging of Ultraweak Spontaneous Photon Emission from Human Body Displaying Diurnal Rhythm,

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Abstract

The human body literally glimmers. The intensity of the light emitted by the body is 1000 times lower than the sensitivity of our naked eyes. Ultraweak photon emission is known as the energy released as light through the changes in energy metabolism. We successfully imaged the diurnal change of this ultraweak photon emission with an improved highly sensitive imaging system using cryogenic charge-coupled device (CCD) camera. We found that the human body directly and rhythmically emits light. The diurnal changes in photon emission might be linked to changes in energy metabolism.

Introduction

Bioluminescence, which is weak but visible, is sometimes produced in living organisms, such as fireflies or jellyfish, as the result of specialized enzymatic reactions that require adenosine triphosphate. However, virtually all living organisms emit extremely weak light, spontaneously without external photoexcitation [1]. This biophoton emission is categorized in different phenomena of light emission from bioluminescence, and is

believed to be a by-product of biochemical reactions in which excited molecules are produced from bioenergetic processes that involves active oxygen species [1], [2]. Human body is glimmering with light of intensity weaker than 1/1000 times the sensitivity of naked eyes [3], [4]. By using a sensitive chargecoupled- device (CCD) camera with the ability to detect light at the level of a single photon, we succeeded in imaging the spontaneous photon emission from human bodies [3]. Previously, for obtaining an image, it took more than 1 hour of acquisition, which is practically impossible for the analysis of physiologically relevant biophoton emission. By improving the CCD camera and lens system, here we have succeeded in obtaining clear images using a short exposure time, comparable with the analysis of physiological phenomena. Since metabolic rates are known to change in a circadian fashion [5], [6], we investigated the temporal variations of biophoton emission across the day from healthy human body.

Results and Discussion

A cooled CCD camera operated at -120°C with slow scanning mode read-out was used with a specially designed high-throughput lens system. The camera was placed in a light-tight room in complete darkness (schematic illustration of the experimental setup is shown in Fig. 1A). Five healthy male volunteers, in their 20's, were subjected to normal light-dark conditions and allowed to sleep from 0:00–7:00. On the days of photon imaging, volunteers were kept in a room (400 lux) adjacent to the dark room. For imaging purposes, the body surface was wiped and the subject was left 15 minutes in the dark room for dark adaptation, after which the naked subject in sitting position was exposed for 20 minutes to the CCD camera. Measurements were carried out in every 3 hours from 10:00 to 22:00 and continued for 3 days. Just before and after the measurements, the surface body (thermography) and oral temperature were taken. Saliva was also collected after the photon measurements for the analysis of cortisol level as a biomarker of endogenous circadian rhythms. Temporal variation of photon emission intensity was calculated from image data with extraction of the face and body intensity.

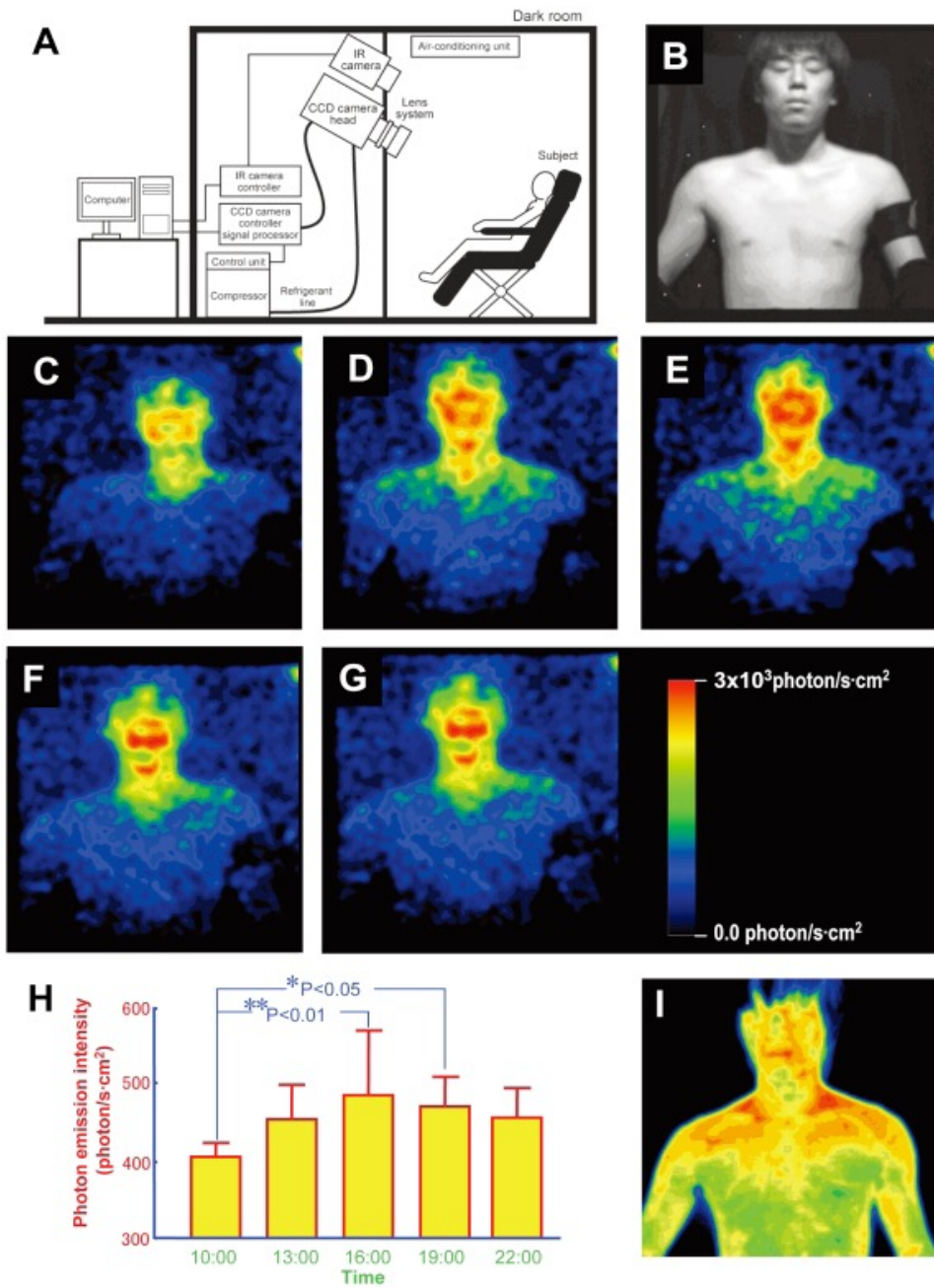


Figure 1 A. Schematic illustration of experimental setup. B–F. Images of ultraweak photon emission from human body. B. Image

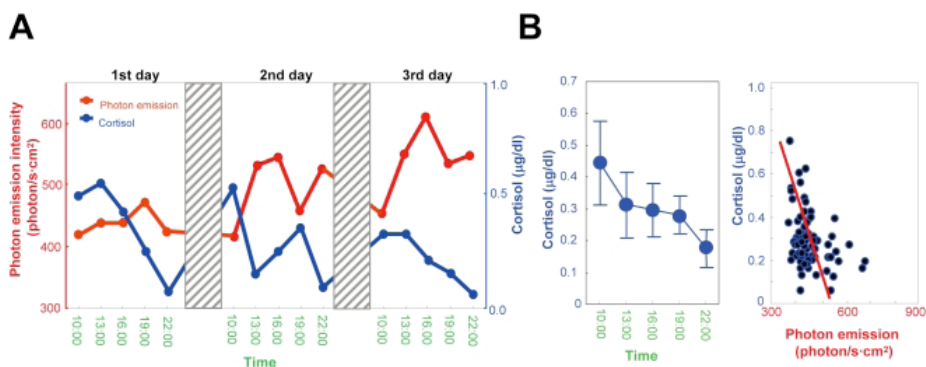


Figure 2

A. Comparison of temporal variation of biophoton emission intensity and cortisol concentration in saliva observed through 3 days. Shaded regions indicate sleeping time. The subject is the one of Fig. 1B–G.

B. Daily change of cortisol secretion (left; $n = 15$, $\text{Mean} \pm \text{SD}$) and its correlation with photon emission intensity (right). A negative correlation was found ($r = -0.3074$, $P < 0.002$).

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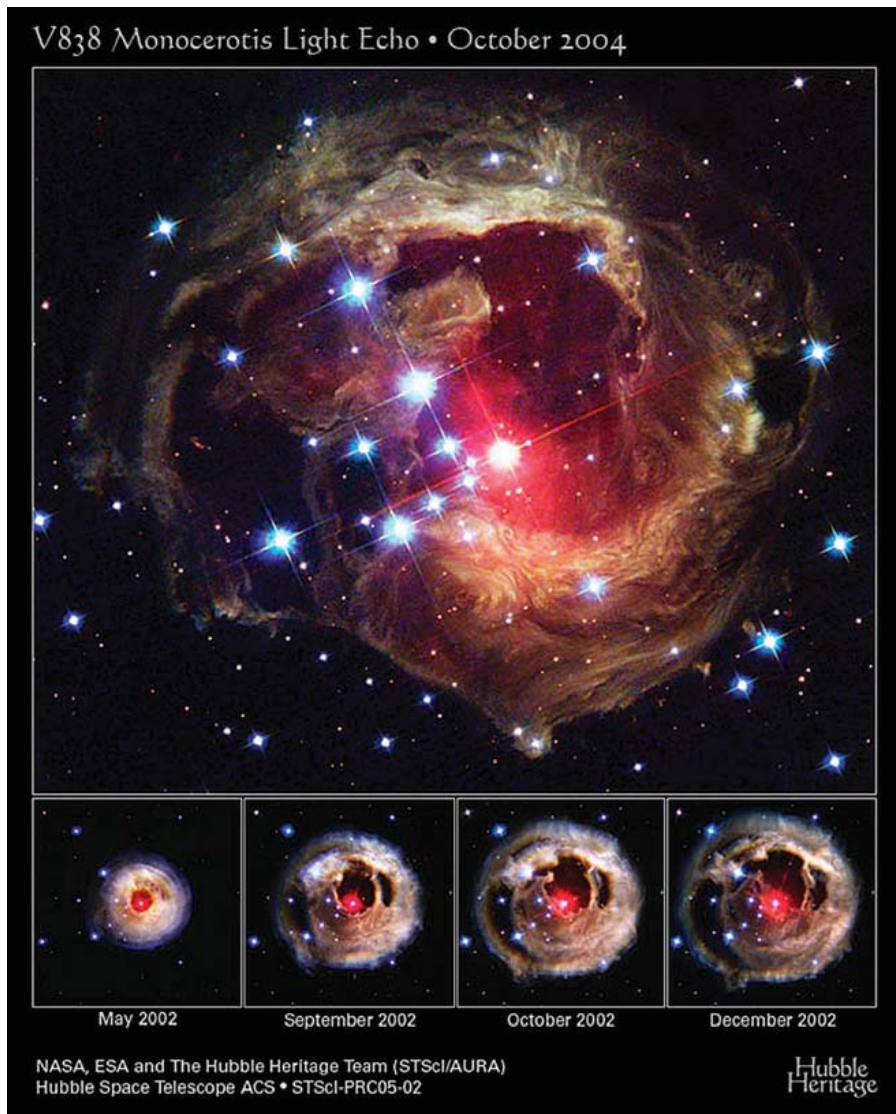
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In order to get closer to the truth, we should refer to what is already known, but not only from distant history. ... It has been established, for example, that *Homo sapiens* and Neanderthal man strode the Earth at the same time and were in that sense neighbours. This is a very important fact, but its implications have not yet been fully studied. According to archaeology and anthropology, it is known that these prehistoric ancestors of man had the same anatomical structure and shared habits as well. But whereas one of them used to lay flowers on the graves of his loved ones in their tribute, the other did not know about this ritual. All the same, they used to live as good neighbours ...

It's time for us too to live in peace and harmony, with respect for each other and with dignity, recognising others' identity, past and present. Mankind needs to find ways for cooperation and co-existence to celebrate the past, to live with happiness in this present, to create the brighter and safer future, and **dialogue** is the one and the only way towards that brighter future. In that manner and with those principles, this work will open wide the doors of the world of future, a new world full of light which needs new ways of understanding, relating and

communicating among people from all walks of life, where everyone can freely say to each other, ' What a wonderful world, welcome to my world my dear friend..."



Space Phenomenon Imitates Art in Universe's Version of van Gogh. Hubble telescope,
Echo of Light Star V 838.
NASA





Bio-energy: Part 1



Chapter 1

Abstract

- No matter how unusual they seem in time and space, how miniature or grandiose they seem from our perspective and perception of understanding and observation, science has already unwillingly started to examine ‘the secrets and mysteries’ of the unknown, and therefore to throw real light and give a picture of their truthfulness, making them a reality in our day-to-day life. By initiating their very existence, they give answers to the constantly asked question — why?
- Some experiments in physics have been conducted in which photons have been let through openings and the light reflected on a screen behind those openings. When light is let through one opening, it can be seen on the screen. When light is let through two openings, dark and light stripes can be seen on the screen. The conclusion is that, if the beams overlapped with their minimums of reflection, they get neutralised and dark lines are created. Another explanation is that when the maximums of the waves overlap, they intensify and bright lines are created. In the same experiment, when one of the openings was closed, instead of light on the screen (as in the first experiments with one opening), bright and dark stripes appeared on the screen. In this case one would expect, as in the first case when the light was let through one opening, to see only light on the screen — not bright and dark stripes as happened when light was let through two openings. It is still unknown how the photons knew where the minimums and maximums would be, that is to say, their maximum

intensifications and minimum neutralisation of the light beams when they travel through only one opening. In order to realise that, they should be let through the two openings. The experiment with photons raises another subject for discussion, that there is a basic kind of memorising capability or connection at the level of subphotonic particles, as well as in other related energies not known to us at this stage of our knowledge. This connection and the consciousness of the particles as well as of the very energy — that is to say, that intelligence is a prerequisite for the creativity of bio-energy — is discussed later.

- Cheng Chin (University of Chicago, Illinois, USA), as well as 10 other scientists, describes a new state of matter in the research magazine *Nature* (March 16, 2006). Cooling caesium atoms in a state of vacuum, they observed that, when three atoms were brought together, they created a new state of matter, Ephime's state, which is similar to a symbol of a ring used by the noble family of Borromeo from Milan, Italy, in the fifteenth century. When one of the atoms was selected, the other two followed; if one was thrown away, all three would fall. According to the scientists, this is an exceptional discovery because it leads to arranging three or more atoms and the like; that is to say, it leads to a new state of matter — to a new understanding of relations in the quantum world, initiating “the magic that number three carries”, according to Cheng.
- In the scientific journal *Science* (December 13, 2005), Sean Polyn (Pennsylvania State University at University Park, Pennsylvania, USA) and his colleagues say that mind-reading is like a mental time journey. The scientists analysed some brain scans of individuals who had previously been shown images of a various nature. At their revising, the individual's brain returned to the same state it was in during the process of memorisation, a few seconds before the individual gave an answer to the question about the image seen. With that, the scientists were even able to guess, according to the brain state, which image the people were remembering ...
- In 1999, at Berkeley University (California, USA), scientists managed to recreate an image of a landscape that a cat had seen before, by computer reading of wires connected to 177 brain points in the sphere of visual area.
- Recently, scientists using functional magnetic resonance imaging (MRI) have been able to say not only which image people had seen before, but also which image they were concentrating on and which image they had seen previously but not consciously remembered.
- Two independent teams of scientists have published a finding in *Nature Neuroscience* (May 2005) about the latest practical evidence on the possibility of mind-reading. One team was led by Yukiyasu Kamitani (ATR Computational Neuroscience Laboratories, Kyoto, Japan) and Frank Tong (Princeton University, Princeton, New Jersey, USA); the other team by

John-Dylan Haynes and Geraint Rees at University College (London, UK). Kamitani and Tong explained that subjects in the experiment were directed to see one of two images, and not to pay any attention to the other. Analysing the brain state, the scientists could describe the second image even though it had been consciously unnoticed by the subjects.

- Haynes and Rees have written that they are able to tell what people have seen better than the people themselves. They have created a computer program that, on the basis of the memorised state of consciousness (the brain state), is able to tell what the subjects saw. Two images were very quickly presented one after another, and the subjects asked to say what they represented. The subjects talked about the second image, since they could not adequately memorise the first one because of the speed. The computer program was able, on the basis of analysed and memorised state processed in consciousness, to precisely recreate the first image as well, even though the subjects neither memorised it consciously nor paid attention to it. The authors claim that this invention will show new pathways for future studies and discoveries in this field, as well as in understanding the differences between consciousness and subconsciousness.
- Through such advances it becomes clearer how bio-energy helps organisms and individuals, as well as collectives, build their own destinies and paths of evolution with various creations. Namely, emotions and feelings are the right language of the universe — that is to say, the vocabulary and language of the inner world of DNA — and how through them people learn about the world and build their reality with their own eyes. So it becomes clearer how the emotion of love is the 'language' of this world; in this case, a language of organisms' DNA and the like. It is known, on the basis of some radiation from DNA, that organisms (such as mice) select their partners and, with that, their heredity. In a way, they also make a selection and choose their partners on the basis of their feelings, especially those that match most with their own DNA, so that they can have a healthy heredity. This is nothing but their creativity; in other words, the creativity of DNA or, more precisely, the creativity of bio-energy itself. This can be found in other organisms also, including Man. If people were not burdened so much with material things, and if they tended to temperance at every level (all religions preach temperance in diet with fasting, spiritual and physical exercises, prayers, meditations and so on), then they would get to know themselves better. They would get to know their real needs, so that — as a complete physical, intellectual and spiritual being — they would become more aware of their needs and the needs of others at a physical, intellectual and spiritual level and development, as well as the needs of their heredity. As such, the development of Man would also be better.
- Having in mind the discovery, in the field of quantum physics, that scientists have succeeded in moving an object just by watching it, a step

forward is being made towards justified cooperation between religious thought and scientific thought and teachings. This also justifies, in a scientific way, the power of the prayer. We all know that prayers seem quiet on the outside, but are really screams inside the individual. That is why we pray with the inside of the organism in peace but in the presence of a 'spiritual storm'. In that way only, can we move our inner self and get adequate vibrations of cells, so that the information can be carried at this level and in such a form to where it is meant to go. Another organism detects and decodes the vibrations and the information as they are — generally unchanged — and, on that basis, it reacts more or less correctly. That is the real language of the universe. Some people have a greater ability than others to communicate at this level. This underscores the importance of preserving and practising religious traditions, especially prayer/meditation. If the function system of the state, or the world, is a construction/skeleton of the state/collective at a certain space and time, with mankind as a universal brotherhood, then religions are the soul of mankind.

- Altruism is one of Man's main characteristics. The theory of evolution is restricted and it does not recognise such a 'gracious' feature by anyone in the whole process. It teaches that only the strongest continue the evolution; that is, those with strong and mighty evolutionary reproductive organs and strong self-preserving systems and organs. There is no place for a sacrifice or self-sacrifice such as charity in the evolutionary process. From a bio-energetic aspect, this is not the case. Within existential frames evolution is a combination of creation and evolution. The latest scientific discoveries in this field, for the time being, are in favour of altruism: it exists and is a part of us in all evolution. A gene of altruism has been found recently in the simple micro-organism *Volvox*.
- Scientists are perhaps now on the way to discover the mental time journey, or how images from the future are created. According to Karl Szpunar (Washington University, St Louis, USA), a leading author of an experiment in which subjects' brains were examined in different phases of thinking processes — from memorising and recalling past events to future predictions — using functional MRI scanners, thoughts of the future are impossible without the past.
- Recent research by scientists at the University of Utah discovered the so-called Dark Star. In the beginning, after the Big Bang, there were, and still are, Dark Stars, rather massive objects, perhaps up to 200,000 Suns, that cannot be seen with the naked eye. This study speaks in favour of the possible existence of the Dark Universe.
- The central nervous system (CNS), that is to say, the brain, apart from other things, can take the form of a kind of time machine. Here, memories imply time, so we have compression of time in the brain.



Chapter 2

Bio-energetic reactions, interactions and phenomena

Note

The phenomena mentioned in this text (as well as other similar unmentioned phenomena) — the results of bio-energetic (quantum-energy electromagnetic) interactions in nature — were and are well known on our planet among different people and from different cultures and faiths, and from different periods of time and therefore different evolution cycles, and are depicted by all of them nearly identically, as if they were nearly the same phenomena. In this publication they are explained from a bio energetic aspect using the latest discoveries and achievements in the modern spheres of science, especially quantum physics, astronomy, cosmology, and so on. These explanations are prone to changes because scientific thought, together with technology and Man's understanding, has been developing and expanding. Considering the very pragmatism of scientific thought as opposed to the dogmatism of religion — which, as extreme polarities, are of great importance to humankind, providing an enormous evolutionary potential — it must be pointed out that the phenomena and theoretical explanations, as well as the sound assumptions, should be accepted with a certain amount of reservation. It must be pointed out also that, with the development of technology and scientific thought as well as religious thought of humankind, the consciousness and spirituality of people will be raised, for and about themselves and everything else. Doors will be opened for better development of all kinds of science. Bio-energy will contribute to that, finding its place as a live science incorporated visibly and invisibly in all aspects and fields of our daily life, and that change will open

doors for cooperation and the progress of humankind and all kinds everywhere, on each and every level and in every space and time for progress and good.



A conference of physicists from all over the world was held in New York in 1947. They discussed hypotheses about two mesons (subatomic particles) and an interaction between neutrons that was the basis for creation of Quantum Electrodynamics. Since then, important experiments and scientific discoveries have been made.

In 1948, Maria Goeppert-Mayer (USA) suggested that protons and neutrons in the atomic nucleus take the same orbits as the electrons in the atomic mantle. Independently of this, the same idea was also formulated by Johannes Hans Daniel Jensen (Germany). In 1953, Donald Glaser (USA) published for the first time a photograph showing an interaction of subatomic particles that was carried out in a 'bubbly chamber'.

In 1961, Robert Hofstadter (USA) discovered that: protons and neutrons have a structure, they consist of a central part that is positive and is wrapped with two coatings made from mesons, and they belong to the group of quarks subatomic particles, composed of their own parts. There were six types of different quarks particles, which, grouped in three, produced more complex subatomic particles — mesons and baryons — from which one of the neutron coatings was negative, so holding the particle neutral. From astronomy, we already know that there are neutron stars, and one in ten (or similar) of those neutron stars can be quark stars.

In 1963, Eugene Paul Wigner, Maria Goeppert-Mayer and J. D. Jensen were awarded a Nobel Prize for Physics: Wigner for mechanics of proton-neutron interactions; Mayer and Jensen for their theory of nuclear structure.

In 1965, Moo Young Han and Yoichiro Nambu presented the quarks concept that was later called colour. In September 1972, Murray Gell- Mann presented the beginning of Quantum Chromo Dynamics (QCD), a theory that connects quarks subatomic particles with colour forces, together with three other separate types of quarks. In fact, with further experiments it has been proved that there are three basic colours — green, red and blue — that is to say, such types of quarks. The existing colours are their combinations, and together they give the white light. The strength of colours is carried by gluons subatomic particles, which work by building quarks into protons, at which the mighty force acts as a by-product — a fundamental force at short lengths, which has an

effect on quarks and is carried by gluons. In a way, it provides compactness of the atomic nucleus. Opposite to this mighty force there is a weak force (1, carried by W^+ and W^- particles) that works on quarks and electrons, transforming the basic particles. It is called a cosmic alchemist. The weak force 2 affects the reactions of star disintegration in the so-called exploding stars, and also in the disintegration of the nucleus, carried by W^0 particles.

David Politzer (from Harvard University, who shared the 2004 Nobel Prize for Physics with David Gross and Frank Wilczek for their discovery of asymptotic freedom in QCD), described in an article published in 1973 the phenomenon of asymptotic freedom: the closer quarks are to each other, the weaker the strong interaction, given by the colour charge, will be between them. When quarks are in extreme proximity, the nuclear force between them is so weak that they behave almost like free particles. That is, when forces such as gravitation or electromagnetism (electricity) came closer to each other, their force of mutual action increased. In quarks, the opposite was the case. When they came closer, they affected each other less and less, so that in the proton they are nearly free and are able to move, but as they move apart their mutual connection increases. So they are rather firmly tied with the proton, making it compact.

In 1959, a theory of nuclear democracy was postulated by Geoffrey Chew. It was about an x-particle; that is to say, a particle that can, by its own will, bring strength to other particles or to be a part of other subatomic particles by its own will.

The study of elementary particles encompasses all those that comprise the atom: the electron in the atomic shell, and both the proton and neutron in the atomic nucleus. Later, the positron was discovered in the atomic nucleus and it was defined as an antiparticle of the electron with a different charge, in other words it is electric positive (+) in contrast to the electron, which is electric negative (-). Both have almost the same mass.

The electron, the proton and neutron particles are considered stable, while the other particles are considered unstable. Until now, over 200 subatomic particles, arranged in several groups, have been known. The earlier mentioned quarks particles, to which six types belong, form groups of three and produce more complex subatomic particles, called mesons and baryons, to which both protons and neutrons belong. They belong to the hadrons group. They differ in their spin (rotation around the centre of rotation): mesons have a complete number or zero spin, while baryons have a partial integral spin. According to the emptiness in their form, and thus in their characteristics, the omega-particle has been predicted, as well as others, by this principle. The hadrons are a sensible to strong fundamental force.

Another group of subatomic particles consists of leptons, which comprise the light particles potosi electron, muon (with a mass 200 times bigger than the electron), tau (with a mass 3500 times bigger than the electron) and three types of neutrino particles. They are part of the weak fundamental force.

The third group of subatomic particles are bosons, that is to say, gauge bosons. They comprise photons, gluon, w-particle, z-particle and graviton. They take part in gravitation as a fundamental force — as quantum particles — and they are carriers of light and gravitational force. Without them, the 'force' in gravitation force would not exist. In this context, we should mention the temporary or virtual particles that come in pairs as a particle and an antiparticle. They are created by nothing and emerge from nowhere. They are nullified and are constantly created by nothing; that is to say, by creating energy with quantum fluctuation, empty space creates them as well. 'Zero point energy' or 'phantom energy' may be a part of the dark energy and/or light.

As well as the aforementioned particles, their antiparticles have been discovered together with a pion from the meson group, which could instantly transform into proton, antineutron or neutron and similar. Later, a duality of the quant and the electron was established, which apparently, at certain conditions, react as a particle or as a wave by itself.

Intensive search nowadays, 2010/ 2011 stretching towards 2012, are underway for the clarification of so called **Gods' particle, bosson i.e. Higgs boson**, which is sort of **magic missing link** in transferring energy particles in to the mass one. In other words without it mass/ material world would not exist as was described in this publication.

World Science

Long-sought Higgs particle probably found, scientists say

July 4, 2012

Courtesy of the Weizmann
Institute of Science, CERN
and World Science staff

The long journey to detect an elementary particle known as Higgs boson, which started a quarter of a century ago, might finally have reached its goal, physicists say.

Scientists at the European Laboratory for Particle Physics, CERN, near Geneva announced on Wednesday that a particle fitting the correct description had been found, though there remains the unlikely possibility it is a misidentification.

"We have reached a milestone in our understanding of nature," CERN director general Rolf Heuer said. "The discovery of a particle

consistent with the Higgs boson opens the way to more detailed studies... which will pin down the new particle's properties, and is likely to shed light on other mysteries of our universe," he added.

The Higgs boson is the final building block that has been missing from the "Standard Model," a working picture of nature that mainstream physicists rely on and that describes the structure of matter in the universe. The Higgs boson combines two forces of nature and indicates that they are, in fact, different aspects of a more fundamental force. The particle is also responsible for the existence of mass in elementary particles—the quality we feel as weight.

Physicists have been hoping for an overarching theory of nature that can unify the four basic forces known in the universe: the weak force responsible for radioactivity; the electromagnetic force; the strong force responsible for the existence of protons and neutrons, the core of the atom; and gravitation.

The first step in the journey to unify the forces would be completed with the discovery of the Higgs particle: the union of two elementary forces – the electromagnetic and weak force, to become the "electroweak" force. One aspect of the Higgs boson, named after the Scottish physicist Peter Higgs, manifests itself in the giving of mass to the carriers of the weak force, known as "W" and "Z" particles.

In the effort to discover the Higgs boson, unify the fundamental forces and understand the origin of mass in the universe, scientists built the world's largest machine. It's a particle accelerator nestled in a 27-km- (17 miles-) long circular tunnel, 100 meters or yards beneath the border between France and Switzerland, in the European particle physics laboratory, CERN, near Geneva.

This accelerator, the Large Hadron Collider, speeds up beams of protons, subatomic particles in the core of the atom, up to 99.999998 percent the speed of light. According to Einstein's theory of relativity, this increases their mass by 7,500 times. The accelerator aims the beams straight at each other, causing collisions that release so much energy, the protons themselves explode. For much less than the blink of an eye, conditions similar to those that existed in the universe in its first fraction of a second are found in the accelerator.

As a result, particles of matter are turned into energy, in accordance with Albert Einstein's famous equation describing the conversion of matter into energy: $E=mc^2$. The system then cools back down, and energy turns back into particles.

The collisions produce energetic particles, some of which exist for extremely short periods of time. The only way to discern their existence is to identify the footprints they leave behind. For this purpose, a varie-

ty of particle detectors were developed, each optimized for capturing particular types of particles.

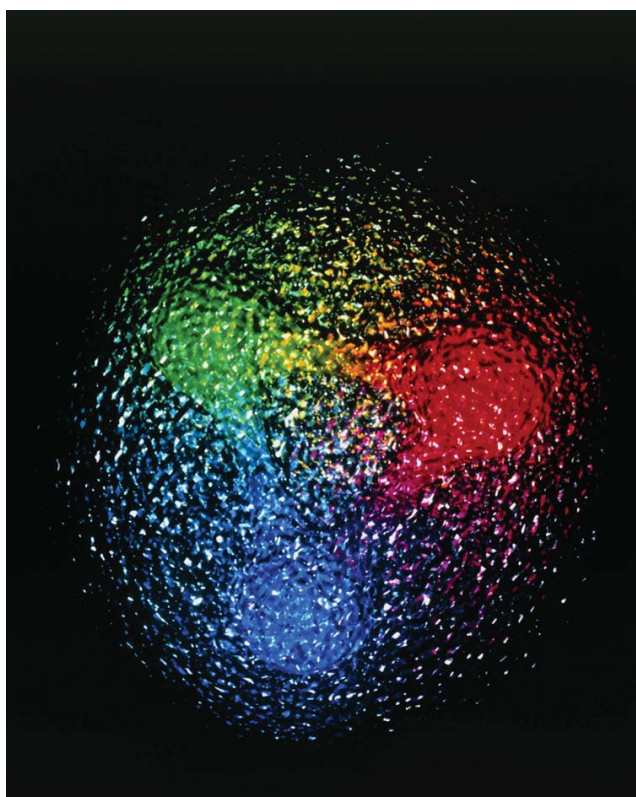
The scientists analyzed data from a thousand trillion proton collisions. In these, Higgs bosons are expected to arise along with many other similar particles. Evidence to suggest the existence of the Higgs arises through searches for anomalies in the collected data in comparison with the expected data if such a particle does not exist. This search focuses on the estimated mass of the particle: 126 trillion electron volts (Gev), the units of mass used for atomic-scale particles. When the scientists do manage to find such anomalies, they must then rule out the possibility that it is due to statistical fluctuation.

The calculations carried out by scientists in recent weeks have revealed, with a high degree of statistical significance, a new particle with a mass similar to the expected mass of the Higgs, the researchers announced. Their wording is purposely cautious, leaving room for the possibility that a new particle other than the Higgs can be found within this mass range.

The probability that this is, indeed, another particle, is quite low, they added, but if that does turn out to be the case that could point to some interesting scientific possibilities in its own right. "We stated last year that in 2012 we would either find a new Higgs-like particle or exclude the existence of the Standard Model Higgs. With all the necessary caution, it looks to me that we are at a branching point," said CERN Research Director Sergio Bertolucci.

"This is the biggest day of my life," said physicist Eilam Gross of the Weizmann Institute of Science in Rehovot, Israel, a senior member of the international scientific team involved in the research. "I have been searching for the Higgs since I was a student in the 1980's. Even after 25 years, it still came as a surprise. No matter what you call it – we are no longer searching for the Higgs but measuring its properties."

From all of this, it is obvious that, in the basis of all matter, there are subatomic particles that have their own duality or are unstable, transferring from one into another particle or into wave energy, or vice versa. It is obvious that everything around us, even inside us, is a movement, an energy and a transformation of that energy. That will confirm the transcendental, omnipotence of the energy, and, in this context, the bio-energy and the possible existence of other dimensions made of that same energy. This can be rounded off even more by the existence of fundamental forces of long and short routes, the earlier mentioned gravitation, electromagnetism, the strong and weak force by which the compactness of the universe has been...



Subatomic particles: model of quarks.

Internal structure of the Large Hadron Collider, European Organization for Nuclear Research (CERN), Europe.

Inset Visualisation of the quark structure of a proton.

PhotoLibrary

preserved (along with that of ourselves). It means that every moment we are exposed to some kind of radiation, an influence of some forces upon us, while, on the other hand, we also radiate and influence our surroundings. Thus, there is also a quantum energetic-electromagnetic field around us.

It has already been proven that each human cell is a weak source of radiation and is in an adaptable equilibrium-cooperation with its surroundings. On the basis of this, almost all measurements, therapies or investigations in medicine, for example, EEG (monitoring of the heart) or electro encephalograms (investigation of brain activity such as brain electromagnetic waves for diagnostic purposes) as well as many others are possible. This quantum-electromagnetic balance/equilibrium can be impaired by numerous things that could eventually have an effect on the function of the cells and, with that, of the organs, systems and the organism as a whole. Apart from inner causes that can upset the balance of cell function, there are various causes of different

aetiology. As is obvious from the above, energy is the basis of everything, so too is the radiation from our surroundings. If it is too big, it can impair the functions of cells, getting into interaction with our cell-body energy or with our QEEMR, or bio-energy.

Today, various forms of radiation exist, with the number continually increasing, so that we can freely say that we live in a time of an overpolluted atmosphere, nature and environment. Various electromagnetic waves from our close surroundings such as television sets, radios, microwaves, heaters and other appliances, as well as radiations from various experiments, nuclear tests, telecommunications and so on, are the most present polluters. They all contribute to disruption of the energetic layer around people, as well as to their vitality. Sooner or later, although people are strong and adaptable beings, their state of health will fail. We can make a correlation with Earth's sphere and ozone layer, which, as a bio-energetic field of the planet or the planetary aura, using the micro and macrocosm principle, has been increasingly destroyed by various manmade pollutants. Since Earth's atmosphere has been violated by various influences, we expect that our planet will fall ill, so to speak. This has been proved in practice and in everyday life — for example, the ozone holes in the atmosphere, the greenhouse effect, climate change (droughts, floods, strong winds, hurricanes with whirlwinds), volcanoes, earthquakes and so on. Unfortunately, it is humankind that is suffering most.

Just as we emit and receive radiation from all around us, so our planet both affects and is affected by other celestial bodies, as well as other sources, visible or not, known or not. On the other hand, the Earth also has its own surface radiation that affects us. Since everything has its own radiation, and since everything has different structure and density, everything on and under the surface, as well as us, will have different radiation on certain places, while the sum of global radiation will be the result of that whole radiation. Thus, various minerals will have their own frequency of vibration and radiation; or separate places rich with various ores, metals and similar will emit various radiations in quality and quantity. Depending on whether they are having a pleasant and good effect, or the opposite, they are + or – for us with resonance with our own radiation. So they can be harmless or harmful.

As well as these radiations, our planet emits its own radiations originated by its polarity. The existence of the northern and southern poles (+ and –) provides the existence of electromagnetic forces and radiations that exist between and around the poles. They also constantly affect its surroundings, including ourselves. The compass proves the existence of such an electromagnetic radiation and electromagnetic field, which is identical everywhere on our planet. Changes of the poles, from and by influence of different things and from different aetiology, bring changes in the electromagnetic fields. Electromagnetic lines (for example, Hartman lines or Curry lines) — if they mutually affect various radiations from the earth, for example minerals, ores, underground running or non-running waters, various caverns in the surface and so on by themselves or combined with others — can

violate, or not, our energetic field and affect the work of our cells, changing their polarity and their function, resulting in various psychic and bodily abnormalities in a + or – sense. This justifies the existence of good and bad energetic places on the planet. The fact that we cannot detect them does not preclude the reality of their existence. It is worth mentioning that, although we cannot hear or see various ultrasounds or infra colours, it does not mean that they do not exist; in other words, it is our handicap that we cannot detect them. A great number of animals can feel them and can react adequately. Therefore, it is possible that there are gifted people who, thanks to their abilities, are more capable than others of detecting them. It is of great benefit for humankind to have such gifted individuals, and it is imperative to use their ability for our own good.



Source of animals' magnetic sense found



Posted on July 10, 2012 - 06:43 by Emma Woollacott

Scientists say they've identified 'internal compass needles' in the noses of rainbow trout, helping explain the way many creatures can navigate using the Earth's magnetic field.

Neuroscientists recently discovered '[GPS maps](#)' in pigeons' brains, explaining how information on magnetism is encoded in the brain - but until now, nobody's ever been able to

pinpoint the cells that detect the magnetic field and convert the information into nerve impulses.

"The field penetrates the whole organism, so such cells could be located almost anywhere, making them hard to identify," says University of Munich geophysicist Michael Winklhofer, whose team has finally identified magnetosensory cells in the olfactory epithelium of the trout.

The researchers first used enzymes to break down the sensory epithelium into single cells, which were then stimulated with an artificial, rotating magnetic field.

The scientists were then able to identify and collect single magnetoresponsive cells; and, to their surprise, found they were more strongly magnetic than previously thought.

The findings also explain why high-tension cables perturb animals' magnetic sense.

The cells sense the field by means of micrometer-sized inclusions composed of magnetic crystals, probably made of magnetite. These inclusions are coupled to the cell membrane, changing the electrical potential across the membrane when the crystals realign in response to a change in the ambient magnetic field.

"This explains why low-frequency magnetic fields generated by powerlines disrupt navigation relative to the geomagnetic field and may induce other physiological effects," says Winklhofer.

The findings raise the question of whether [human cells](#) are capable of forming magnetite and if so, how much. It's already been discovered that human retinas [contain the same protein](#) that senses magnetism in *drosophila*.

If the answer is yes, it could perhaps explain the so-called 'electrosmog' which many people claim to be able to feel.

The discovery of underground radiation belongs to the domain of an alternative branch of science, housed in the corner of 'non-scientific trash' under the name of para-phenomena and the like; that is to say, in the domain of radiesthesia, geo-biology (more precisely, dowsing), or Feng Shui in China, which is different from radiesthesia. To modern scientific thought, the very notion of non-scientific or para-phenomena has no logic or sense. That is why there is a need for a new science such as bioenergy that will scientifically explain, systemise and use phenomena such as geo-biology and others in our everyday practice for common benefit. More than that, and already proved, there are over and around our planet different radiations — varying according to frequency, intensity and type of electromagnetic radiations and so on, (even on account of people's health) — that intertwine and make a complex net of invisible radiations in, over, under and around the Earth so our planet is like a highly energised ball. These invisible, for us, radiations with various geometrical patterns and shapes can also be, as well as other things, carriers of other energies, pieces of information and so on, where each wave has a precisely defined point of existence in time and space, not only as positive but also as negative, in past, present and future. At the same time, as well as all this,

the interactive memorising abilities of the radiations provides a creation and an existence of the same kind of fields and, because of the intertwining of these fields (radiations), there is a possibility of multidimensional secular reality existence around us and inside us, at which the transcendence of light is a foundation of all. Dark energy and dark matter, as well as other energies and matter unknown at this point to us, have a part in all this but our limited knowledge prevents us from doing little more than speculate.



Can people sense Earth's magnetic field?

Posted on June 22, 2011 - 08:34 by Emma Woollacott

People may be able to 'see' magnetic fields just as migrating birds do - or, at any rate, have once had the ability to do so in the past.



New research from the University of Massachusetts Medical School has shown that a protein expressed in the human retina, CRY2, can sense magnetic fields when implanted into *Drosophila*.

In many migratory animals, such as birds and sea turtles, the ability to sense the earth's magnetic field has been linked to light-sensitive chemical reactions involving the flavoprotein cryptochrome (CRY).

Previous work by the team had already established that, in the fruit fly *Drosophila*, the cryptochrome protein found in their retinas could function as a light-dependent magnetic sensor.

To test whether the human cryptochrome 2 protein (hCRY2) could do the same thing, professor Steven Reppert and post-doctoral fellow Robert Gegear created a transgenic *Drosophila* model that had the human version rather than its own.

And they found that the flies were still able to sense and respond to a magnetic field generated by an electric coil, in the same light-dependent way.

While human beings clearly aren't consciously aware of magnetic fields, the results do imply that we're sensing them at some level all the same. Reppert and his team say they'd like to carry out more research.

Planet Earth, with its circular movements, is generating a bio-energy field. Just as electrons are orbiting around the nucleus of atoms to generate an electromagnetic field that we are using as electricity, so our planet and galaxies are doing the same over and over again, generating a field and in the same time filling this highly generated field with some sort of bioholographic time information about events in exactly definite locations, so the next time Earth is orbiting that space there are attractions of some kind of energies detectable by some people or instruments. In that sense, all the traditional and other happenings, religious and state memorials that celebrate events from the past at particular times have their scientific grounds for explanation and relevance. Salinations and movements of the oceans are making this statement even more possible, giving it more scientific weight. This is important for the future, when more sophisticated knowledge and technology will arrive that makes time travel/shift possible, not in the manner of science fiction, but in reality with an accent on the transfer of consciousness. Here, science and religion are going hand in hand.

As was explained earlier, and well documented by science, rotation of electrically charged particles is producing electromagnetic fields, so we are exploring this principle and are using the electricity gained in same manner from turbines. Our planet, as a specially charged object on a macro scale, is also generating electromagnetic and quantum fields that are the sum of all other electromagnetics and quantum radiations on Earth. So it is the same for individuals and for mankind collectively. All objects have a specific unique radiation, so every individual has the same unique energetic identity on that

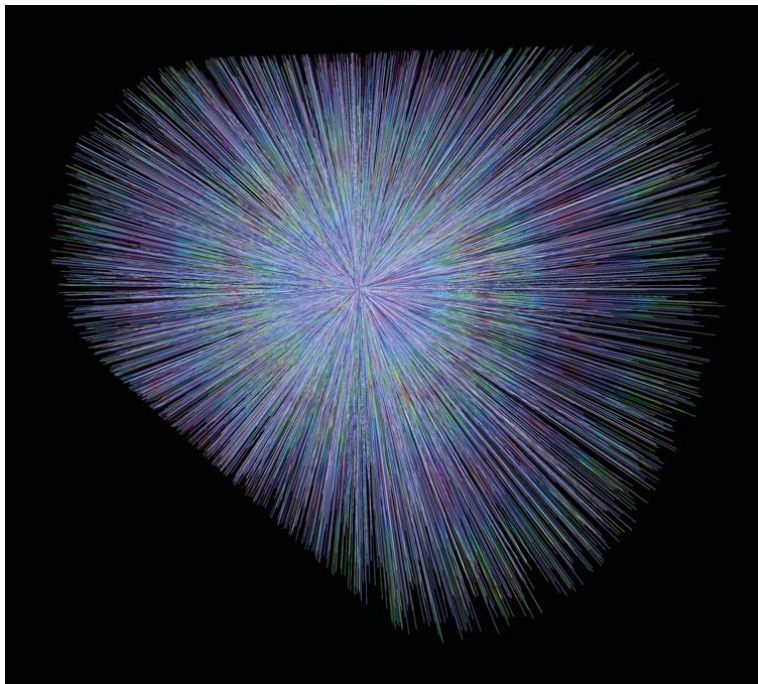
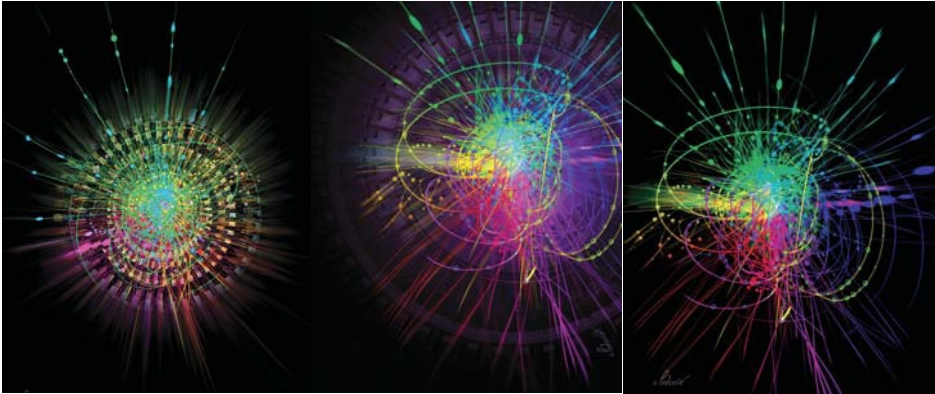
level. Each of us belongs to various cultures and religions, all of them are a sum of all energies from us. On that basis, it is possible for some energetic fields to be formed as energetic bio-energetic morphogenetic realities or dimensions of existence. All belief systems and religious teachings are right from this aspect. In that context, our galaxy and even our universe are akin to big rotating black holes with information of every kind in energetic forms, self-programming to build something new — a new world, universe or similar — where energetic information gained from previous realms is the basis for building new energetic realities. Building the new is a never-ending process.

According to modern scientific thought, all creations in the universe have been built by the same substance and the same regularities. On a basic level we also are a vibration, a rotation, energy in a materialised, crystallised form, or a pure energy. If, no matter how, an adequate resonance of the energetic vibrations could be achieved with the source of radiation, about which information is required, and if that could be detached from the subconsciousness, that is to say, made visible or the wanted information could consciously be understood (everything around us and in us emits a certain QEEMR-form of radiation that at a subconscious level we might be aware of, but we are handicapped by our impotence to experience it at a conscious level), then the individual will become conscious about the thing he or she is seeking information for. Thus the detection of underground and other radiations would be scientifically explainable and possible. The detection would be followed by a visible or invisible outer change of the individual detector's consciousness, which indicates simultaneous physiological change in the work of the cells in the CNS and the body of the individual. This could be registered by adequate instruments that follow the function of the CNS and the body as well, or it could be impossible considering the subtlety of the reaction, especially if it is reduced to pure automatism in the case of gifted and experienced people. It means that science should invent more subtle instruments to detect psychological reaction. Every other conclusion hastily brought about the absence of detection ability in ourselves for various radiations from the environment will have a negative effect. Some people can detect while others cannot; some people can detect more, some people less, and the like. Exploiting the field of radiation by using more refined instruments would clarify many things.

Modern science has observed quanti transforming from a wave to a particle, and transforming from material to a wave form of existence. The principle of transcendence of these particles, as with many other things in quantum mechanics, is not known, hence the quantum world is a world unto and of itself. Transcendence, transferring from a particle into a wave and vice versa, is a characteristic not only of photons but also of other particles such as the electron, including the virtual particles. This has been confirmed and examined by modern science. Theories about light quantum emission and the wave-particle duality or transfer date back to Einstein and his theory of general relativity, Max Plank, Niels Bohr, the Frank-Hertz experiments from 1912, Karl Compton from Princeton University (who won the Nobel Prize for Physics in 1912), Owen Richardson (who won in 1928), David J. Bohm and, especially,

Louis de Broglie (who won in 1929), famous for his statement that all matter (any object) has a wavelike nature, that is, a wave-particle duality.

This opens new, wide, and until now unknown and unbelievable avenues for theoretical and practical application of the findings, and this text will make it more probable and everyday practical for the welfare of all mankind.



Collision of particles.

PhotoLibrary



Chapter 2.1

In 1976, a subatomic particle called charm was discovered, and a subatomic particle resonance was discovered in 1965. In the context of our discussion, it seems that these particles, with their functions and activities, make a sort of team — the subatomic particle charm attracts while the subatomic particle resonance resonates.

During special bodily states, such as meditation or prayer, it can be noted that there is a change in breathing — rapid breathing creates *acidoses* and slower breathing produces *alkalosis*, which cause repolarisation of the cells, primarily in the CNS and more generally in the body — which results in a change in the polarity state of the physical body with indicators such as local or generalised tremors, twitching of the muscles and even fits, as well as changes in the emotive sphere, producing different degrees and types of relaxation, peacefulness, pleasantness and the like. Some individuals have reduced these states of pleasantness to automatism, while others need varying lengths of time to achieve this bodily and spiritual relaxation, which is close to a state of meditation or deep prayer. In this state, the individual is open to receiving and giving away pieces of information and, having in mind our QEEMR component of radiation, that is possible. The photon radiation of DNA in our cells also enables transferring information in three-dimensional form or bio-holograms. Our body, which is in an 'aerial form', while our CNS has a great density of cells, is a prerequisite for an enormous power of resonance, vibration and reception-transmission of QEEMR. Actually, the function of the CNS is nothing but an electric transfer of impulses (information) between cells, its separate centres and the whole body as well, which in fact makes us an electrical conductor. In such a state of meditation or the like, a 'wiringtuning' of receptor-transmitters is first created, followed by a pulling and giving away of QEEMR with the help and via the charm and resonance subatomic particles. After this activity has begun, the required information is received, which individuals become more or

less aware of in their own way. Some people can be completely aware of the received information through a feeling or a notion, message and the like, or the information can be detected in a way known only to the individual. If searching underground waters, radiation, ores and the like is in question, then it can be performed in a special way with the help of a pendulum or various 'hand-held' devices and other aerial objects, both metal and wooden. These means are widely used in radiesthesia or dowsing. In these cases, aerial objects do not take a direct part in the bio-energetics' interaction between the practitioner and the object, but they reflect only at a conscious level, the interaction and give a recognisable answer at a conscious level with yes or no, swaying the pendulum from left to right, or moving the bars or aerial rods, depending on the previous 'arrangement' between them and the practitioner when in this process resonance is achieved. An example of quantum resonance is presented in the photo of this paper. This is the result of a 'route' arranged in advance to enable the practitioner to give a conscious answer. It means that they have nothing to do with the interaction, the interaction itself happens in the CNS or the body of the searcher, on the basis of detecting the radiation of the surroundings. They only help the interaction to become visible.

In another case, an individual who is seeking adequate information can be aware of it and sense the answer in a kind of notion or image. In cases of looking for people, very often the individuals who are doing that ask for a person's personal belonging or a part of an object that has belonged to the person being sought. It helps the seeker to obtain a charm, that is to say, to tune into the QEEMR level with the sought-after object, and at the same time it tries to create a resonance at energetic level. If this is achieved, depending on the gift of the practitioner to create and keep it until it is consciously presented, the practitioner gets the information — in a kind of a notion, three-dimensional image, message, picture or the like — about the event or the sought-after object, after which, with accurate or partly accurate precision, the event, place or what is looked for can be defined. Because these moments are followed by bio-energetic interactions at the energetic (wave-subatomic) level, they last for a short period of time and thus the possibility of precise interpretation of the information, its clearance, transparency, accuracy and the like depends on the practitioner and his or her gift, knowledge and skill. Clairvoyance, precognition and similar psychic phenomena are based on this principle, and they are nothing but a sort of telepathic activity with specific form and reception-transmission of information.

January 5, 2011

Journal's Paper on ESP Expected to Prompt Outrage

By **BENEDICT CAREY**

One of psychology's most respected journals has agreed to publish a paper presenting what its author describes as strong evidence for extrasensory perception, the ability to sense future events.

The decision may delight believers in so-called paranormal events, but it is already mortifying scientists. Advance copies of the paper, to be published this year in *The Journal of Personality and Social Psychology*, have circulated widely among psychological researchers in recent weeks and have generated a mixture of amusement and scorn.

The paper describes nine unusual lab experiments performed over the past decade by its author, Daryl J. Bem, an emeritus professor at Cornell, testing the ability of college students to accurately sense random events, like whether a computer program will flash a photograph on the left or right side of its screen. The studies include more than 1,000 subjects.

Some scientists say the report deserves to be published, in the name of open inquiry; others insist that its acceptance only accentuates fundamental flaws in the evaluation and peer review of research in the social sciences.

"It's craziness, pure craziness. I can't believe a major journal is allowing this work in," Ray Hyman, an emeritus professor of psychology at the University of Oregon and longtime critic of ESP research, said. "I think it's just an embarrassment for the entire field."

The editor of the journal, Charles Judd, a psychologist at the University of Colorado, said the paper went through the journal's regular review process. "Four reviewers made comments on the manuscript," he said, "and these are very trusted people."

All four decided that the paper met the journal's editorial standards, Dr. Judd added, even though "there was no mechanism by which we could understand the results."

But many experts say that is precisely the problem. Claims that defy almost every law of science are by definition extraordinary and thus require extraordinary evidence. Neglecting to take this into account — as conventional social science analyses do — makes many findings look far more significant than they really are, these experts say.

"Several top journals publish results only when these appear to support a hypothesis that is counterintuitive or attention-grabbing," Eric-Jan Wagenmakers, a psychologist at the University of Amsterdam, wrote by e-mail. "But such a hypothesis probably constitutes an extraordinary claim, and it should undergo more scrutiny before it is allowed to enter the field."

Dr. Wagenmakers is co-author of a rebuttal to the ESP paper that is scheduled to appear in the same issue of the journal.

In an interview, Dr. Bem, the author of the original paper and one of the most prominent research psychologists of his generation, said he intended each experiment to mimic a well-known classic study, "only time-reversed."

In one classic memory experiment, for example, participants study 48 words and then divide a subset of 24 of them into categories, like food or animal. The act of categorizing reinforces memory, and on subsequent tests people are more likely to remember the words they practiced than those they did not.

In his version, Dr. Bem gave 100 college students a memory test before they did the categorizing — and found they were significantly more likely to remember words that they practiced later. "The results show that practicing a set of words after the recall test does, in fact, reach back in time to facilitate the recall of those words," the paper concludes.

In another experiment, Dr. Bem had subjects choose which of two curtains on a computer screen hid a photograph; the other curtain hid nothing but a blank screen.

A software program randomly posted a picture behind one curtain or the other — but only after the participant made a choice. Still, the participants beat chance, by 53 percent to 50 percent, at least when the photos being posted were erotic ones. They did not do better than chance on negative or neutral photos.

“What I showed was that unselected subjects could sense the erotic photos,” Dr. Bem said, “but my guess is that if you use more talented people, who are better at this, they could find any of the photos.”

In recent weeks science bloggers, researchers and assorted skeptics have challenged Dr. Bem’s methods and his statistics, with many critiques digging deep into the arcane but important fine points of crunching numbers. (Others question his intentions. “He’s got a great sense of humor,” said Dr. Hyman, of Oregon. “I wouldn’t rule out that this is an elaborate joke.”)

Dr. Bem has generally responded in kind, sometimes accusing critics of misunderstanding his paper, others times of building a strong bias into their own re-evaluations of his data.

In one sense, it is a historically familiar pattern. For more than a century, researchers have conducted hundreds of tests to detect ESP, telekinesis and other such things, and when such studies have surfaced, skeptics have been quick to shoot holes in them.

But in another way, Dr. Bem is far from typical. He is widely respected for his clear, original thinking in social psychology, and some people familiar with the case say his reputation may have played a role in the paper’s acceptance.

Peer review is usually an anonymous process, with authors and reviewers unknown to one another. But all four reviewers of this paper were social psychologists, and all would have known whose work they were checking and would have been responsive to the way it was reasoned.

Perhaps more important, none were topflight statisticians. “The problem was that this paper was treated like any other,” said an editor at the journal, Laura King, a psychologist at the University of Missouri. “And it wasn’t.”

Many statisticians say that conventional social-science techniques for analyzing data make an assumption that is disingenuous and ultimately self-deceiving: that researchers know nothing about the probability of the so-called null hypothesis.

In this case, the null hypothesis would be that ESP does not exist. Refusing to give that hypothesis weight makes no sense, these experts say; if ESP exists, why aren’t people getting rich by reliably predicting the movement of the stock market or the outcome of football games?

Instead, these statisticians prefer a technique called Bayesian analysis, which seeks to determine whether the outcome of a particular experiment “changes the odds that a hypothesis is true,” in the words of Jeffrey N. Rouder, a psychologist at the University of Missouri who, with Richard D. Morey of the University of Groningen in the Netherlands, has also submitted a critique of Dr. Bem’s paper to the journal.

Physics and biology, among other disciplines, overwhelmingly suggest that Dr. Bem’s experiments have not changed those odds, Dr. Rouder said.

So far, at least three efforts to replicate the experiments have failed. But more are in the works, Dr. Bem said, adding, “I have received hundreds of requests for the materials” to conduct studies.

While receiving and transmitting information in this way, the state of an individual’s consciousness changes in a similar way to that which occurs during transcendental meditation or deep prayer, in the course of which the polarity of cells change, followed by a change of the electric and energetic work of the CNS and the body as a whole, or similar to a trance state where the interactions and reactions are of stronger intensity. This state can be reduced to automatism without any outer visible changes. There is a great challenge for science, especially psychiatry to review this phenomenon within us and around us. Our bio-energy and the identification of bio-energy all around enable their existence. Our everyday life also speaks about it. Namely, in some moments we can be aware of the state of a friend, a close relative or a parent, and we feel what he or she feels — pleasure or discomfort, joy or sadness, and the like. This can happen every day and not only with us but also with our surroundings. For example, we can be aware of the state of our pet, a cat or a dog, a tree and the like, and we know if something is wrong with them and they need something. Similarly, our pets can sense whether we feel like playing or not, and they react accordingly. They can also sense something that will happen to us, reading from our aura and similar. All these examples are connected with the existing feeling of telepathy, which has been mystified for a long time even though it is a part of our everyday life. Some people can be more or less conscious of it, but it is a regularity of bio-energetic interactions of attraction and reflection. These energetic forms, which have met and have attracted each other strongly, perform larger energetic communications regardless of time and space. It happens every day with those in love; as a bio-energetic form of existence love is the most powerful form of attraction and creation — after all, it is the one most felt.

Since duality exists on every level and in any form almost as a regularity and law, love has its own opposite dual form in hate; hatred is opposed to love, and vice versa. From the bio-energetic perspective, it is love that opens all doors of the known and unknown. Hatred is love but in the **opposite sense**, and it has come into existence after love, as we shall see. Love is basically the oldest form

of existence, endurance and all creation. Hatred is conditioned by various interests and motives, and all in that sense. Evil is also based on that. In contrast to evil, love is the foundation of progress and goodness. It is the oldest form and is unconditional because it is primary; there was nothing before it and that is why it is eternal and indestructible. Simply, there is nothing it can disintegrate or transfer into, because it is first and primal; bio-energy does not remember and knows nothing else but love, on which basis the creation of the universe and ourselves is founded. In that sense, love is indivisible and, no matter how much it is divided, it will produce love divided into more love, and so on. Greatness and immortality (*grandeur*) lies in this, as well as eternity of love, which by the principle of white light is a common denominator of all creations, a summary to all emotions from which existence originates. The basic and eternal sublimite of all is love. Many books, poems and plays have been written about it, the most classical example being *Romeo and Juliet*. Many films have been made about it. Love is telepathy. In the moment of love, it seems as if two creatures are one: as if they liked, felt and thought the same; as if they both burnt in desire to see each other although they are far away. Talking to each other later, they realise that what one of them felt, the other also felt, and they felt each other's 'call of the soul'. It seems as if after a moment of tuning — through a charm and resonance system or through the QEEMR form of bio-energy existence — a moment of looking for each other, their emotions resonated to the maximum. At one moment it seems as if two beings became one emotional being; as if they achieved a unity at a bio-energetic level and were aware of each other, feeling as if they were a unity regardless of the distance of place and time. They feel as if they were one in infinite time and space. The state of their consciousness is the right indicator of what happens and, at the same time, is a universal language of the universe.

Changes in the bio-energetic field and their interactions with the surroundings provide tuning of the subatomic particles by spinning with a certain colour or quality and a certain intensity in a + or – aspect, resulting in a state that the person detects and feels as an emotion in a positive (+) or negative (–) sense. An individual's 'radiation' is a state of consciousness and represents a part of or a form of its spirituality. The same interaction, on an energy level, is memorised by other individuals and the time/space of the surroundings (time and space without a mask, as a truth) as the bio-holographic information of that moment. It means that the very space, and therefore the universe as well, has a quality of bioholographic memorisation. Quantum and subatomic physics holds that the smallest subatomic particles are somehow 'aware' of what they carry, so even photons are aware of the information they carry.

This is a theoretical presentation of the memorising ability of nearly all creations in nature as bio-holographic. At this point, it is very important to mention that the human brain is an original and unique system, in effect a live quantum computer with enormous power of memory/time compression. It is capable of storing, managing, observing and even manipulating information; it can predict and observe future possibilities, and variations of the same, so that the very notion of time gets another dimension, which is likely to be connected

to the fourth dimension of our existence and living (and maybe some other similar), and so on. The CNS, or the brain, apart from this, takes the form of a kind of time machine. Here, the word 'memories' imply 'time', that is to say, compression of time and so on, by the brain. It is very important to know this, so that people are made aware of their abilities and possible potentials, and thus regulate their mutual relationships and the relations with nature and all sorts, from a legal and morally ethical aspect.

In this context, we should note the discovery in a photo by NASA (see photo in the text), that shows a very young universe, an infant only one trillionth of a second old, where colder and warmer spaces as well as polarised light are clearly visible. This so-called proto-light is polarised at some spaces, and it can also be seen that only a small part of the universe belongs to atoms, while the rest is a dark mass, a dark energy that is more and more enigmatic. This has provided a basis for developing a common understanding that, at the beginning there was dark and light, or polarised and non-polarised, full and empty, good and bad and so on; things that have been taught by nearly every faith. On the other hand it is important to stress that, given the correlation with the religious teachings, good and evil, dark and light, and similar, follow the creation of all creations, and can trace their evolution from their very beginnings. Creation is a very short process, taking perhaps a trillionth-part of a second, but evolution is an unending process. There are examples of this universal principle everywhere: we can find its reflection in ourselves, as living subjects, behaving according to the principle of good or bad, loved or hated; similarly, at a particle-antiparticle, matter-antimatter microscopic level; in the holy books, such as the Christian Bible beginning with Adam and Eve, then Cain and Abel, and in similar things in other religions.

Research into dark matter originally published in *Nature* and cited online at *World Science* draws our attention to dark matter halos, bloblike structures that surround galaxies and contain a trillion times the mass of the Sun. Carlos Frenk of Durham University (UK), a member of the research team known as the Virgo Consortium which also involves scientists from Germany, the Netherlands and the United States, showed how the galaxy's halo would have been expected to grow through a series of violent collisions and mergers between much smaller clumps of dark matter earlier in cosmic history. The group found that gamma-rays, a form of energetic radiation, produced when particles collide in areas of high dark matter concentration should be most detectable near the Sun in the general direction of the galaxy's centre. They predict that gamma-rays from dark matter should glow in "a smoothly varying and characteristic pattern."

From a bio-energetic point of view one could say that, if light creates its world of creations and their evolution, then dark mass and dark energy might create its creations with its own evolution and the like, and that would be parallel with this familiar world of ours; they would interplay, or they might be separated with the possibility for interactions on various inter-dimensional levels. Whether some dimensions are subworlds of their own, parallel worlds

or other superstructures not yet defined among the existing ones, are the questions for a united scientific and religious discourse to explore.

With regard to love as a reality that makes our existence and a destiny possible, marking out our life in a certain direction; this is the result of bio-energetic interactions which, for their part, are an initiator for emission of some neurotransmitters in the CNS, such as dopamine, serotonin and other neurotransmitters (known and unknown at this point), that together with the CNS sustain the emotional state of the body for a shorter or longer period of time after the initial bio-energetic interaction (BEI). Yet, the primary feeling of love directly originates from identification of the bio-energetic spectrum of those in love, who, with their bio-energetic field (BEF) and interactions, suddenly collide as love at first sight with an immediate pleasant flash of excitement. Being selfconscious, these BEF interactions achieve in a way the maximum vibrant and resonant interactions that create a wonderful feeling and wonderful state of body, mind and spirit. The accompanying flashes are connected with them, as already known BEI, but they are also intertwined with the activities of neurotransmitters that are emitted in the CNS, initiated by this interaction. The idea that love fades in old age because of the use of neurotransmitters is not supported. The love of an elderly couple is the same if not stronger, and, when it looks like fading, is transferred to sons, daughters, grandchildren and others. It never disappears — it is always coming back. Moreover, the further away the partners are, the greater their love, on the principles of the subatomic particles, quarks and so on.

With regard to the types and intensity of love (there are a great number and different states of love), the speed of falling in love, for instance, is nearly immediate: it happens in a split-second between people who may not know each other. The fact that love can be felt by both individuals regardless of distance or time and space gives a solid base for more thorough research in this direction. This, however, does not lessen the importance of neurotransmitters; it explains this issue only from a bio-energetic perspective and naturally this can undergo some additional changes. Thus, the main impression is that love as a bio-energetic phenomenon gives an essence and meaning to matters and is, in a way, in the full sense of the word, a peculiar **'primary consciousness'** or 'taste' of everything.

Furthering the experiment with projecting photons onto a screen that was raised in the abstract for discussion, it becomes evident that the quanta reorganise a new creation out of themselves on the basis of what is memorised in a unique way (or on the basis of something else), and they manage to reorganise an image on the basis of a previously confirmed or observed situation, when their maximums overlap and their minimums annul. This demonstrates unique creativity, a unique intellect and path, or simply said, an intelligent creation. The experiment makes it more than probable that a capacity for memorisation exists at the very basic level of subphotonic particles, as well as in other related energies and dimensions not known at this stage, closely connected and creating time and space in its fundament. So it

appears that photons somehow, in their own unique way, know what they are doing, what they carry, previously memorised information and behave according to it in a similar later situations. They are creating something new ...

The quantum component of bio-energy, as well as electromagnetic energy, has been found in subatomic particles. In fact, these energetic components are a part of a whole that is characterised by transferring from one kind to another, creating a continuity of things. Thus, the same component can also be found in subatomic particles, especially in colour force and others, implying that they act with creative intelligence. This is again the case when the quanti and electrons transfer from wave into a particle, or vice versa. It is not known whether this is a kind of one-dimensional filling up of the energetic space or something else, but it is clear that in all this playing around of light there is almost an intelligent component with an already existing primal consciousness at this level, and all this leads to creativity, which is the key element for an evolutionary process. Contrary to creativity, evolution is a long process in which creativity and evolution are endlessly intertwined, adapting to new situations and new conditions of life, perhaps like the photons when they go through openings. Subatomic particles carrying the components of quantum and/or electromagnetism basically cause atoms, in a way, to be also creative with developed consciousness at a level and manner uniquely their own. The best example is the recently discovered new state of matter and its creativity, which is shown by atoms forming a triplet of atoms in a form of Borromeo's rings, in the experiment conducted by Cheng Chin and ten other scientists.

This primary interactive consciousness is connected with the most basic ancient parts of the universe: the subatomic particles and energies (electromagnetic radiations and the very quantum energy as light) that is transferred from generation to generation. Building organic life, this consciousness is present even in the most simple single-cell organisms such as amoeba and viruses. This is supported by the fact that they have already known what is good for them and what is not, they know when to take something as edible or not; their movement and their striding over some obstacles speaks about the existence of a basic primary consciousness and, with that, the existence of primary feelings such as + or -, typical for them; then their segmentation, reproduction and destruction; their life typical only for themselves as their consciousness of their existence. All this, and more, confirms the existence of primary consciousness and awareness together with feelings, that is to say, intelligence, which is, so to speak, a fundamental moving force and a keeper of life from the most simple forms of the living world familiar to us. This is also the case with the more complex forms of life where these feelings and consciousness are on a higher level, so they are universal but at the same time unique.

Dr Jacques Benefits (1935–2004) discovered, on the basis of his experiments, that water has memorising ability. Water that contained previously dissolved substances, even after clearing, keeps the memory of those substances and shows signs of what it contained before. This memory can be transferred

digitally as information. Professor V.M. Inyushin of the University of Alma-Ata (Kazakhstan), and his colleagues, write about the memorising state of the water and its practical use in *Alive Water of Itrish*.

Even the smallest organisms are socialising in communities, which speaks about the development of community and, with that, the existence of collective consciousness, which is primary for survival. In this kind of community, feelings of belonging are stronger and they provide, so to speak, oneness. This is evident both in micro and macro-organisms as well as in people. Every cell carries its characteristics and its function, but at the same time it carries the consciousness of the organism as a whole, holographically. Various mitochondrial and similar structures of amoebas carry out certain functions as humans do, but they are part of a whole that functions as one organism. Man is composed of an enormous number of cells that are basically the same but with various functions that produce various organs that, although different in appearance, function as a whole. In fact, there is a unity on an energetic and material level, and in their mutual functioning. It is the radiation from all known forces and energies, which keeps them together and transfers the information providing consciousness; an image of wholeness while keeping its individuality for itself.

The amoeba and other micro-organisms avoid all obstacles and dangers on the basis of their energetic (that is, their electromagnetic) interactions with their surroundings. If they do not repel by being unpleasant and repulsive, then they are pleasant and attractive. In this way, they exist individually and, at the same time, as builders of the community to which they belong. In their own unique way they have their consciousness about it: primary consciousness or primary intelligence, individual and collective, conscious and unconscious communication. Basically, this raises the fundamental question of altruism, which is a sort of sympathy for others and an unconditional conscious sacrifice of the individual for a better and brighter future for other individuals and the whole community. The simplest example of this occurs when people unconditionally donate various things to help others.

During its development and history, humankind has known and recognised distinguished cases of **altruism**, the most frequent involving the lives of holy people and similar. In this sense, from the Christian point of view, the culmination is the spirituality, achievements, life and message of Jesus Christ, the Son of God, and God Himself and his self-sacrifice for the redemption of humanity in the act of crucifixion. In Islam, this kind of gratitude is expressed in the work of the prophet Mohammed; in Buddhism is Buddha; in Taoism it is Tao; and so on. In this context, other religions have their distinguished figures who take central stage in their traditions and rituals, and deserve an eternal respect as an example of benefaction that should be followed, and from a bio-energetic perspective this is completely justified.

Altruism is Man's greatest characteristic. As far as this question is concerned, the theory of evolution is rather restricted, and essentially it does not admit

this merciful presence in the process of evolution. According to its teaching, only the strongest resume evolution, only the strongest survive — especially those with strong and tough evolutionary reproductive organs and strong self-preserving systems and organs — and in all that process there is no place for sacrifice or self-sacrifice as charity, nor for unconditional works or good deeds.

However, here and as stated earlier, the facts demonstrate the very opposite. Compassion and altruism are something which go hand-in-hand with creative evolution of man from its early beginning. So, the statement above which is widely accepted as truth, even by science, from bio-energy point of view, this statement is simply not true in its foundations...

This is not the case from a bio-energetic aspect: in existential frames, evolution is a combination of everything stated in this text. In this context, we can refer to the scientific work of Aurora Nedelcu from the University of New Brunswick, Fredericton (Canada) and Richard Michod at the University of Arizona, Tucson (USA), whose research was published in the journal *Molecular Biology and Evolution* (May 23, 2006). Namely, a gene of altruism was discovered in *Volvox*, one of the simplest micro-organisms. This micro-organism belongs to the group between unicellular and multicellular organisms, and as a multicellular one; with about 2000 cells united in a globule, it is one of the oldest in the evolutionary process. It has been discovered that some of their organelles self-sacrifice for the better development of others and the community. This nearly fundamentally changes the way of thinking and the approach to a conventional way of thinking, and supports the ideas presented here.

Research by Klaas J. Hellingwerf published in the journal *Trends in Microbiology* (April 2005), discovered that the connection between the bacterial system and the neural net signal system is more than superficial. Hellingwerf discovered that the bacterial system contains all the necessary characteristics to make the neural system work, backing the idea that bacteria have a minimal form of intelligence. By itself it means consciousness and, in this context, it confirms all that is stated in this publication. Even more, scientists have stated that bacteria show an altruistic character. Namely, when they 'sense' through their created system of communication within the community that a region of the community is in danger, part of the bacteria that are near-neighbours will sacrifice themselves to save the others.

As this consciousness has been evident since the earliest phases of existence and creativity, and throughout the whole evolution of the living world, including the most simple organisms as well as humankind, the foetus is self-conscious in its own way. It is to science to prove when this self-consciousness turns into consciousness. This issue is of exceptional moral and ethical importance for humankind. Only part-explanations and knowledge of it have been given to answer the essential questions that are continually part of public debate, and it tends to be rather speculative and unnecessary. The right and true path has still not been found that shows how to analyse this fundamental question of our survival — the question about Man's beginning.

Neanderthals had feelings too, researchers say

Oct. 5, 2010

*Courtesy of the University of York
and World Science staff*

Neanderthal people had a deep-seated sense of compassion, their brutish reputation notwithstanding, according to new research from the University of York, U.K.

The study also examines the emergence of compassion in other early humans. Scientists “have traditionally paid a lot of attention to how early humans thought about each other, but it may well be time to pay rather more attention to whether or not they ‘cared,’” said archaeologist Penny Spikins of the university.

Spikins and colleagues have embarked on what they call the “unique challenge” of charting the development of human compassion. They studied archaeological evidence for the way emotions, as they claim, began to emerge in our early ancestors and then developed to more recent humans such as Neanderthals and ourselves. The research by Spikins, Andy Needham and Holly Rutherford is published in the research journal Time and Mind.

They propose a four-stage model for the development of human compassion. It starts six million years ago when a common ancestor of humans and chimpanzees experienced the first awakenings of an empathy for others and motivation to help them, perhaps with a gesture of comfort or moving a branch to let them pass.

The second stage, from 1.8 million years ago, sees compassion in the human ancestor Homo erectus beginning to be governed as an emotion integrated with rational thought. In this picture, care of sick people represented an extensive investment, while the emergence of special treatment of the dead suggested grief at the loss of a loved one and a wish to soothe others’ feelings.

In Europe between around 500,000 and 40,000 years ago, early humans such as Homo heidelbergensis and Neanderthals developed deep-seated commitments to the welfare of others, as illustrated by a long adolescence and a dependence on hunting together, the researchers propose.

They also cite what they call evidence of routine, long-term care of the injured or infirm. This includes the remains of a child with a congenital brain abnormality who was not abandoned but lived until five or six years; and those of a Neanderthal with a withered arm, deformed feet and blindness in one eye who must have been cared for, perhaps for as long as 20 years.

In modern humans starting 120,000 years ago, compassion was extended to strangers, animals, objects and abstract concepts, according to the Spikins group’s model.

“Compassion is perhaps the most fundamental human emotion. It binds us together and can inspire us but it is also fragile and elusive,” Spikins said. “This apparent fragility makes addressing the evidence for the development of compassion in our most ancient ancestors a unique challenge, yet the archaeological record has an important story to tell.”

*Spikins will give a free public lecture about the research at the University of York on Oct. 19. The researchers are also publishing the study as a book, *The Prehistory of Compassion*, with all proceeds promised to go to the charity World Vision.*

In order to get closer to an answer, we can conclude primarily, on the basis of our reality and everyday life, that communication between mother and foetus exists from the earliest phases of pregnancy. This is well known from practice, but more importantly from what mothers feel and say, which is universal and nearly identical for almost all people on the planet regardless of development, race, nation or faith. A mother's feelings and her need to take certain food at a certain time is a solid indicator of that, as there have been cases of abortion if she did not have access to that food. The mechanism about this is not known, but it is known among almost all cultures that when mother-to-be needs something then people around her are mobilised to provide those needs. After that she is quite calm and happy. From a bio-energetic aspect, it is the foetus that wants, through its mother, to get to know the outer world in a certain way and on a certain path. This appears to favour the existence of primary self-consciousness, even at this level.

Another consideration is that mother-to-be usually needs certain foods because they contain some important ingredients, minerals or vitamins that she needs for her metabolism to function, or to balance at that moment. Or it could be that mother-to-be is responding to the ‘inner cry’ of the baby-to-be. Perhaps problems during or after pregnancy with mother or baby (such as post-natal depression, or abortions that occur with no obvious explanations or development problems) could be explained or better managed with more investigation in this area. Questions about birth have answers, but they are not simply black and white as birth is not a moment but a process beginning with conception, and the evolution of life is work for a unified scientific and religious thought to continue. From a bio-energy point of view, conception is the moment of the beginning of life, and the birth is a process of life. Similarly, questions of personality and consciousness, when it is beginning and when it is transforming from one to other form need to be addressed between a partnership of science and religion. Only then can sound standards and legal norms that can be highly respected be forged.

Babies in the Womb Have Memories

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Thursday, July 16, 2009 10:02 AM

By: Jennifer Harper

The unborn have memories, according to medical researchers who used sound and vibration stimulation, combined with sonography, to reveal that the human fetus displays short-term memory from at least 30 weeks gestation - or about two months before they are born.

"In addition, results indicated that 34-week-old fetuses are able to store information and retrieve it four weeks later," said the research, which was released Wednesday.

Scientists from the Department of Obstetrics and Gynecology at Maastricht University Medical Centre and the University Medical Centre St. Radboud, both in the Netherlands, based their findings on a study of 100 healthy pregnant women and their fetuses with the help of some gentle but precise sensory stimulation.

On five occasions during the last eight weeks of their pregnancies, the women received a series of one-second buzzes on their bellies with a "fetal vibroacoustic stimulator," a hand-held diagnostic device used to gauge an unborn baby's heart rate and general well-being.

The baby's responses - primarily eye, mouth and body movements - were closely monitored over the weeks with ultrasound imaging to gauge "fetal learning" patterns. The researchers found that the babies acclimated themselves to the sounds and vibrations to the point that they no longer bothered to respond - a process known as "habituation."

"The stimulus is then accepted as 'safe' " by the babies, the study said.

The team also found that the tiny test subjects actually improved these skills as they grew older, with those who were 34- or 36-weeks old clearly showing that they had become familiar with the hum outside the womb.

"The fetus 'remembers' the stimulus and the number of stimuli needed for the fetus to habituate is then much smaller," the study said.

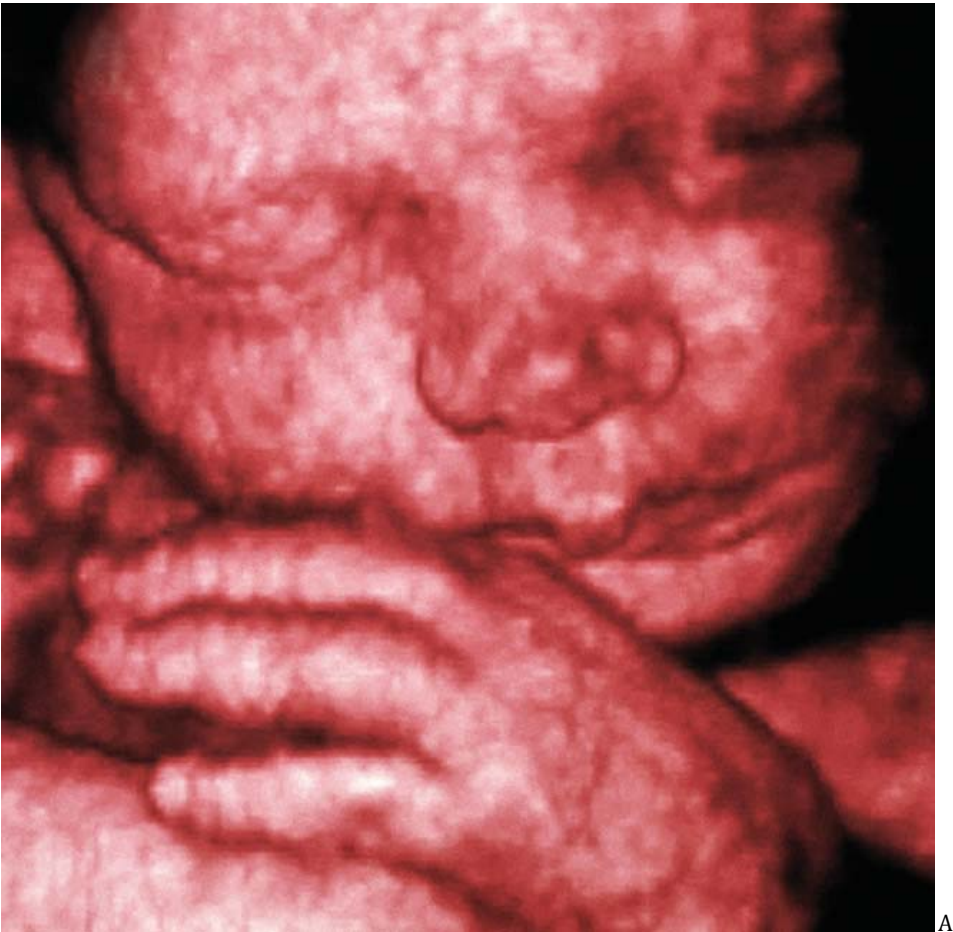
"It seems like every day we find out marvelous new things about the development of unborn children. We hope that this latest information helps people realize more clearly that the unborn are members of the human family with amazing capabilities and capacities like these built in from the moment of conception," said Randall K. O'Bannon, director of education and research for the National Right to Life Educational Trust Fund.

The Dutch medical team, meanwhile, said its findings could help obstetricians track the healthy development of unborn babies during pregnancy. The research was published in Child Development, a medical journal.

In 2003, psychologists and obstetricians at Queen's University in Canada found a profound mother-baby link. In a study of 60 pregnant women, they found that the unborn babies preferred the voices of their own mothers - both before and after birth. The heart rates of fetuses sped up when they heard their mother reading a poem, and slowed down when they heard a stranger's voice - evidence of "sustained attention, memory and learning by the fetus," said Barbara Kisilevsky, a professor of nursing who led the research.

The Queen's group has also investigated fetal response to the father's voice, concluding that if men try a little pre-natal vocalizing to their offspring, the newborn will later recognize the father's voice.

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three-dimensional ultrasound picture of a healthy unborn child.

PhotoLibrary

In a recent edition of *Nature* (January 12, 2006), Nigel Franks and Tom Richardson from the University of Bristol (UK), studied ants (*Temnotorax Albipennis*) and found that they 'teach' each other how to look for food using signals that they said control the speed and route of the journey. By the accepted definition of teaching in animal behaviour, they said, an individual is a teacher if it modifies its behaviour in the presence of an uninformed observer, at some initial cost to itself, to set an example so that the other one can learn. Franks described the study of paired or tandem running of the ants. At the start of a tandem run, the leader finds an ant who doesn't know the route and is willing to follow. Tandem runs are rather slow because the follower frequently pauses to look for landmarks so that it can learn the route. Tandem followers learn their lessons so well that they often become tandem leaders and in this way time-saving information flows through the ant colony.

Vincent Janic of the University of St Andrews, Fife (UK) and his colleagues studied bottlenose dolphins in Sarasota Bay, Florida (USA), in particular their individual characteristics such as whistling — which is an original signature of the dolphin, something similar to the names of people, an individual characteristic — by using computer-generated sounds. The research article was written for *Proceedings of the National Academy of Science* and published online for *World Science* (May 8, 2006). Apart from other things, the scientists discovered that the dolphins responded to some whistles that were peculiar only to themselves as individuals. They responded to the whistles even when they were computer manipulated, but still leaving the basic characteristic of the whistle the same. They also turned to face the source of whistles, although changed, that were the sounds of a relative dolphin. It was found that, although these computerised whistles were changed, they basically remained the same and the dolphins paid attention to them nine out of the 14 times they were played. It was concluded that the dolphins used the whistles as if they referred to them or were addressed to them, just as the names of people.



Bottlenose dolphins.

PhotoLibrary

This finding is one of a recent series that demonstrates the abilities of animals to learn: others include the finding that some birds can use essential grammar rules as people; that chimpanzees can make comments more frequently than previously thought.

The latest scientific studies in the world show that mice can think, birds can plan their meals and so on.

Birds may attract mates with “scary movie” effect

Jan. 18, 2011

*Courtesy of University of Chicago Medical Center
and staff*

Using a horror film to bring your date closer is a classic move in the teenage playbook. Now, a study of Australian birds finds that other animals may use the same “scary movie effect” to attract female attention, by piggybacking their mating song onto the calls of predators.

Male splendid fairy-wrens, small birds from Australia, sing a special song each time they hear the call of one of their predators, the butcherbirds. New research has found that this seemingly dangerous behavior may actually serve as a call to potential mates — a flirtation using fear.



A pair of splendid fairy-wrens on their territory in South Australia. (Credit: Mitchell Walters/ U. Chicago)

“Females do, in fact, become especially attentive after hearing butcherbird calls,” said Emma Greig of Cornell University at Ithaca, N.Y., one of the researchers. “It seems that male fairy-wrens may be singing when they know they will have an attentive audience, and, based on the response of females, this strategy may actually work!”

Published in the research journal Behavioral Ecology, the study involved playing sound clips to

splendid fairy wrens at a conservation center in Southern Australia.

After years of studying these birds and their close relatives, the superb fairy-wrens, researchers had noticed the unique, consistent pairing of butcherbird calls with a unique call known as Type II song. “The male begins his Type II call immediately after the butcherbird begins to call, so they’re basically right on top of each other,” said University of Chicago researcher Stephen Pruett-Jones, a member. “It sounds like a duet.”

But theories varied as to why fairy-wrens would risk attracting a predator by singing. Was it an alarm call to other fairy-wrens in the area? A display of their bravery and physical fitness to attract mates? Or an effective means of capturing the attention of any females around?

Greig played different combinations of songs from her iPod to male and female fairy-wrens in their natural habitat: the territorial Type I song, as well as the Type II song with and without the preceding predator call. The experiments found that females were most attentive – as measured by looking in the direction of the call and responding with their own song – when the butcherbird-preceded Type II song was played.

“The most exciting possibility is that Type II songs have a sexual function, and that females are more easily stimulated by, or receptive to, displays after being alerted by a predator, such that the male’s song is especially attractive,” Greig said.

The results suggest that males use the predator call as an “alerting signal,” Pruett-Jones said, similar to how humans might capture another person’s attention by starting their sentence with “Hey!” For the females, the signal may carry information about the location of potential mates in neighboring territories, and potentially may nudge them towards mating, Greig said.

Splendid fairy-wrens are interesting to scientists studying evolution and mating patterns due to their unique social structure, said Pruett-Jones. While the birds are socially monogamous, forming male-female pairs that last their entire lives, they are sexually promiscuous, mating predominantly with birds outside of their home pair.

Ongoing research is measuring the physical attributes and genetics of male splendid fairy-wrens and their offspring to see if there is a connection between Type II singing and mating success. So far, no link has been found between the behavior and physical health, the investigators said, suggesting Type II songs aren’t a self-imposed handicap to make males look more fit and attractive to females.

All males “gave Type II songs with equal frequency, which suggests that singing after a predator vocalizes may not be as costly a behavior as you might imagine,” Greig said. “Contrary to what you might expect, singing after a predator call may actually be quite safe: the male fairy-

wrens know where the predator is, and he also knows that the predator isn't actively hunting at that moment, but is instead singing its heart out."

Greig is also currently testing how common the "scary movie effect" is beyond the splendid and superb fairy-wrens. While only two other birds, fairy gerygones and white-throated magpie jays, are thought to demonstrate similar predator-elicited display, the researchers believe it may be present and undetected in other species as well.

That is to say, they possess the power of thinking. On the other hand, it is explaining and is the right Introduction into Intelligent Creation and the process of memorizing and thinking in forming what is known to us humans as consciousness and personality, which is explored later in the text.

Tiny bugs have own personalities despite being clones, scientists say

March 3, 2011 Special to World Science

Tiny green insects known as pea aphids have individual behavior patterns, or "personalities," despite being clones of one another, scientists say. The researchers found differences in the way each individual responds to a threat. The study was part of a "burgeoning" of scientific interest in animal personality variation, noted the investigators, with the University of Osnabrueck, Germany. But despite this trend, they added, few studies have been done on invertebrates, or simple animals without backbones.



The pea aphid, *Acyrthosiphon pisum*, sucks nectar from a plant. (Image courtesy Tsutomu Tsuchida)

Studies on “clonal invertebrates,” which are all genetically identical and would thus be expected to show limited differences in behavior, are “nonexistent,” they added, reporting their findings in the March 1 online issue of the journal *Developmental Psychobiology*. “This is surprising given the obvious advantages of using invertebrates/clones to tackle the crucial question why such consistent behavioral differences exist,” they went on. Personality differences not attributable to genes are generally presumed to be due to the environment in which an organism formed, though there is also a

growing appreciation of epigenetic factors—chemical differences that are not genetic, but that influence gene activity. Pea aphids, scientifically named *Acyrthosiphon pisum*, are pale little insects typically less than a sixth of an inch (half a centimeter) long that feed on pea plants and their relatives. A cluster of aphids infesting a given plant is typically a genetically identical, or clonal, group produced by one mother without sex, although aphids can also reproduce sexually at certain phases. When a pea aphid is threatened by a predator—of which the species has several including wasps and grubs—it gives off a chemical alarm signal that alerts nearby aphids. They may respond in several ways: they can walk away, drop off the plant or seemingly ignore the signal. The researchers, Wiebke Schuett and colleagues, found that pea aphids can be divided into one of three categories: consistent “drop-pers,” consistent “non-droppers,” and some that behave unpredictably. In experiments, “manipulations of early environmental conditions had little qualitative impact on such patterns,” the researchers wrote. Although the reasons for the differences are unclear, the findings may be important for future studies of personality variation and its evolutionary and ecological consequences, they added. Researchers seek to understand how animals develop different “personalities” in part because they want to understand how humans do so. Animals are used as model organisms because they are often simpler and easier to experiment on. For instance, animals

may be bred differently to examine resulting differences in behavior, and the early life environment of a test animal can be controlled and examined. Studies have found that 20 to 50 percent of the variation in animal personality traits is genetic, according to researchers with the Netherlands Institute of Ecology and the Max Planck Institute for Ornithology in Germany, who reviewed the subject for the December issue of the journal Philosophical Transactions of the Royal Society B. "Development and learning" dominate the rest of this variation, they added. But "one of the main questions that still remains unresolved is why variation in personality exists and how this is maintained... Molecular genetic research on animal personality is still in its infancy."

Bio-energetic interactions, as energetic waves of interactions, continually penetrate people, especially their CNS. Depending on the place where they get resonance and charm, with the help of charm and resonance components, they activate various parts of their brain, which, according to the received information, activate most and become centres of a needed action. In fact, there is no precisely defined centre that could function independently and by itself, except for other similar things. There are centres, but they work integrally with maximum activity only from defined regions for that. On this basis, consciousness is created and, with further stimulation and secretion of some mediators or neurotransmitters, an adequate activity is achieved. The same happens with those in love. The resonance of subatomic particles is primal and initiated by the charm of their identified characteristics in their cells, in DNA and all other cells, especially those in the CNS and their stimulation (tuning of the subatomic particles) with a certain spin in + sense, that is to say, intensity, with its characteristic (here we can talk about love, attraction). This is the same for people both as receivers and transmitters, who at the moment of resonance become one being. Their state of consciousness is **equated**. At this moment, various bio-chemical reactions begin to be stimulated and there is a stimulated secretion of certain neurotransmitters, which retain this state. It is difficult to forget and it is difficult to wipe it out. In fact, the state of consciousness is the indicator of the events in and around us, which makes us conscious of some things we were not previously aware of, but they are present in and around us. If an automatism and skill could be obtained so that an individual becomes self-conscious of these bio-energetic interactions, then in this state of consciousness he or she can 'penetrate' into other multidimensional fields and 'worlds' of existence that intertwine with our existence at this level and in the present time and space.

The state of consciousness is nearly the same for everybody, everywhere and for ever. There is a progress of the intellect and technology of humankind. Unfortunately, the basic sustainers of life-emotions fade more and more with the development of the professional life. Still, nobody has succeeded in destroying love as a basic and unconditional emotion of sustenance for humankind, which is why it is very important to pay attention and worth

respecting Man's emotional life, as well as the vision about the significant impact it will have on our future generations.

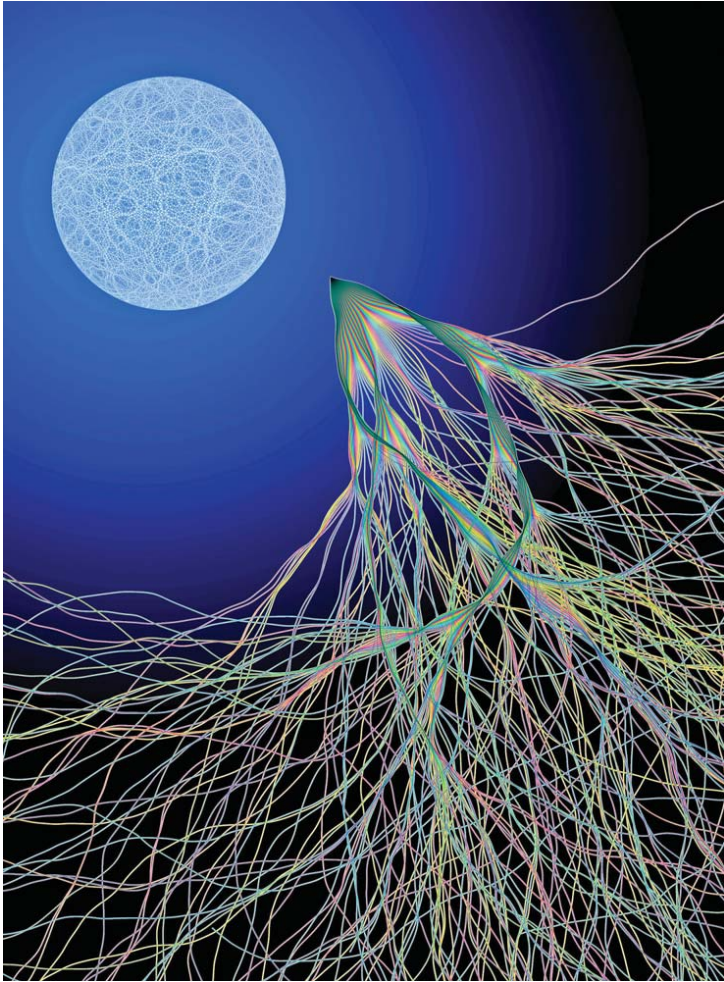
As previously stated, there is a duality at each level everywhere in the universe, around us and in us. This polarity reaches the point where we, as emotional and creative beings on a natural principle, have our lifetime companion in our partner, something that is evident everywhere in nature. Thus, the smallest particles and energies, and the virtual particles and energies as well as the atoms and all in this direction, have their lifetime companions, theirs and only theirs, a unique but opposite pole only for them. This eternal marital journey of all creations is in fact inevitable in a natural way. In this sense, if we talk about duality having in mind the basis of what makes us possess natural polarity, then we shall come to love, which is also not alone.

Love, as was mentioned earlier, has its opposite in hate as a feeling. From our everyday experience, we can say that hate goes together with love and fellowship. If hate is not present there, it will be born in various ways because of various interests in bigger or smaller quantity, or vice versa. Here and everywhere, there is a well-known rule in subatomic physics that maintains atoms, or rather, their nucleuses, compact. If the quarks subatomic particles in the atomic nucleus move away, their attraction force increases. This also applies to those in love: if they are separated in time, space and thought, their feelings are stronger, and their love and absence of each other intensifies. This is obvious on micro and macro planes. On the micro level, from humankind's perspective, generally from our everyday life and life throughout our history, we can conclude that the greater the hatred of some groups in our society grows with the intention of destroying even our planet, the more love of other groups towards the survival of our planet and the progress of humankind increases. Both those who in a way destroy the Earth and those who struggle for its protection basically have the same inherited characteristics, and they pass them down in their inheritance. In that, from a bio-energy aspect, we can say that balancing is essential.

It is love as a primal form of emotion — a sum of emotions — that has created and made life possible and can be found in all creations, which is why it is inextinguishable as a strong white light. Since in the course of the whole creative evolution of humankind this and similar questions have been variously interpreted, and more often misinterpreted by various people for various reasons, and since such misinterpretations have been dragged out throughout the history of our creative evolution, then these key matters should be explained firmly. Thus hate as an emotion was born from love, and the higher organisms, especially Man, show that very well. Hate is not characteristic of other kinds of animals. They are characterised by the instinct of rage, rivalry and the like, which in fact are not emotions such as hate in the true sense of the word. It is well known that, after a fight, animals live side by side again in a sort of narcolepsy. It is people who have made hate live in themselves for centuries, in contrast to love. Because it has come out of love and because it appeared later, it is sentenced to destruction. A constructive

balance of the two can bring equilibrium and progress through meekness, friendship and dialogue.

Science has discovered that dopamine and similar substances are excreted in the basic ganglia of the brain. These substances are known for their ability to create and sustain euphoria, high mood and the like, when, as neurotransmitters, they are present in the CNS. In the course of romance, love and similar emotional states, there are chemical electric transmitters that maintain this feeling naturally. If we create pleasant moments, spread warmth, and so on — behaving positively, using faith and various meditative and other relaxation techniques and exercises, as well as healthy diet and fasting — then this state will be reduced to automatism and there will be no need to initiate euphoric moments with drugs, medications and the like.



Classical and quantum chaos (in a sphere form).

PhotoLibrary/Eric Heller



Chapter 2.2

According to Gauge Theory, particles that are carriers of force feel that force. This is about the existence of a sort of self-consciousness of particles and, therefore, because of their dual nature, it applies to the waves as well. Photons, because of their dual nature, can be carriers of information in three-dimensional bio-holographic form, aware in their own unique ways of the information and so can be attracted and rightly directed. This could apply to electromagnetic waves as well. If a man has adequate charm and resonance characteristics with the wanted information, then he would attract them and, depending on his power of conscious interpretation, he could discover their 'conceivable content'. If he does not have such an adequate system, he will not have such ability. Similarly, if a radio set does not have parts to receive FM radio programmes, it cannot receive them, but this does not mean that they do not exist. It means that, with its structure at that level of electromagnetic communication, the radio set is not capable of receiving FM frequencies. The person who can receive and interpret given information as a concept, message, content or as a live three-dimensional bio-holographic image or event regardless of time and space is considered more gifted than the others in this domain, and very often belongs to the group of those characterised and known as mediums, the extra-sensed and the like.

In 1976, Burton Richter and Samuel C.C. Ting (USA) were awarded a Nobel Prize in Physics for their parallel discovery of a subatomic particle that basically confirms the existence of attraction. The particle is called J/ψ particle. It can also be seen in protons and neutrons. It belongs to the group of subatomic particles called baryons. Baryons are a subset of the hadrons (which are the particles made of quarks) and participate in the strong interaction. Each baryon has a corresponding antiparticle (antibaryon) where quarks are replaced by their corresponding antiquarks and antiquarks replaced by their corresponding quarks. This discovery helped scientific circles to have a look a little bit deeper into what they call 'magic', 'mystic' or 'para-phenomena' in a scientific way. In fact, the particle is called Ψ or Charm because it is thought that it is connected with all Ψ -phenomena from the occult/mystic spheres, which can be justified by the existence of that particle even in a scientific way. If we try to look at this and explain it in bio-energetic way, it seems that it is

strictly scientific and ordinary without any mystical component. The mysticism lies in the people themselves due to many reasons and interests, together with deficient knowledge owing to inadequate technology and the like, as well as the 'indifference' of science and the apathy of religions, and perhaps from fear of the unknown?

In 1968, Luis Walter Alvarez (USA) was awarded the Nobel Prize in Physics for his discovery of subatomic particles with a very short lifetime, called resonance particles. They provide resonance of subatomic vibrations according to the required information or according to what the charm particle would bring as information. In that way, the tuning of the two vibrations and their identification happens. Therefore, the possibility of sending and receiving various pieces of information can exist. Namely, electromagnetic waves have already been proven as carriers of information, and are used in today's telecommunications, radio, television, and so on, while photons are able to transmit much larger amounts of information. Their quantum nature enables images, events, happenings and the like to be transmitted in three-dimensional form as holograms, that is to say, bioholograms. Elsewhere it is outlined how our cells radiate radio signals and that the DNA of the cells radiates pallid laser light, creating the possibility of bio-holograms.

Man is an 'aerial being' and therefore has an enormous possibility for receiving and transmitting information, that is to say, the possibility for radiation. As is well known from physics, each body is capable of its own radiation, as well as was seen in the beginning of this book from the research coming from Japan. While aerial bodies possess a bigger possibility of radiating, and receiving and transmitting information, which is presently used in telecommunication. As is well known, this is due to a larger electromagnetic charge on the ends of the objects; sometimes this electric charge is so big that, under various circumstances, the objects produce an electrical discharge in sparks or an electrical discharge as lightning — for example, when sailing ships in rainy weather discharge the so-called St Elmo's fires, a phenomenon that was mystified for a long time in the past. The density of our CNS provides an even greater possibility for radiation helped by our aerial form.

In a state of deep prayer or transcendental meditation, when physical and spiritual unity is achieved together with a harmony at this level, with the breathing change as previously mentioned, the polarity of cells in the CNS and later in the body can be changed. In this case, the body would act as a whole. The body is a sort of electric conductor with its polarities.

As each cell has its polarity, so in turn does the whole body. This is present in everyday medical diagnostics, as seen in various examinations of the heart, the CNS, and so on. With the polarity change of the body to the exterior, there is a possibility of telekinetic phenomena. Namely, with the change of the body polarity in whole or part towards its surroundings, the polarity of the individual changes, which can result in an attraction or repulsion of objects in its surroundings. The same happens when magnets are drawn near each other

with their same or opposite polarities, at which they are attracted to each other or repelled. This can happen also with people and their surroundings, and can be done either consciously and willingly or completely unconsciously. If this kind of state is achieved automatically and is directed, an initiation of movement in a person's surroundings can be realised. Some objects with a specific purpose are independently energised, at which point some energising of the objects occurs in the individual's surroundings.



There's something attractive about Bogdan, the Serbian boy who claims to be 'magnetic'

By Daily Mail Reporter

Last updated at 12:23 PM on 24th February 2011

A seven-year-old boy in Serbia is attracting worldwide attention after his family claim he is magnetic.

To prove their claim, the family paraded the boy in front of a camera crew, with a variety of objects stuck to his chest.

The boy, called Bogdan, seemed unfazed by the attention - nor did he seem to mind having a variety of cutlery stuck to his body.



Bogdan the magnificent: A Serbian family claims seven-year-old Bogdan is magnetic, a odd gift he has had all his life



Attracting the media: Even the reporter's microphone ends up attached to Bogdan's body. His family says he affects electrical equipment as well

The footage ended up on MSNBC, where reporter Al Stirrett said Bodgan did indeed have a unique ability.

Mr Stirrett told MailOnline that the family did not offer their last name, possibly because of the age of the boy.

Nevertheless, they're happy to show off Bodgan's ability - which they claim he has had since birth.

The footage shows Bogdan first with a variety of cutlery attached to him, then a TV remote control is added to his body.



Not just metal: China plates and the TV remote control also stick to Bogdan as other members of his family look on

They say the objects stay there until Bogdan removes them by hand.

Bizarrely, it's not just metal that seems to be attracted to the youngster. China plates and bowls seem to adhere themselves to Bogdan's chest as well.

Any feelings that Bogdan might be nothing more than a sticky little boy are dispelled when a large and heavy frying pan is stuck to his body.

The family say Bogdan is not allowed to go near anything electrical, such as a television or a computer, because his alleged magnetism turns them off.

The good news, however, is that he will never lose the TV remote control.

This can be the case even if a person is unconscious of their ability and the circumstances connected with it. Otherwise, when a person is conscious and aware of their ability, this occurrence can be consciously directed non-chaotically towards something and even controlled by that person. As mentioned, this is accompanied by a special state of the CNS, which looks like the mentioned state, or is near to a trance state if it is of deeper intensity, and can be completely automatically executed consciously or unconsciously. In this case, a resonance of all particles in the organism can be achieved, as well as a kind of trance state. This is different from a hypnotic state, because there is no fainting and the state of activity is quite conscious. When this process is being turned towards an individual and the base on which he or she is sitting, then a state of levitation can be achieved, marked by the human body hovering in the air.

Since the human organism consists of various organs of different density and function, various parts of the human organism have various radiations, more or less intensive. In those places where larger electric activities are going on — such as places with denser nerve structure, as nerve plexuses (high concentration of nervous cells), there would be greater and stronger energetic radiation. Such places are the endocrine glands and the nerve network, plexus. They are situated in the pelvic girdle, the upper part of the abdomen, chest, neck and, naturally, the head. Such places coincide with the places described by religions as energetic centres, or chakra and the like. Many such places are described and interpreted by eastern religions and Judaism, although even Christianity knows and recognises such centres. The heart centre is the most important centre for Christianity.

There have always been gifted people, who are able to not only sense these superior energetic centres, but also to control the energy. In and around these centres, charged with QEEMR, are micro-turbulences of these radiations, micro-eruptions that enable the creation of microclimates that, apart from

other things, can create micro-vacuums. Besides other things, this might be a prerequisite for creating virtual energy and virtual particles that are used in the phenomena stated in this text, consciously, half-consciously, unconsciously, willingly or not, in trance, forced and the like. In a way, at a micro scale, it can be used to manipulate time and space in some dimensions, and some present possible realities and possibilities in the inner screen of the medium. Such micro-eruptions of QEEMR and nature can also be found in acupuncture points and along acupuncture channels, well known in traditional Chinese medicine, as well as in the more subtle channels and meridians in the 'esoteric energetic system' of energetic connection in the organism, so called nadi, well known in traditional Tibetan medicine. By using special methods of electrophotography, they can be made visible for study. The earliest studies of this domain were made many years ago by Thelma Moss (UCLA, USA), Professor Michail Inyushin and colleagues of the University in Alma-Ata (Kazakhstan) and others.

Acupuncture and nadi energetic systems look like the infrastructure of Man's energetic system, which has, it seems, communication with the larger systems such as nervous, lymphatic and blood systems, rounding up the whole organism and making it a whole at the energetic and material plane. We can say that they would look like the invisible energetic structure of the universe, by the principle of microcosm and macrocosm conveyed by electromagnetic powers, the force of gravity, and the complex of strings, and so on, that keep the universe compact and its structure whole.

Making an intersection of all religions, we can see that, among other things, one of the most central features is prayer, meditation or mantra. During this state of deep tones or vibrations, a resonance is created in the organism, and with some movements and words (without going into the religious essence and significance of those states that is the competence of religions) the organism concentrates on it. From the physiological point of view, the breathing process changes, it gets deeper and slower. Owing to this process, a breathing alkalosis is achieved together with hypohypocalcaemia, at which the polarity of the cells changes, mostly in the CNS but also elsewhere in the body. The achieved resonance in nearly all the cells of the body makes the body vibrate harmoniously; there is harmonious rendering of energy and reorganisation of the body at the energetic and bodily planes. A sort of self-control and self-regulation is achieved. At this moment the hands clap palm to palm, by which the quantum electromagnetic circle closes and a state of harmony is achieved. As stated earlier, aerial objects have an enormous possibility to radiate.

Fingers, in the form of an antenna, are the most privileged for such radiation, more owing to the fact that the CNS in its motor callus in the frontal section of the brain uses about more than 70 per cent of the cells for innervating palms in comparison to the rest of the body. Thus, the palms have the greatest electromagnetic charge, and they can perform various functions such as rebalancing of QEEMR around and in the human body. That is why their use during meditation, prayer, healing and so on is justified, and why they are used at baptism and other similar activities in Christianity and other religions

(without going further into the meaning of rituals that belongs to the domain of religions). Christening, at the QEEMR level, achieves not only the rebalance and neutralisation of harmful and inefficient radiations in and around the body, but also the clearance of the energetic centres found along the very centre of the body, from the pelvis to the head (chakras and others). By moving the palms, as well as by clasping one's hands at the middle of the body, the electromagnetic circle can close and neutralise. Hence, it is justified to use some fingers at performing some rites, especially when certain fingers present particular centres/organs/systems and the like, with directed actions and defined aims for that. The same practice is evident in both eastern and western religions, especially by high priests.

This shows the reality, that is to say, the practicality of the stated and other bio-energetic phenomena, and the importance of their classification by science in cooperation with united religions (without any interference in the originality of religious interpretations and the like) so that they can remain beneficial for humankind, and with that stay pure and unmanipulated. In this context, it is very important to point out that, since the palms possess 70 per cent of the total innervated motor zone of the CNS in the front part of the brain, their electromagnetic field is more charged than other zones of the body, which gives the possibility and justification for various activities from a bio-energetic aspect. One of many is therapy with bio-energy, which is to say bio-energy therapy or touch therapy, whereby charged hands create balance of the bio-energetic field around an individual and refill it with bio-energy. This practice has been known for a long time (most healers in the past were holy people, including Jesus Christ) and it has been used as an alternative branch in traditional medicine. As will be seen in Part 2, it is one of the foundations of today's therapies, and it has been kept in its unchanged form even today. Energy medicine can become an integral part of medicine in the future, and will be explicated scientifically as such.

Quantum theory proves and teaches about the existence of virtual energies and particles that are constantly created and disappear in an instant, in space and time seemingly without any order. They are carriers of energy, that is, they are energy. One transfers into another: they transfer from particles into antiparticles, from particles into waves and vice versa. From our present understanding, they are created chaotically, without any order, or the 'order' is hidden from us for many reasons and lack of knowledge. If we had control over some or nearly all dimensions of existence and the possibilities around us and in us, then this process might not appear without any order, but it would be with something like their peculiar regularity at that moment, time and space.

Virtual particles create negative space with their disappearance and appearance, so it seems that in their unique way they penetrate temporal and spatial spheres and dimensions of existence and, by interfering, they disturb them. In this way, they are in a unique position to manipulate both space and time. Since Man as an aerial creation attracts and reflects — including particles and waves, virtual and non-virtual — and possesses 'centres' in his body

variously charged at the quantum-energetic field that provide various electromagnetic potential and such an activity, we can, with the help of some mechanisms and properties of waves and particles, perform a peculiar inter-dimensional leap at an energetic level and achieve, such as it is, a time-space manipulation. Depending on our state of consciousness, people can be consciously, half-consciously or unconsciously active, an ability we can use or not, for various reasons and in various activities similar to those stated.

Having in mind that humans radiate in their surroundings, as a result of metabolic processes or passive radiation of DNA and the like, humankind is also an object of radiation as a result of the 'quality' to attract certain forms of particles, waves, radiation, and so on. In the course of these interactions and interferences at an energetic field, it seems that the so-called micro-climate or aura and the like has been created and can be sensed. Because there is a constant movement of energies and radiations in and around us, one can expect that they are also a source, or something similar in that sense, of virtual energies and particles with their transition from one to another. As is well known, they are constantly being formed and reformed; that is to say, they disappear and appear from nothing and everywhere all at once and all the time. In their unique way, they produce a peculiar glittering in the surroundings. So it is natural to expect that, besides our BEF, there is also such sparkling around us that produces an aura field. This aura, the energetic glittering of Man, which can be found in nearly everybody, is especially strong in gifted and holy people, as a result of the bigger QEEMR energy field around them. This energetically charged field, during certain phases of development (or constantly), makes individuals with such an aura become conscious (more or less) of some or all of their extra abilities that make them more special than others. For example, the possibility of contact with other dimensions or worlds because of some known or unknown, even to them, reasons, or with those whom they should do something to help in their space and time, so that they can make a difference in people's lives in a region and further, or for humankind in general, in a positive sense; with some extra abilities that they possess, they could heal people with touch, and so on. Such cases have been described throughout history, but without any verification either from scientific (because of lack of knowledge, interests or arrogance) or religious point of view (lack of knowledge, scepticism for justified and unjustified reasons, apathy from various reasons or interests). For the sake of truth, these gifted people were insufficiently used for the well-being of all in this period of time and through the history of humankind. It is high time that these people are not easily left to the agony of the past, but with an adequate professional approach and attention, people should learn more about the mechanism they possess as a gift, because they have potential to help religion and science, and ordinary people as well. These gifts can be used for the benefit of the common good so that ordinary people can have the blessed benefit of a better life.

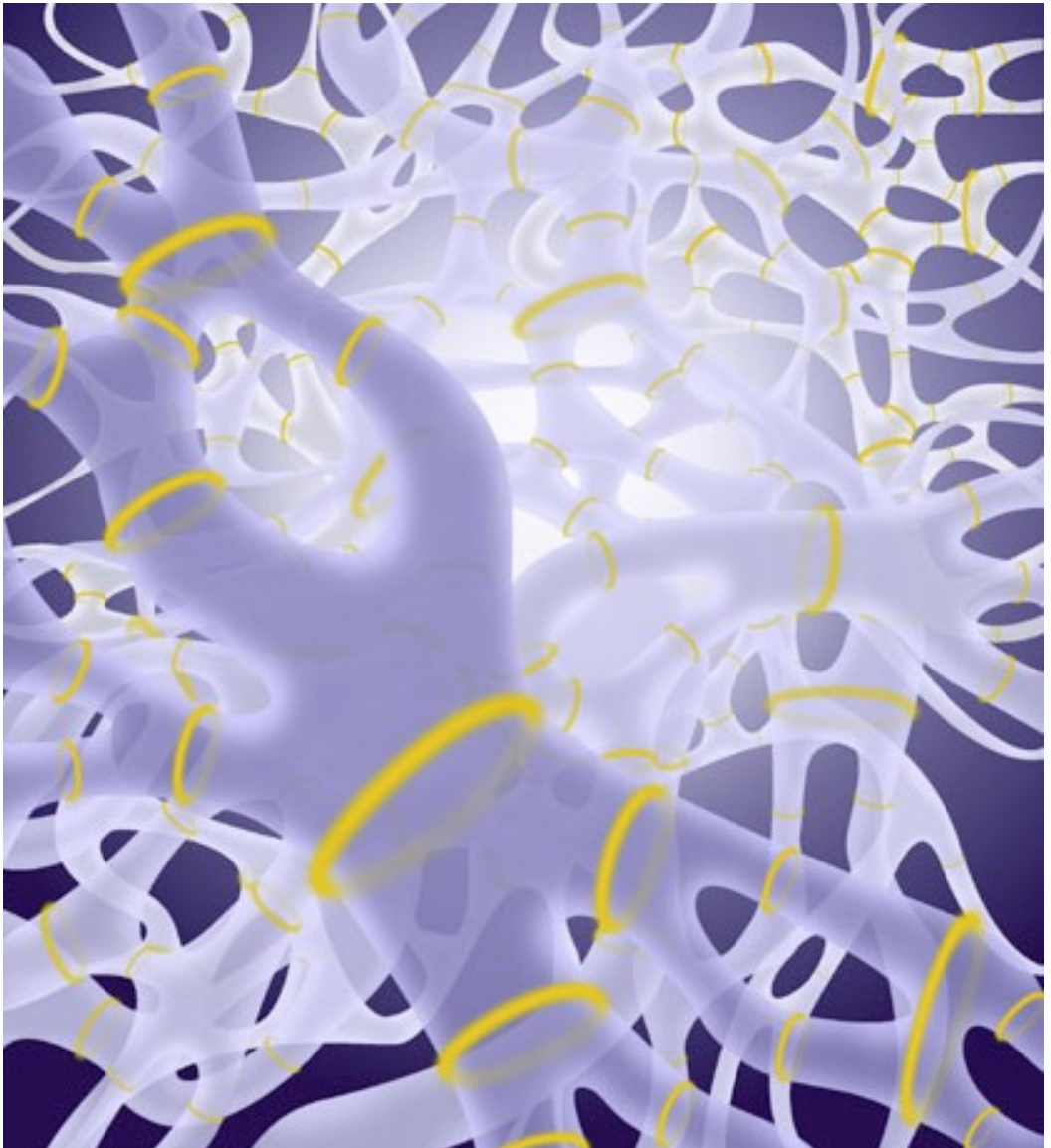
Fed “string theory,” computer reportedly explains our 3D space

Dec. 24, 2011

Courtesy of
and World Science staff

A long-controversial but popular theory of the universe has enabled a supercomputer to explain why space appears three-dimensional, some physicists say.

The human brain can't really conceive of a space with more than three dimensions, often called height, width and length. But scientists say there is no mathematical reason there can't be more such directions. Indeed, a theory of the universe called superstring theory insists there are. What outweighs this inconvenience, in the minds of its many proponents, is that this model manages to offer a unified explanation for nature's otherwise disparate building blocks and physical forces.



Superstring theory visualizes the elementary particles of nature as tiny loops that vibrate like strings. When they move through time, they trace out structures known as worldsheets. The artist's conception above is designed to help illustrate the overall idea. (Image courtesy Flavio Robles/L Berkeley Nat'l Lab)

Superstring theory—which is actually one version of a group of theories collectively called string theory—asserts that nature’s component particles can all be represented as the different ways that tiny strings can vibrate in these many dimensions. These vibrational possibilities are analogous to the possible notes of a guitar or violin string.

A frequent objection to string theory is that it’s untestable, a criticism its proponents often dispute, though it has not passed any real-world tests with wide agreement.

One thing most physicists do agree on is that the universe originated in an explosion from an invisibly tiny point. Various observations, including that the universe is still expanding in a continuation of this primal burst, support this idea. However, scientists haven’t been able to clarify how this “Big Bang” happened in detail.

In superstring theory, one of the allowed string vibrations corresponds to a particle that carries the force of gravity. Superstring advocates say this feature leads to another advantage: it brings elementary particles as a group under the reach of Einstein’s general theory of relativity—an extremely powerful model of the universe, but one that chiefly describes gravity and has difficulty illuminating the world of subatomic particles. By extending its reach into that realm, researchers believe they can also probe more deeply into the nature of the Big Bang.

A remaining stumbling block has been that calculations have been unable to account for complications resulting from interactions among strings themselves. In the new study, physicists with the High Energy Accelerator Research Organization, Shizuoka University and Osaka University, all in Japan, said they developed a mathematical method to overcome this last problem. With that, they managed to simulate the birth of the universe as though it had started with nine spatial dimensions, as claimed by superstring theory.

As the simulation went on, three of these dimensions turned out to undergo an expansion that would allow them to become visible today, consistent with reality, the scientists reported. The rest of the dimensions remained hidden. String theorists hold that unseen extra spatial dimensions are curled up so that they become relevant only at minuscule scales.

The new findings support superstring theory, and are to be published in the journal *Physical Review Letters*, said the investigators, who performed work on the supercomputer Hitachi SR16000 at Kyoto University. The research might also be extended to help explain additional mysteries, such as why the universe is expanding at an ever-growing rate, they added.

Virtual energies act as a 'reservoir' of extra energy for some gifted people, which provide further opportunity to realise these phenomenon, as well as the possibility for contact with other dimensions of existence at every level — even those phenomena connected with materialisation and rematerialisation of things. All holy figures on icons, frescoes and other paintings are depicted with larger aura fields as a sign of holiness, a sign of light (similar to our world, which is surrounded by light, which indicates the holy world), gifted for something more, and this fact should be used

for the common good and not for destroying the world together with the people and the planet as a whole. So now is the time for negativity to pass by and be over, once and for ever. This overcharged, larger QEEMR of the aura field in these specially gifted people enables the existence of this field and, by its functioning becomes a basic factor and cause for manipulation of the time-space component of our reality. Thus these individuals can disturb or intertwine with time-space — with the inter-dimensional barriers that exist for other people. The latest findings and teachings in physics, especially quantum physics, make this possible. In reference to this, perhaps the paintings in which holy figures are represented with a circle of golden light hovering over their heads are justified, as this golden circle symbolises a channel of communication, or perhaps simply represents a white hole in contrast to black holes. Gifted individuals cannot be studied readily because they are unique, and possess such specific senses that perceive everything else as unified and interconnected. Individuals who possess this ability and these feelings can learn and become aware of them. The commonly received knowledge that, in this sense, there are a lot of gifted people on Earth in this field today is absolutely untrue. It is also not true that they can teach their abilities to others, even some of their family members. This cannot be done unless there is something unique in the core of the person, so if an individual has a ability, gift or talent, they can upgrade themselves in that area. There is no other path. That is why holy persons and messiah such as Moses, Jesus Christ, Mohamed, Buddha, Tao or Krishna are unique: no one can replace them, or teach others to like them, because that is simply un-realistic.

A more professional order and standardisation of all, together with these spheres, especially those spheres that are fundamental for our survival, is needed in order to avoid speculations and manipulations — lies that lead to chaos, negativeness, miseries and darkness — in order to preserve and develop further the most valuable in humankind — our noble, altruistic nature as a reflection of light, which has been inspired in us since the very beginning. This could not, cannot and will not be debased. Therefore, a larger engagement between science and religion, through various forms of cooperation and open dialogue, becomes essential for the common good.

Keith Schwab and his colleagues at Cornell University, Ithaca (USA), physicists in quantum physics, have already succeeded in moving an object by watching

it, measuring shifts in the position of a sliver of aluminium with a device called a superconducting single electron transmitter, and they are now working on placing an object in two places at the same time. These findings were reported online for *World Science* (September 26, 2006).



Chapter 2.3

The study of radiation by form belongs to the sphere of an alternative branch of science, the sphere of para-phenomena and of so-called psychotronics or (mainly in Europe) radiesthesia. Since we know that various forms of objects possess various radiation in quality and quantity (the example with aerial and other objects), then the use of objects various in form for various activities is justified as a 'source' and condition of radiation. It is well known that pyramids emit exceptionally strong and pleasant radiation, for instance, and are used by many especially in alternative medicine even though the mechanism remains unknown. One alternative practice-radiation in China is the well-known Feng Shui, based mainly on radiation by form, among others. The best known radiation by form used by millions around the globe are mobile phones. Other combined uses appear in lasers. Scientific evidence about electromagnetic radiation dates back to the time of Maxwell, Tesla, and, later, Faraday and Key as well as many others.

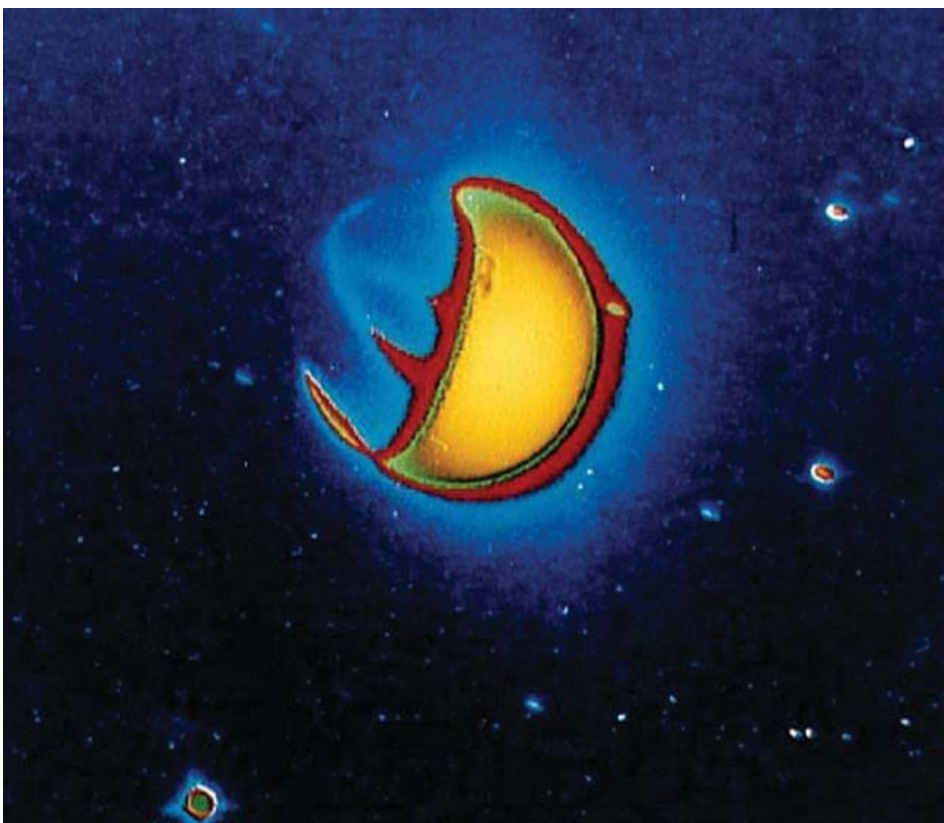
In retrospect, we can see that all temples, symbols, totems and the like made on Earth have a cupola with aerial form. Thus, the application of objects various in forms for various rites and rituals has been justified. The form of radiation depends on the angles of the object, where there is greater sharpness and where the largest electromagnetic charge is created (this could be described as an electromagnetic knife), with which the energetic rebalancing can be performed depending on the rituals or customs.

From a bio-energetic perspective, the aerial form of Man makes us exceptionally important in nearly all communication relationships of bioenergetics interactions, especially if we know that the brain on the very top of our aerial figure is a quantum electromagnetic receiver-transmitter of such

radiations. This is even more emphasised by the enormous thickness of the brain as a QEEMR centre. A result of this and other things in that sense is our unique role and place in ritual ceremonies and their, so to speak, justifiability or unjustifiability. During various ritual activities (such as meditations, prayers and similar practices), we transfer into a certain state of meditation similar to deep prayer or a sort of trance where it is the energetic level that is sensed and leads. During repolarisation of the CNS and the body, together with some centres of importance for ritual needs, which is achieved first of all by slow breathing and hypo- or hypercalcemia, comes stimulation, isolation, blocking or neutralisation of their activities at the QEEMR level, or to their activation depending on the required effect as a goal of the ritual.

As is obvious from the text and as will be seen in Part 2, thought, as well as suggestion, is nothing but energy in an individual form through its vibrations; it can give a resonance with definite centres that can be excluded or stimulated. Thus their activities can be intensified, omitted or neutralised. This can be done by initiating biochemical reactions at this level and releasing various substances (excretions of various enzymes, neurotransmitters, endorphins, morphine substances and the like) that can directly influence the required mechanisms that are in practice, or it can remain at the QEEMR level. At such a moment bodily functions are secondary, unnoticed. At such a moment physical pain is bearable, that is to say, it does not exist for the practitioner if the ritual is directed to specific activities and is gaining definite specific effects. The pain or similar 'irritations' of some parts of the body, or the whole body, seems as if it were excluded and did not exist, or as if the body were anaesthetised (had gone numb) as if it did not exist. In other cases, the ritual and its activities are directed to the surroundings. Both the activity and various evocations are directed to gain resonant attraction with certain required sources of radiation and, in that way, to act with various aerial objects to send an energetic message and to obtain an 'energetic activity' in + or – course. Various occult activities of individuals or groups are based on this. During such activities, various rituals, drinks, evocations, and so on, are used in order to achieve resonance with the required information or the object of activity, at which the required state of consciousness and the possibility to act on an energetic plane has been achieved. In theory, energetic interaction is used for so-called psychotic attacks, which are mostly of a psychogenic nature and might eventuate in even a physical anomaly in the object or of the practitioner. If the object has the required charm and resonance characteristic, the interaction is also possible, or it is not possible or is unimportant. If, in theory, we know about the instability of the subatomic particles and their duality, that is to say, their transcendence, anything can be created.

The individual who practises rituals constantly becomes a channel of them. If they are used in a negative sense, after a certain time this channel begins to regress, to attract what the individual is giving; the rotations of the subatomic particles are tuning in negative direction so that, in a way, the individual self-absorbs and self-destructs both on an



Planet Earth seen from the Moon, showing how the Earth radiates ultraviolet light, contrary to belts of aura light.

NASA

energetic and on a physical plane. From literature and other records, we can see that none of these practitioners ended their life well, nearly all being carried in to the darkness where they belonged, because in a way they created it, with violence, bad thoughts and acts.

On the other hand, if a channel works positively, for friendship, love, and so on, the individual attracts more energy; that is to say, produces such energy by automatism, by which he or she self-regulates and selfrenews. One who has once felt the feeling of universal love and universal cognition seldom or never returns to material values. This is the path that holy people, eremites, monks, nuns and so on follow, regardless of the religion to which they belong. One who

has felt universal freedom of spirit and body, and universal cognition, continues to follow this path to the light itself. That is why more and more people follow this path of self discovery and self-cognition, by which they discover everything about the world. They get to know the universe in all its dimensions of existence, forsaking material things as unimportant. Existence is a balance between the spiritual and the material. Hence, it is important to practise positive meditations and activities, because religions preach, affirm and practise through their teachings that eating habits, ethics, friendship and so forth are good.

With regard to the form of radiation, special devices in certain forms, similar to talismans (which are nothing but a form of radiation with previously gathered and directed energy) connected to amplifiers of QEEMR can be used in various cases, and they can develop such an energy that could destroy or break the metal constructions of a solid object, if the energy is strong enough and connected to some energy amplifiers. From this point of view, religious objects in an aerial form could project the energy from prayers, meditations and so on, to the believers and to other dimensions in a certain space and time. This could mean that the structures of some civilisations were built with such an intention: communication or projection of energy towards something or somebody, with or without our knowledge. This is another area for science and religion to find an answer to, and to use that knowledge for our benefit. Long time use of symbols of various forms in peoples' traditions and rites, symbolising them in a way, means those symbols have accumulated a large quantity of energy and, therefore, have power to work at an energetic level. They can be used as neutralisers, rebalancers or energisers on people in a positive sense, so their use would be justified. Together with the symbols, prayers/meditations are used as sort of catalysts. They are also used for directing concentration to what is required, without separating the mind, at which, through the charm and resonance system, the message is projected to where it is meant. This is a part of our everyday life. These religious symbols are, so to speak, central in our daily life, but are also in our subconsciousness; that is to say, in the communicative and collective subconsciousness, and in the astral forms and shapes of the energetic worlds and dimensions of existence in which mystics, holy people, hermits and so on, have worked or are currently working. Holy books justifiably deal with this as a central topic.

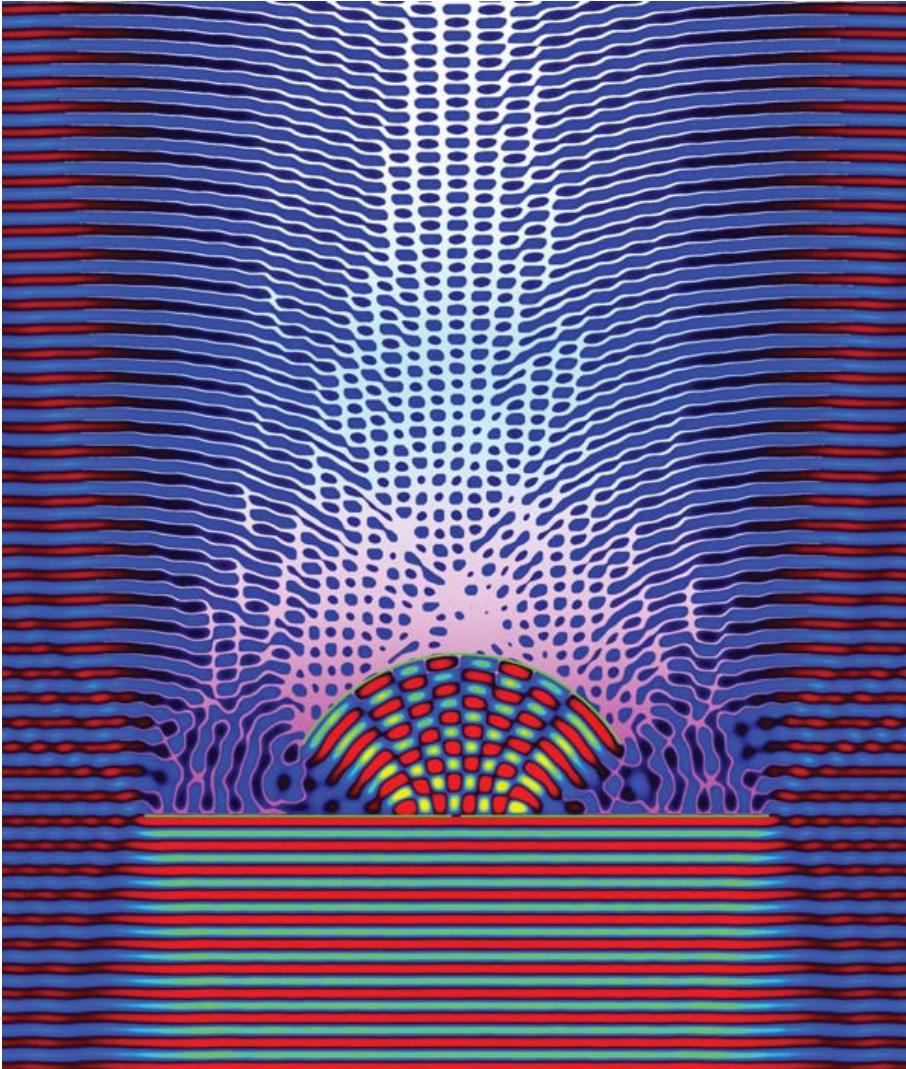
It is evident that, in places where crimes were committed, it seems as if objects and surroundings received a frightening spectrum, and it seems that the radiation from this spectrum makes people present there feel uncomfortable, terrified and the like. The same happens with buildings (the concentration camps at Auschwitz, for example) or some works of famous artists, no matter if it is music, a written work, a painting or the like. They radiate what they have, and so they spread that pleasantness or unpleasantness in their surroundings. The QEEMR component, the memorising ability and the ability to send and receive information, makes it possible. Thus we can see how universal and important all this is.

The practice of prayer or meditation, as well as other positive relaxing exercises and activities, bring peace, pleasantness and love in everything around (more in the text). Apart from being used in religious practices, meditations and prayers should be used in everyday life as sort of self-regulating, selfhelping, self-healing or relaxing techniques. A state, similar to the state of meditation or prayer, can be learnt if it is not innate. This can be achieved by teaching from certain individuals, or it can appear consciously and/or unconsciously. An innate ability can be released or stimulated by a pleasant feeling, thought or deep desire, smell, colour, pleasant sound and so on, at which, in a certain moment, a resonant activity of subatomic particles is achieved unconsciously in a part of the body, most often in an energy centre or any other part of the body, or over the whole body. An individual is not aware of its source, but is aware of the pleasantness of it. An individual can accidentally learn that he or she has some extra innate abilities for which others have trained for a long time to achieve (the same happens more often with other phenomena). Senses such as taste, smell and the like are nothing but energetic subatomic characteristics, from which their power to affect various centres is derived, and so they can initiate various states of the body and soul. Colour is also a subatomic characteristic that enables colours to cause some, very often pleasant but also unpleasant, states of the body and soul. Hence, their application in everyday life both by religions and by various practitioners for various relaxing techniques or therapeutic goals is justified.

In talking about the states of meditation, prayer, trance and the like, we should mention that the state of trance is different from meditation. Trance is more like self-hypnosis in which one loses the sense of the outer world, partly or completely; that is to say, a certain and varying number of brain centres can be blocked or stimulated, and the reaction can be automatic, half-automatic, or by order. This state can be achieved by outer or inner factors, unconsciously or self-consciously, or it can be provoked. If it cannot be controlled, it causes in some cases disturbance of cell metabolism that has harmful consequences. This state can bring a resonance of a smaller or larger number of subatomic particles, which can or cannot be controlled. With an uncontrolled and enormously large rotation of subatomic particles, more cells, organs or parts of the body can be engaged, at which the mitochondrial system for releasing energy in the cells may be disturbed, so the enormous activity of subatomic particles can cause self-deregulation. This is characterised by enormously fast and unexpected release of a huge quantity of energy from the body, most frequently from the stomach, so that in some extreme situations selfimmolation of a part of the body can occur, or even entire spontaneous combustion. At that moment the individual is not aware of the problem and does not feel any pain, but is aware that part of his or her body is 'burning' and is paralysed, unable to do anything about it. If this state continues, the individual can come out of this state and become aware of it. This state is mostly unconscious but it can be consciously initiated. Namely, under various circumstances, resonant activity of subatomic particles with an outer or inner source of radiation can occur, at which a control over the process cannot be established. Then subatomic particles can rotate with enormous speed,

releasing energy and disturbing basic cell functions. They can spread and, in a short period of time, the phenomenon of self-combustion can happen. So the resonant activity disappears and the energy of that part of the body or of the whole body drains away, which can cause the process to stop with various degrees of outcome, including fatal. Inducing factors include smells, tastes, colours, outer or inner radiations, and others.

The aforementioned characteristics of matter, such as smell, taste, colour and so on, can initiate various resonant physical activities because they are nothing but subatomic characteristics, most frequently of the quarks type. They work on our organism in a + and – sense. So pleasant music and sounds, or nice paintings and landscapes, and pleasant tastes or smells make us feel relaxed, loosened up, comfortable. This can be repeated as a relaxing technique, as a supplement to a therapy or independently. In everyday practice, more and more people are going for these alternative methods and justly, because they are scientifically tenable. The subatomic characteristics of smell, taste, colour and other physical senses affect the CNS and help it create a resonance with them, so those vibrations are carried throughout the whole body, and a state similar to meditation is achieved. At this state, more and more cells vibrate in a harmony that produces more energy. By unblocking or rechannelling the empty or blocked (for various reasons) energetic places, damaged cells are supplemented with extra energy, and so the process of self-regulation and self-healing is created. All this works as a stimulator or an initiator for releasing various necessary substances from the body which, as the process renews, improves and revitalises the damaged functions of the body for a longer period of time. That is why practices such as aromatherapy, colour therapy and sound therapy, as well as meditation/prayer, are of great importance. In cases of considerable damage, bio-energy therapy can give good results, by itself or in cooperation with medicine and/or another kind of alternative medical branch, that is to say, natural medicine within traditional or complementary medicine.



Quantum resonance.

PhotoLibrary



Chapter 2.4

The phenomena mentioned in this text, which are natural and ordinary from a bio-energetic perspective, are identified by such terms as bio-energetic phenomena, precognition, foresight, telepathy, the sixth sense and so on. Some telepathy-like phenomena have a more complex basis than telepathy itself, at which, as is obvious, there is a transmission of information in various forms and ranges, such as radio waves, images, notions, and various conceptual contents in three-dimensional bio-holograms.

Since it is well known that waves can transfer into particles and vice versa, then following this rule, when we talk about telepathy, from a material point of view and perspective and from a material starting point, we can talk about teleportation; that is to say, particles that are liable to transport through time and space, as opposed to waves that are transported through time and space as pieces of information. Namely, as the energy is being transferred in the form of conceptions, visions or thoughts, we can talk about their materialisation and about teleportation, time and space transportation and displacement/shift of particles when the energies transfer into particles.

The teaching of quantum mechanics about the real transition of waves into particles and vice versa, throws some light on the stated phenomena, making them scientifically possible, and, in a way, explains the phenomenon of a journey through time, making it possible and real at the same time. The possibility that particles, as well as waves, can feel the 'power' they carry, means that they are also aware of the information they carry, so that with the wave energetic component our consciousness in space and time can be projected as information and reality, while our BE, that is to say, our light, is recurrent and a carrier of it.

According to the theory of relativity, it can be concluded, among other things, that every object with mass somehow twists space and, in that way, time also. But they are unstable characteristics. Bear in mind that we are also carriers of mass and we also perform a sort of twisting of space and time that, while nearly incomparable with that of one of the planets or other heavenly bodies, is still real. If an energy or a particle, a carrier of a power or energy or information, is moving with a speed greater than light, and as a returning force returns to its source of emission with adequate information, then it is possible, at least theoretically, that when light travels faster than the speed of light (about 300,000 km/sec, as a constant), it can arrive at its point of departure even before it departs, violating the universal law of coincidence.

There were various breakthroughs in the scientific explanation and research into these theories in the mid to late twentieth century. In 1958, Pavel A. Chernekov, Ilyya M. Farank and Igor E. Tamm from the former USSR (Russia), were awarded the Nobel Prize for their discovery of the principle of the emission of light by electrifying particles that are moving faster than the light in the medium. Then, in 1959, Emilio Serge and Owen Chamberlain were awarded the Nobel Prize for Physics for demonstrating the existence of an antiparticle of the proton — the existence of antiproton, being an antiparticle of a proton having the same mass as a proton but opposite in electrical charge. Later, in 1980, American scientists James W. Cronin and Val L. Fitch were awarded the Nobel Prize for Physics for their studies showing that electrifying duality and time symmetry can be disturbed. In 1972, Boris Zeldovich and his colleagues created a sparkle of time recurrent light. Gerhard Luders and Wolfgang Pauli, at the Centre for Particle Theory (CPT) proved the theory that the transformation of a particle into an antiparticle leaves the law of physics untouched as long as the charge, parity and time are recurrent. Robert Boyd and his colleagues at the University of Rochester, New York (USA) succeeded in producing a laser impulse of light through an optic cable made of the element erbium. The impulse returned to its origin before it was sent out, as published in the research journal *Science* (May 12, 2006).

“Confirmed”: spinning Earth drags space along

*May 5, 2011
Courtesy of Stanford University
and World Science staff*

Researchers say they have confirmed two predictions of Albert Einstein’s general theory of relativity, concluding a project that has spanned more than half a century.

The first prediction is the geodetic effect, or the warping of space and time around a body that exerts gravitational force. The second is frame-dragging, which is the amount a spinning object pulls space and time with it as it rotates.

“Imagine the Earth as if it were immersed in honey. As the planet rotated its axis and orbited the Sun, the honey around it would warp and swirl, and it’s the same with space and time,” said Francis Everitt, a physicist at Stanford University in California and principal investigator for the project, dubbed Gravity Probe B.

Previous studies had also backed up the predictions, but less directly, the researchers said. They used four ultra-precise gyroscopes housed in a satellite to measure the effects. A gyroscope is a spinning wheel mounted in a frame that lets the wheel keep its orientation independently of the movement of the frame.

After 52 years of conceiving, building, testing and waiting, the test measured both effects with un-precedented precision by pointing at a star, IM Pegasi, while in a polar orbit around Earth, the scientists explained. A polar orbit is one in which a satellite circles Earth while going over the North and South poles on each orbit.

If gravity didn’t affect space and time, the gyroscopes would point in the same direction forever while in orbit, researchers said—but following Einstein’s general theory of relativity, they under-went measurable, tiny changes in the direction of their spin. The findings appear online in the research journal Physical Review Letters.

The test “confirmed two of the most profound predictions of Einstein’s universe, having far-reaching implications across astrophysics research,” Everitt said.

“The decades of technological innovation behind the mission will have a lasting legacy,” he added. Much of the technology needed to test Einstein’s theory hadn’t yet been invented in 1959 when Leonard Schiff, head of Stanford’s physics department, and George E. Pugh of the U.S. Defense Department independently proposed to observe the behavior of a gyroscope in an Earth-orbiting satellite with respect to a distant star. Toward that end, Schiff teamed up with Stanford colleagues and subsequently, in 1962, recruited Everitt.

NASA joined the project in 1963 with the initial funding to develop the requisite equipment. Forty-one years later, the satellite was launched into orbit. The project was soon beset by problems and disappointment when an unexpected wobble in the gyroscopes changed their orientation and interfered with the data. It took years for a team of scientists to sift through the muddy data and salvage the information they needed.

Despite the setback, Gravity Probe B’s decades of development led to groundbreaking technologies to control environmental disturbances on spacecraft, such as aerodynamic drag, magnetic fields and thermal variations, physicists said.

Innovations enabled by the project have also been used in the Global Positioning System, such as carrier-phase differential GPS, with its precision positioning that can allow an airplane to land unaided. Additional technologies were applied to NASA’s Cosmic Background Explorer mission, which determined the universe’s background radiation. That measurement is the underpinning of the “big bang theory” and led to a Nobel Prize for NASA’s John Mather.

“The mission results will have a long term impact on the work of theoretical physicists for years to come,” said Bill Danchi, senior astrophysicist and program scientist at NASA Headquarters in Washington.

By identifying and investigating antiparticles, or the ability of a subatomic particle to react as either a particle or wave, or their ability to transfer from one state to another, the set-up theory about strings and superstrings, as well as the stated discoveries and teachings about virtual particles, energies and the

discovery of the existence of antimatter, provides an enormous possibility; that is to say, the probability of the existence of other dimensions. Some scientists calculate using the number of nine and theorise the existence of more dimensions in which the theory of strings, after long mathematical practising, fitted. The existence of antimatter, antiparticles and other dimensions indicates the possibility of the existence of parallel worlds, or possible realities that exist in parallel.

Exotic antimatter finding may clarify cosmic symmetries

March 4, 2010

*Courtesy of Brookhaven National Laboratory
and World Science staff*

Physicists say they have detected the heaviest “anti-nucleus” to date, a rare specimen of a sort of mirror-image form of ordinary matter.

The finding may shed light on cosmic symmetries, and asymmetries, that explain why most of the antimatter originally produced at the birth of the universe is gone, according to scientists.



The STAR Detector (courtesy Brookhaven Nat'l Lab)

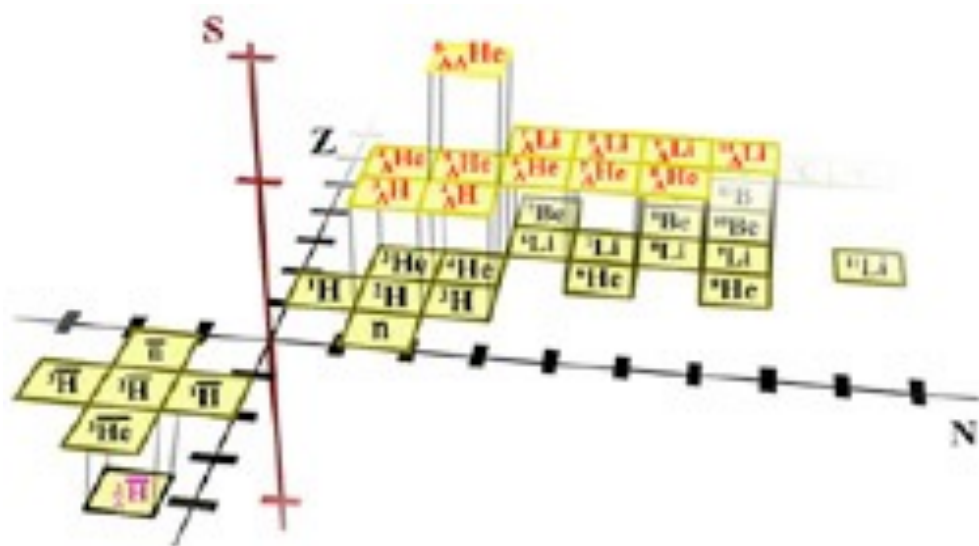
An antiparticle is a variant of one of the normal building blocks of matter that has equal weight, but is opposite in electrical charge and certain other respects, to its “normal” particle counterpart. As a nucleus is the core of an ordinary atom, an anti-nucleus is the core of an “anti-atom.”

The newfound anti-nucleus also contains the first example of a smaller, equally exotic component building block that physicists call an anti-strange quark.

The discovery “may have unprecedented consequences for our view of the world,” said theoretical physicist Horst Stoecker, Vice President of the Helmholtz Association of German National Laboratories. “This antimatter pushes open the door to new dimensions in the nuclear chart — an idea that just a few years ago, would have been viewed as impossible.”

The finding, at the U.S. Department of Energy’s Brookhaven National Laboratory in New York, may also help shed light on the workings of compact celestial objects known as neutron stars, researchers said.

The nucleus of a normal atom on Earth consists of building blocks called protons and neutrons, which in turn contain smaller components known as quarks. These quarks appear in two types, arbitrarily called “up” and “down” varieties. The standard Periodic Table of Elements is a grid arranged by number of protons, which determine each chemical element’s properties in its basic interactions with other elements.



The "3-D chart of the nuclides." The familiar Periodic Table arranges the elements according to their atomic number, Z , which determines the chemical properties of each element. Physicists are also concerned with the N axis, which gives the number of neutrons in the nucleus. The third axis represents strangeness, S , which is zero for all naturally occurring matter, but could be non-zero in the core of collapsed stars. Antinuclei lie at negative Z and N in the above chart, and the newly discovered antinucleus (magenta) now extends the 3-D chart into the new region of strange antimatter. (courtesy Brookhaven Nat'l Lab)

But physicists also use a more complex, three-dimension chart which adds information on the differing number of neutrons that can occur in samples of each element. The 3-D chart also indicates a number known as “strangeness,” which depends on the presence of so-called “strange” quarks. Nuclei containing one or more strange quarks are called hypernuclei.

For ordinary matter without strange quarks, the strangeness value is zero and the chart is flat. Hypernuclei are charted on a separate grid, which is shown as if hovering above the

standard table. The new discovery of strange antimatter with an antistrange quark—an “antihypernucleus”—marks the first entry below the standard grid, scientists explain. The bizarre particle was detected as a result of high-speed collisions of gold nuclei at the Relativist Heavy Ion Collider, the Brookhaven laboratory’s atom smasher. The results were published March 4 on the online edition of the research journal Science.

The study of the new antihypernucleus also yields a valuable sample of hypernuclei, and has implications for our understanding of the structure of collapsed stars, called neutron stars, researchers said. “The strangeness value could be non-zero in the core of collapsed stars,” said Jinbui Chen, one of the lead authors, of the Shanghai Institute of Applied Physics and a postdoctoral researcher at Kent State University in Ohio. The new measurements “will help us distinguish between models that describe these exotic states of matter.”

The findings also pave the way for exploring violations of fundamental symmetries between matter and antimatter that occurred in the early universe, making possible the very existence of our world, physicists added.

Smashups between atomic nuclei at the collider are believed to fleetingly reproduce conditions that existed a minuscule fraction of a second after the Big Bang, which scientists believe gave birth to the universe as we know it some 13.7 billion years ago.

In both events, quarks and antiquarks emerge with equal abundance, according to physicists. At the laboratory, among the collision fragments that survive to the final state, matter and antimatter are still measured as close to equally abundant. In contrast, antimatter appears to be largely absent from the present-day universe.

“Understanding precisely how and why there’s a predominance of matter over antimatter remains a major unsolved problem of physics,” said Brookhaven physicist Zhangbu Xu, another one of the lead authors. “A solution will require measurements of subtle deviations from perfect symmetry between matter and antimatter, and there are good prospects for future antimatter measurements at RHIC [Relativist Heavy Ion Collider] to address this key issue.”

In a single collision of gold nuclei at the collider, many hundreds of particles burst out at the point of the crash. Most of these don’t actually come from the previously existing, colliding objects as such. Rather, they are formed from the energy of the collision, by the conversion of energy into mass in accordance with Einstein’s famous equation $E = mc^2$.

The particles leave telltale tracks in a detector hooked up to the collider, called the STAR detector. Scientists analyzed about a hundred million collisions to spot the new antinuclei, which aren’t directly detectable themselves but are identifiable through the byproducts into which they disintegrate. Altogether, 70 specimens of the new antinucleus were detected.

STAR detector scientists, who come from 54 institutions in 13 countries, say they should be able to discover even heavier antinuclei soon. Theoretical physicist Stoecker and his team have predicted that strange nuclei around double the mass of the newly discovered state should be particularly stable.

Thunder and lightning happen at the same time but, because of the different rate of movement of sound and light through space, we see the light first (the lightning or the flash) and then hear the roar or the thunder, the sound whose speed of movement is slower and reaches our senses later. In a meditative trance state, achieved consciously or unconsciously, automatically or enforced, an individual can have an ability to disturb the time and space barrier and get information in a given form, mostly as three-dimensional images or bio-holograms, or symbolised messages as notions and the like understandable by the individual, so that prediction of some events, incidents or the like can be done. With the ability to project recurrent light containing given information, we can become aware of many things not only about our past but also about our present as well as our future, in virtual form or possibility or something in between. The lights of stars move with the speed of light so that the lights we see now are, in fact, outdated as we might say. This means we have the image of the universe as it was earlier, maybe more than billions of light years ago (one light year is the distance that the light travels in a year; the speed of light is calculated at around 300,000 km/sec). What the present image of the universe is we do not exactly know. If we had a technology and devices capable of sending and receiving a returning answer with a speed greater than the speed of light, we could learn many things about the universe, from its origin until the present moment. We could learn more about the stars and about ourselves at the same time. According to all that is stated earlier, the bio-energy of the individual enables the same reception of recurrent information in a form of bio-holographic messages not only from the past (for example, individuals from our everyday life who 'evidently' have had abilities to predict) but also from the present and future. This conscious or semi-conscious reception of information, leaving our well-known presence and setting out on a journey through the energetic worlds or possibilities, enables the existence of astral projection. Its characteristic is that, in a given state of prayer or meditation mentioned previously, some individuals have a capacity to transfer their consciousness — whether consciously, semi-consciously, forcefully or in states of trance — in certain parallel worlds and dimensions, from where they can obtain information.

According to the theory of bio-energy and its essence, the stated phenomenon (similar to phenomena such as premonition or sixth sense, prediction, foretelling.- more later in the text...), in the process of 'tuning' through Man's charm-resonance system, or as it is commonly accepted through a medium as a subject, a sort of resonance activity is achieved with the object of the required activity and a resonant interplay is conducted between them. In this case, the bio-energy of the medium is transported to the subject, which can be an object, a person, an event, and so on. It can be a future or a virtual subject and, therefore, liable to change; or it can be real, past or present, that is to say, already realised, without any possibility for direct impacts at this and other levels. In that phase of resonant interference, through observation, this object

of interest is memorised in the bioenergetics component of the medium and transported back to the medium. This does not mean literally transported through space and time, but is more symbolic as this process is more present and happens in the inside world of the medium, which means that there is no 'journey' in the true sense of the word, but it is an energetic 'displacement-transportation or shift' of the consciousness in the homogeneous continuity.

Since these phenomena need BE, that is to say, photon light, the QEEMR field of the medium is a peculiar generator and a fuel for these processes and journeys, so it can become used up, exhausted by losing its energetic field when used as an 'inter-dimensional communication/communicator'. The medium can become completely or partly aware of this interaction and, depending on his or her power, is able to present these interactive memorised activities with the object of interest more or less precisely, with more or less details about it. In this context, it should be mentioned, again in accordance with quantum physics that, during this process of memorising the event, object or the like, clear precision cannot be obtained for various causes, which can or cannot be explained. In general, it can be said that, according to the uncertainty principle, the image or event (this refers more to some events that could happen) is virtual without definite shape or ending, because of the possible changing of reality in this expected moment. It seems as if it were about probable realities in a virtual world, that is to say, as if all this were still in a form of wave interplay that had not achieved a final materialisation, at least not the one we comprehend in the reality in which we exist. It can simply be described as if it all happened somewhere between dream and reality, but it is still real.

This can be qualified in a simple way. For example, the medium can have a vision about an event, such as a car accident, but the car is obscure. The individual may think it is a Mercedes, but after a time (days/years) the accident happens in the same or a similar scenario, and the car is a Ford. In this case, the uncertainty gets a form but with a different yet similar scene. In fact, the virtually seen possibility comes true, but the person was not the owner of the car, the car was not a Mercedes, and it belonged to another person who is not as important as the realisation of the event. The ending is generally the same, only the peripheral images change without having a direct effect on the final outcome of it.

From a bio-energetic perspective, this is very important because nearly all predictions in the holy books, as well as those of Nostradamus, engage the principles already described. Because we deal with energetic-wave actions, there is a sense of an interplay among the waves of the events, people and the like, by the astral-energetic phenomena and the medium, so if the medium is a specially gifted person of essential importance, he or she can have an ability and influence, in the right sense of the word, with such interplays to participate directly and influence these events even at the beginning, no matter whether they are descriptions as scenes, notions and the like, or symbolic images of a local or general type that can refer to the whole of humankind. It means that these gifted individuals have a sort of seal of approval from something or

somebody as a higher or the highest authority in that sphere, so that it can directly influence them and change them and humankind to be a direct observer in the right sense of the word! This is the case with holy people or messiahs, people unique in the history of humankind, such as Jesus Christ — observers of reality with a power and a permission to influence events directly according to God, for the benefit of humankind. Most often, these exceptionally important people are predicted by other gifted individuals, and proved in that sphere by themselves in a very special and unique way and manner.

The case of Nostradamus parallels those who have had confirmed visions about common human catastrophes or something similar. These mediums are like observers of these visions and are their narrators, but are not direct observers in the true sense of the word. People who have permission, by their evaluation and the will of a superior being and Lord God Himself, to influence and change the endings of events and the like, possess the power of 'superior interference from a position of a superior and one and only direct observer'. As direct observers of these events of interest, they are also involved in an astral dimension activity, changing the content of the event that follows to produce a different ending in this reality. In the course of this, bearing in mind the critical stages of certain events, it can be observed that if, for example, an extremely important event is occurring, and all at once, after people become involved in the events at an energetic-astral field level, something unexpected happened 'out of the blue' for the protagonist, for instance, in a negotiation. In that moment, events all at once take a different and unexpected course and strive after a different outcome whether they are diplomatic, political or military actions of global character. This is somehow completely sudden and incomprehensible, both for the public and the active protagonists in these events, in which the observer may have absolutely no contact even though the outcome is determined according to their will.

The same can happen not only to current events that could disturb the balance at a global plane and development in a negative sense, but also to already predicted visions and possible events that were described by some individuals in the past and are expected to happen on the basis of an already taken course of events in that direction; and they also refer to a negative outcome with catastrophic consequences for the world, humankind and its future. Here, the individual as a direct observer becomes unexpectedly involved in the vision: by tuning, he is already in that field and the place of happenings and possible interplays. This predicted vision exists as such somewhere and, therefore, it is described as waiting for the right time during such moments and events that have come out of relationships, wishes, intentions and plans of the active protagonists in the process, so that it can be realised on the basis of a series and all moments of development. The ability, primarily of the spirit, and faith of the observer enables him to have the role of a superior observer. With his astral activities and via somebody, or with some astral energetic power instead of common human reality, through interplay of these visions and astral projections in an initial wave energetic form (or thanks to interference from another person in these visions and their power at a BE level, and all this with

permission by the will of somebody as a higher authority at this level), all of a sudden they can observe and cause them to become opposite in various forms, or nullify them. This is the reality that religions are keeping at the level at which they are, and in which their power as a testament of truth lies.

When talking about phenomena such as visions or prophecies, there is no precise terminology to describe them, but they can be described approximately by notions. The person who has an experience with such phenomena can understand them completely or partly, depending on lots of things connected with his or her personality. On the other hand, they are so unusual and maybe that is the reason they are still where they are; slowly and surely they are coming to light with deserved respect. It will be opened only to a few who have varying degrees of understanding and power for change.

It has already been said that each particle is aware of the power it carries, and with that of the energy. Hence, if the energy carries power or some information, it is aware of that power or information. Bio-photonic energy (electromagnetic or other existing energy) is aware of what it carries and presents, that is to say, what it is meant for. Thus it finds its way rightly to where it belongs or to where it should go.

Since we live in almost homogeneous continuity, we are able to be in contact with these energies and, in a way, to be aware of their interactions. In this case, the interactions of the energies would reflect to our energetic field or to our consciousness as unchanged pieces of information or messages in a live, three-dimensional bio-holographic form. It is another question whether we have the ability, knowledge, power and the like to detect and realise that. Because these energies and particles can move with speeds greater than light, and can break the symmetry of time and space and return to us, attracted by their origins, and since the energies that are faster than light give an image of a channel, the descriptions of this energetic journey have been depicted as a journey through a tunnel. In a visible field, every movement with or greater than light speed gives an image/picture of a journey through a tunnel and that is just what is mostly and universally described by the practitioners of these and similar phenomena, and it is also described by people with a near-death experience. Perhaps these pieces of information are attracted by the strings that have quarks subatomic particles at their ends with a charm-resonance system and, so attracted, they travel through these 'tunnels' projected in a certain part of time and space ... So in these cases we are talking about time travel or/ and inter/ intra dimensional travel/ visiting.... When they return, they can carry information as witnesses of some events, energetic or material energetic forms of existence in some other dimensions and so on. All this has similarity with and is closely connected to life-after-death experiences or with near-death experiences, that is to say, the phenomenon of an out-of-body experience, and could represent a sort of astral projection, only the events that had caused it being different.

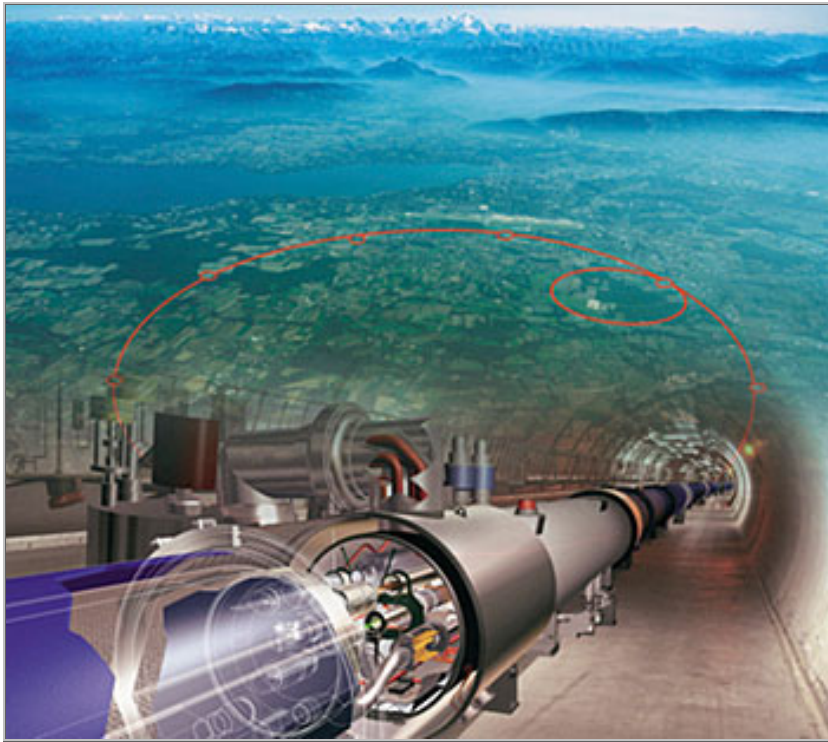
Particle smasher might also act as time machine, scientists say

March 30, 2005

Courtesy of David Salisbury/Vanderbilt University
and World Science staff

The world's largest particle collider may also be the first machine that can make things travel backwards in time, two scientists say.

"Our theory is a long shot," admits Tom Weiler, a physicist at Vanderbilt University in Nashville, Tenn., "but it doesn't violate any laws of physics or experimental constraints."



A composite illustration of the Large Hadron Collider, the world's most powerful particle accelerator. Shown in the background is the landscape on the French-Swiss border where the accelerator lies underground. (Courtesy CERN)

Particle colliders are designed to smash atoms or subatomic particles to find out what components make them up. The world's largest such device, the Switzerland-based Large Hadron Collider, went into operation in 2009 and is also intended to possibly reveal the existence of a subatomic particle called the Higgs boson. This is an entity that physicists invoke to explain why other components of atoms have mass, or in plainer terms, weight.

If the collider succeeds in producing the Higgs boson, some scientists predict it will also create a second particle, called the Higgs singlet. Weiler and colleague Chu Man Ho, also of Vanderbilt, theorize that these singlets should be able to jump into an extra, fifth dimension where they can move either forward or backward in time and reappear in the future or past.

The theory "avoids all the big paradoxes" that normally come up with time travel, Weiler said. "Because time travel is limited to these special particles, it is not possible for a man to travel back in time and murder one of his parents before he himself is born, for example. However, if scientists could control the production of Higgs singlets, they might be able to send messages to the past or future."

The test of the researchers' theory will be whether the physicists monitoring the collider begin seeing Higgs singlet particles appearing spontaneously along with products of their own decay, or breakdown. If they do, Weiler and Ho believe that they will have been produced by particles that travel back in time to appear before the collisions that produced them.

Weiler and Ho's theory is based on a so-called "theory of everything" called M-theory. A small cadre of theoretical physicists have developed M-theory to the point that it can accommodate the properties of all the known subatomic particles and forces, including gravity, but it requires 10 or 11 dimensions instead of our familiar four. This has led to the suggestion that our universe may be like a four-dimensional membrane, called a "brane" floating in a multi-dimensional space-time called the "bulk."

According to this view, the basic building blocks of our universe are permanently stuck to the brane and so cannot travel in other dimensions. There are some exceptions, however. Some argue that gravity, for example, is weaker than other fundamental forces because it spreads out into other di-

mensions. Another possible exception is the proposed Higgs singlet, which responds to gravity but not to any of the other basic forces.

Weiler began looking at time travel six years ago to explain anomalies seen in several experiments with neutrinos. Neutrinos are nicknamed ghost particles because they react rarely with ordinary matter: Trillions of neutrinos hit our bodies every second, yet we don't notice them because they zip through without affecting us.

Weiler and colleagues Heinrich Päs and Sandip Pakvasa at the University of Hawaii devised an explanation of the anomalies based on the existence of a hypothetic particle called the sterile neutrino. In theory, sterile neutrinos are even less detectable than regular neutrinos because they interact only with gravitational force. As a result, sterile neutrinos are another particle unbound to the brane and thus theoretically capable of traveling through extra dimensions.

Weiler, Päs and Pakvasa proposed that sterile neutrinos travel faster than light by taking shortcuts through extra dimensions. According to Einstein's general theory of relativity, there are certain conditions in which traveling faster than the speed of light is equivalent to traveling backward in time.

Weiler and Ho described their new research in a paper posted March 7 on the research website arXiv.org.

Namely, during astral projection, the material body is consciously left. This conclusion is based on the experience by some practising mystics and also by military experiments in the past when subjects were asked (while meditating and doing astral projection laying on a table) to identify coordinates of their location from a map, apparently with good results. The general conclusion is that these phenomena are consciously initiated, although there are reports of disturbing cases and devastating experiences when unwilling subjects were involved. The original source of these occurrences is unknown. They have been practised at times by hermits and those in the occult, and its projection (it is difficult to say whether this is a transferral of the energetic body or a part of it, a transfer or shift of consciousness or part of it, or a special dream state that is an automatic telepathy very close to clairvoyance — without any concrete studies of these cases no final conclusion is possible)

is probably in some energetic sphere or dimension of existence. In the other cases this experience has most often been caused by an accident or violence, at which the individual's bio-energetic cover has suddenly been lost, but which can be returned if it is attracted by the body or by another known or unknown insertion, power, principle or regulation; or it can remain projected in time and space for ever, projected in some other certain dimension; or stay memorised at the same place of accident or similar situation or somewhere in our surroundings, waiting for its future, its destiny or something else out of our understanding at this level (for example, other spiritual phenomena).

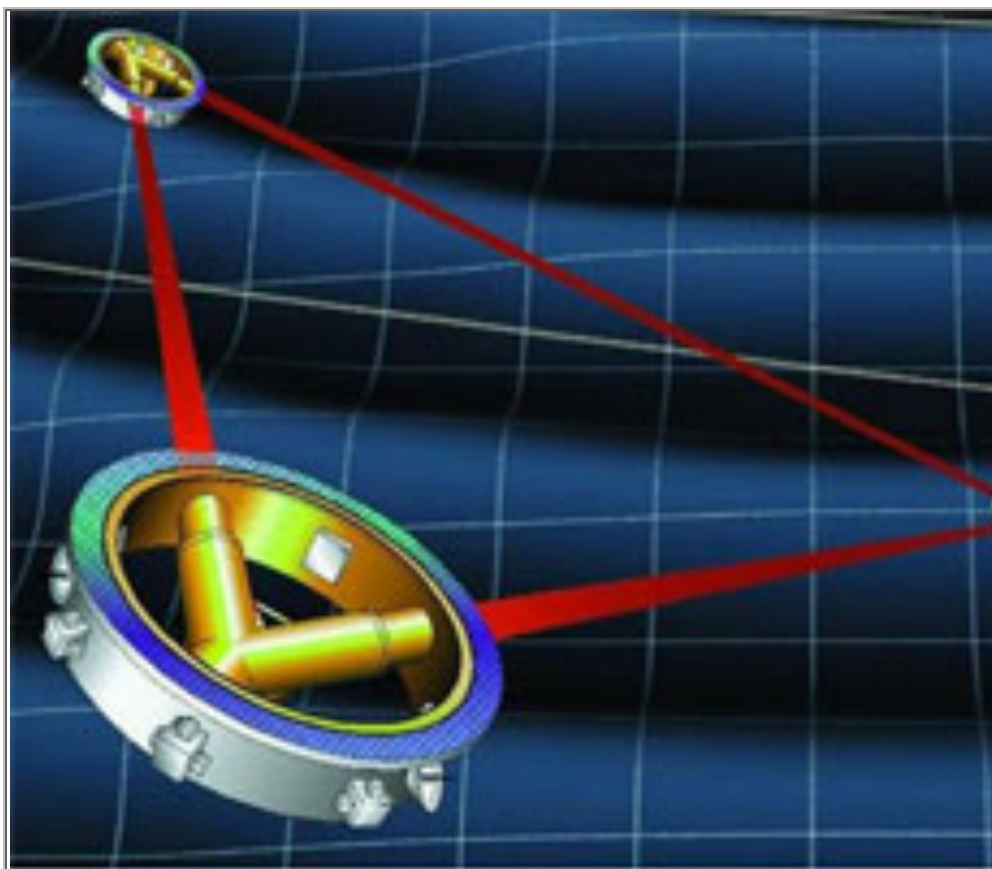
It is commonly known that the near-death phenomenon is described by many people regardless of age, religion or race, or their believing or not believing in something. This phenomenon has been 'repeated', described equally by people of all categories, regardless of their external characteristics, religions, nationalities or beliefs, and their stories are nearly identical.

Did the universe once have fewer dimensions?

March 16, 2011
World Science staff

The familiar three dimensions of space—height, width and length—may have been just one or two when the universe was formed, some physicists say.

In the March 11 issue of the research journal *Physical Review Letters*, a scientific team proposes a test of the theory using a planned, space-based observatory for gravitational waves. Gravitational waves are ripples in space and time predicted by Einstein's theory of relativity.



The LISA gravitational wave detector consists of three satellites that would pick up gravitational waves from distant, large-scale events, such as the Big Bang. (Courtesy NASA)

The proposal is also summarized in an article in *Physical Review Focus*, an online magazine of the American Physical Society, which also publishes *Physical Review Letters*.

Although the theory is speculative, the report says, the researchers think existing data has already shown hints of vanishing dimensions at early times.

According to the report, their proposal holds that the familiar three dimensions of space could have been folded into two or just one at extremely high energies and temperatures. Such conditions characterized the universe just after the “Big Bang” that gave it birth. As the universe cooled, in this view, more spatial dimensions would have appeared one by one.

The theory also proposes that our current universe has four spatial dimensions, but that we only experience a three-dimensional “slice” of it, the report goes on. The appearance of the fourth spatial dimension would have given rise to extra energy, triggering a boost to an ongoing expansion of the universe. This might in turn explain an accelerating expansion of the universe that was discovered in 1998 and is usually ascribed to a mysterious “dark energy” pervading space.

The theory also solves some problems in particle physics, said one of its proponents, physicist Dejan Stojkovic of the State University of New York at Buffalo, according to *Physical Review Focus*.

Evidence of vanishing dimensions may already have been detected in cosmic rays, high-energy particles from space that shower the Earth’s atmosphere, the report explains. A 2005 reanalysis of cosmic ray data showed that the jets of particles produced by the most energetic cosmic rays were aligned unexpectedly close to a flat plane, which, they argue, could point to dimension reduction.

Other researchers plan to use the Large Hadron Collider, a particle accelerator near Geneva, Switzerland, to test for vanishing dimensions, the publication said. The machine smashes subatomic particles to reveal what their components are. If dimensions vanish at very high energies, the thinking goes, then the particles produced in such collisions would be confined to a two-dimensional plane, like a piece of paper, instead of a three-dimension volume, like a box.

But interpreting the accelerator data may be tricky because different models will have different predictions, Stojkovic said in the report. So he and Jonas Mureika of Loyola Marymount University in Los Angeles looked for a more definitive test. They settled on gravitational waves—ripples in space and time caused by violent events in the cosmos. These waves can’t exist in fewer than three spatial dimensions, said Stojkovic. So in the vanishing-dimensions hypothesis, he told *Focus*, “you can’t get around the non-existence of gravity waves” at the earliest times.

Gravitational waves reaching Earth are expected to have originated at different times, because they can take a long while to get here. Some would presumably come from the earliest eras of the universe, according to scientists. Proponents of the vanishing-dimensions hypothesis say that the primordial gravitational waves with the highest frequencies—that is, those that oscillate fastest—correspond to the highest energies and the earliest times. So there should be a maximum frequency of the observed waves; higher frequencies couldn’t exist because they would come from the fewer-dimension era.

Stojkovic and Mureika have developed an estimate of this frequency cutoff: about 10,000 oscillations per second, depending on certain factors. They say this is within the range accessible to the Laser Interferometer Space Antenna, or LISA, a space-based gravitational wave detector planned jointly by NASA and the European Space Agency. Stojkovic and Mureika said they are working with experimentalists from several U.S. universities to prepare a test of their proposal, though this would be about a decade away.

This range of frequencies “is extremely interesting to probe by observations, if that is possible at all,” Martin Bojowald, a theorist at Pennsylvania State University in State College, told *Focus*. He said the paper is “promising, if one tries to draw reliable conclusions in the absence of a detailed underlying theory.”

The existence of telepathy enables the existence of teleportation. Related phenomenon can be found in the holy books, where the whole being of somebody, mostly of the holy people, has been transported to their pupils or to people carrying certain messages. This state is possible and is further connected with telekinesis and levitation. All these phenomena are states peculiar to humans that can be conscious or unconscious, trained or self-taught. The process of levitation, for example, can be observed and interpreted from a bio-energetic perspective similar to the mechanism, as previously mentioned, of telekinesis. With a change in the QEEMR polarity of a body, that body can be removed from its base, controllably or not, and projected somewhere to hover or levitate. This change of polarity in the body can be done consciously, unconsciously or by various other manipulations. The human CNS has a potential to control its realisation and to reduce it to pure automatism.

Teleportation can be identified with telepathy because telepathy means a transfer of thoughts or notions: there is a transfer of waves or energies in a form of information. In teleportation, therefore, these waves are replaced by particles with their materialisation (on the principle of transferring photons from a wave to a particle, and vice versa, as well as the same principle when electrons transfer from particle into wave, and vice versa), so that we have a transfer of material things in time and space, or a displacement of them. In this case, they can be transported as material things or the energetic nature can be transported in time and space, while materialisation can be realised during or at the end of the process.

Bending metal objects is a sort of ‘psychokinetic’ activity. By projecting Man’s QEEMR, there is a change of the electromagnetic powers and the powers that maintain the structure of the object. In a way, this causes the movements of subatomic particles to slow down so that the forces in the object change, and it can change its form easily until its termination. It can be terminated without damaging the structure of the object; separating the molecules, which in a way remain intact, being separated but not cut off. This separation occurs as a result of the disrupted powers that cannot hold the molecules compact. They allow their separation but not their destruction, as is the case when the object is violently broken, cut and the like. This principle can also be used to explain some forms of healing.



PhotoLibrary/Pasieka
Quantum model for transportation of matter

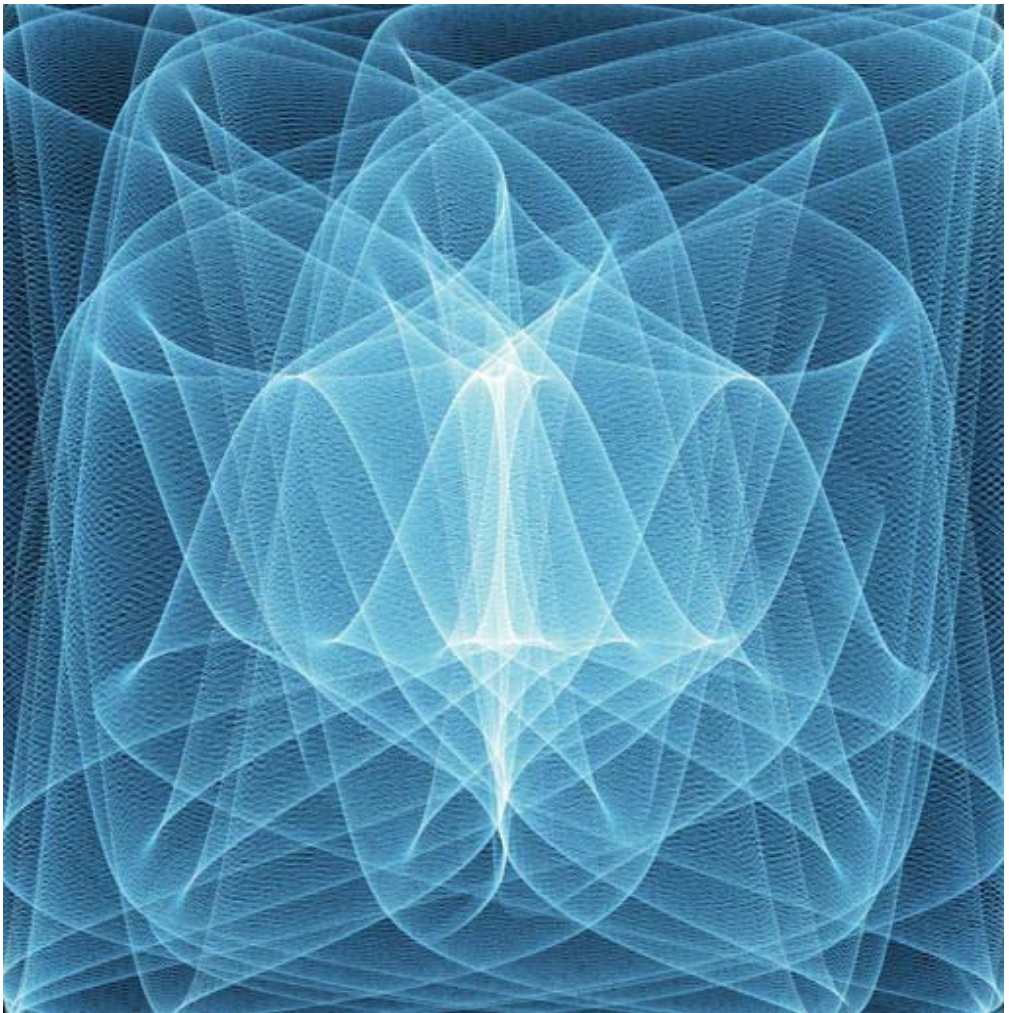
The principle of splitting atoms with QEEMR would be similar to the case when powerful magnets are used to destabilise the electromagnetic pulse (EMP) of atoms and split them. One e.g. of kinetic ability is bellow (unfortunately this kind of phenomena are described by the press and later to find out that there

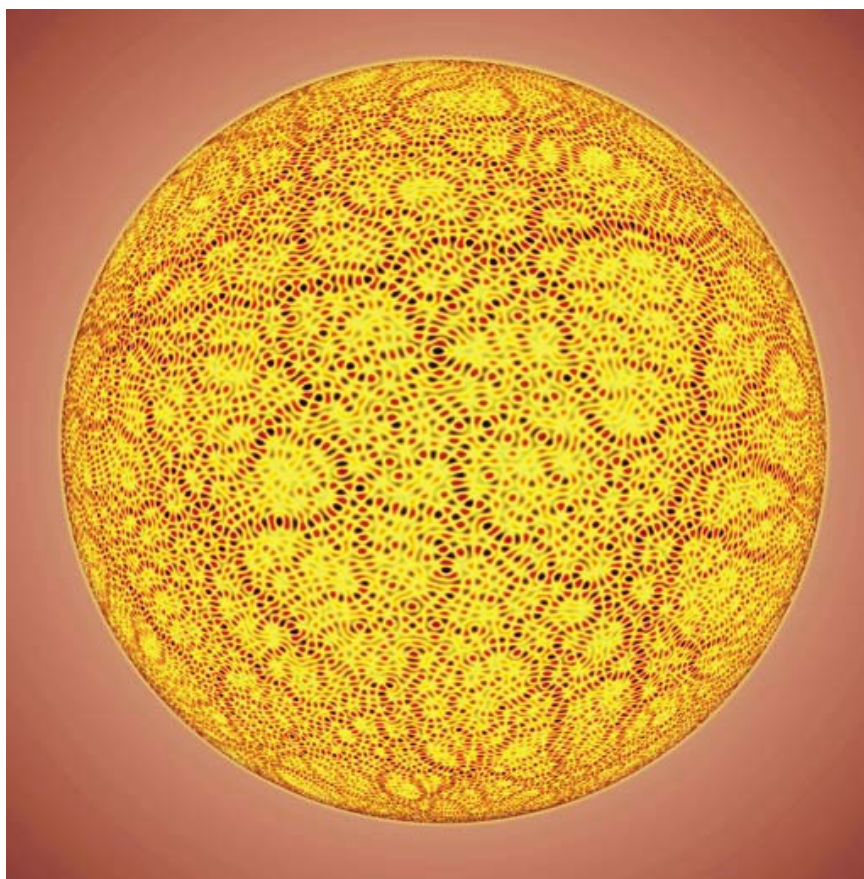
were secret military tests on same subject in secret location...). What is stated in this book is partly presented here.

The healing, that is to say, super-healing and similar healing (shaman rites and rituals), belongs to the mentioned phenomena as a 'member of the same 'family', besides other unmentioned ones. Depending on the ability of an individual to perform it, this kind of healing can have an unlimited number of performances and names, but essentially it is about nearly the same principle. We know from quantum mechanics that photons can act both as a wave and a particle. It seems that the QEEMR of an individual influences their behaviour. During these phenomena, under the influence of QEEMR of the individual, the particle or wave has its trajectory but, as with virtual particles, these are virtual until they are materialised; this happens sooner or later, when they transfer from a state of wave to a state of a particle, and materialisation takes place. In fact, practitioners (specially gifted shamans, healers, mediums — but not all of them!) first influence the wave component and then materialisation follows. The practitioners are like observers of the interplay of wave components, first at the virtual level, and then with materialisation. Hence, the use of smokes, various dissolved salts in water, vocalisation, smells and the like is justified, since it is a practice widely used not only by religions but also by other ritual and traditional forms of spiritual and similar healing work. Being wavy, these components help the individual in his or her intentions and efforts to overcome the obstacles to the outcome sought until the satisfactory material effect has been achieved. With their waviness, various substances that dissolve other substances are included here and are widely known as universal solvents, and with that conductors of QEEMR; such as water and various water solvents, for example, salt and water, sugar and water, various etherise oils and aromatic salts of incense, basil and so on. On the other hand, various symbols in various forms and colour, and of various materials, also act in this direction, specially when they are submerged in water or other liquids in order to release and make ionised solvents (for example, silver in water and the like), which are used completely justifiably at ritual ceremonies in our everyday life, conducting repolarisation and neutralisation by deblocking various energetic phenomena, happenings, energetic blockages, in and around the human body, in its aura field and its surroundings.

Humans exist as a spiritual-material aerial intelligent creation but simply said, at the same time, we exist as a wave and as a particle. In other words, as a more complex spiritual-material creation we, in our own way affect our surroundings and are objects of influence in space and time. Every wave has an intensity (a geometrically described height of wave and phase), as well as a length (a horizontal path of wave movement). As an example, a wave on calm water that is moving towards the shore or an obstacle has specific characteristics, and especially with its phase it comes into contact with the surroundings and is of more or less importance, of greater or lesser interest, noticed or not by an individual. Whether they are 'good' or 'bad', an individual's wave nature 'suffers'. It can weaken by negativity, that is to say, by energies that are contrary to his or her wave nature; or it can intensify by positive

characteristics of contact, by the principle of letting light through an opening, at which dark and light lines appear, depending on whether the waves overlap with their minimums (dark lines) or with their maximums (light lines). In this way, an individual





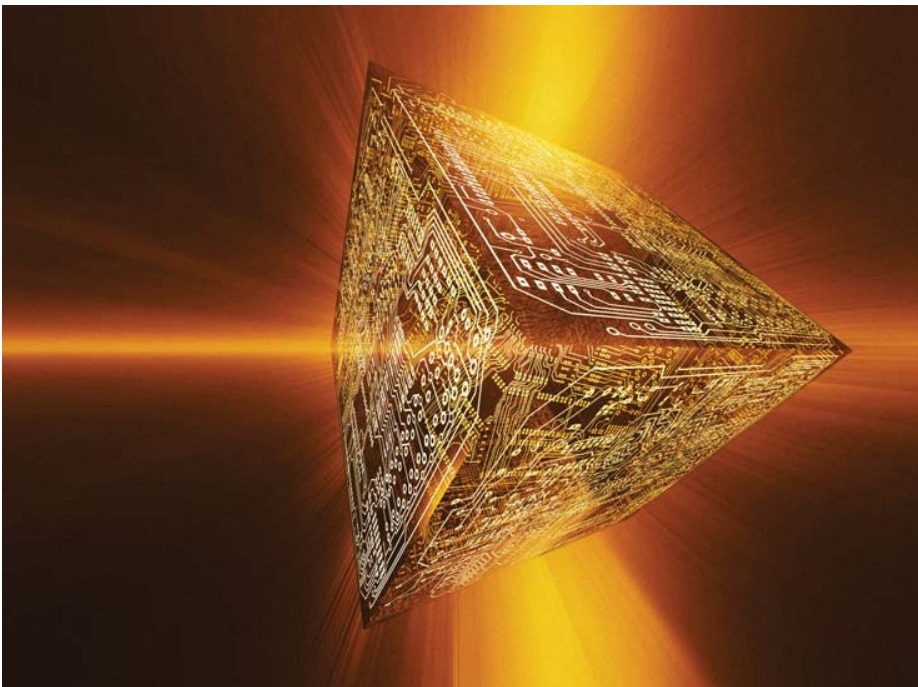
Wave formations (top) and Quantum waves (below).

PhotoLibrary/Eric Heller

can more or less perceive this interplay as a feeling, and more or less react to it. Some individuals will feel discomfort or heaviness in their stomach and head, a common uneasiness and the like, at the lessening of the wave field, when the BEF of a person during an interplay experiences waves that are opposite to his or her wave characteristics, or to information from any sphere or field that the individual has or experiences. Some individuals will have nice sensations of comfort, pleasantness, friendly feeling, pleasure, spiritual joy and the like during positiveness and an increase of their BEF (contrary to negativeness). This is all connected with the sixth sense known as precognition, having a gut-feeling or a hunch (more explanation later in the text in the chapter about bio-energetic phenomena...). An individual with an ability to detect and analyse the contact interaction in the right way and at the right time is conscious of and therefore more able to discover the real essence of that sensation. They may have, in a way, precognition about what it refers to and so will sense what is coming, that is to say, be able to anticipate it, avoid contact or negativity with

no problem at all. An individual with strong, well-developed senses and methods to decode and understand bio-energetic interactions can be considered a medium. With education, detecting 'bad feelings coming' from potentially negative interactions will allow us to avoid those interactions, and problems will never occur.

Researchers at Lund University (Sweden) examined the behaviour of particles using the analogy of the ripple created when dropping pebbles into water. Imagine dropping a pebble in a pool at exactly midnight. Now envision choosing, instead, to do the same thing, but to wait one additional instant before dropping. The two acts would be expected to produce waves with the same amplitude (height), but a tiny phase difference. In the case of an electron-wave, scientists in the new research said they have developed a technique for measuring its phase using brief light pulses. In their experiments, a light pulse was aimed at an atom of the element argon, so as to smack an electron out of the atom. The electrons emerge with different phases. They also start to interfere with each other, not unlike the way waves from two pebbles dropped in a pond interfere and create patterns. A close study of the interference patterns produced by the two pebbles would tell you the phase of each of the series of waves that went into producing that pattern. In the same way, scrutinizing the complex interference patterns of the electron-waves in the experiment reveals the phase of the electron-waves.





Opposite Quantum computerisation.

PhotoLibrary/Mehau Kulyk

Scientists from Mount Sinai School of Medicine in New York, studying autism and the hormone oxytocin — the hormone that has a positive effect on autistic patients — showed that oxytocin, which is extracted from the brain, increases the trust of autistic patients towards people who look after their money. Other findings reported in *Nature* (June 2, 2005) and *Biological Psychiatry* (August 10, 2006) concluded that, apart from other things, these patients showed 'greater' ability at mind-reading, that is to say, the 'emotivity' of the person who was talking.

Bizarre “quantum” behavior noted in device large enough to see

March 22, 2010

*Courtesy of Nature Publishing Group
and World Science staff*

A device large enough to be seen with the unaided eye has been made to show “quantum” behavior, a possibility that previously applied only to much smaller objects, physicists say.

Quantum behavior is a set of seemingly non sensical rules that scientists have found to apply most clearly at atomic and smaller size scales. Here, objects behave as they present themselves in experiments in paradoxical ways, for instance, as though they were in two places at once, or possessed of other mutually contradictory properties.

Because no physicist has yet found clear and widely agreed upon ways to avoid such conclusions, this strange picture of reality must be taken more or less as a given in experiments at the quantum realm.

The bizarre effects fade away at larger sizes because as more particles are added in to a system, the seemingly absurd individual behaviors blend together and effectively cancel each other out.

Now, though, a group of physicists report that observably “quantum” behavior can be restored to a thing large enough to see with the naked eye, under special circumstances.

The object must be drastically cooled until it reaches a so-called “quantum ground state,” where all vibrations due to heat are eliminated, according to the researchers, Andrew Cleland of the University of California, Santa Barbara, and colleagues.

The group made a vibrating device akin to a tiny drum, with a very high oscillation speed — over 6 billion oscillations per second. They then cooled the “quantum drum” to one-fortieth of a degree above the theoretically minimum temperature attainable anywhere, called absolute zero. The resonator, about a twenty-fifth of a millimeter wide, was also linked electric ally to a well-understood quantum device, called a superconducting quantum bit or “qubit.”

The scientists then used the qubit to stimulate the resonator to produce the smallest possible unit of vibrational energy, called a phonon, producible by the device. They further transferred this energy repeatedly between the resonator and qubit.

Because a phonon behaves in certain ways as both a wave and a particle, it exhibits a property called wave-particle duality similar to that found in other objects at the quantum realm. Examples include particles of light, called photons.

The set up implies that these researchers have achieved “quantum control” over the apparatus, they said.

Physicist Markus Aspelmeyer of the University of Vienna, who was not involved in the research, agreed. Cleland’s group has achieved “control [of] macroscopic [visible] mechanical objects in their smallest possible state of motion,” he explained in an article in the March 18 issue of the research journal Nature. “Success in achieving that goal heralds a new generation of quantum experiments.”

Cleland and colleagues, whose own findings are published in the same issue of the journal, said they also demonstrated in their device the possibility of some of the paradoxical behavior therefore seen only in the sub-microscopic quantum realm.

They managed to place the resonator in a state called superposition, in which the system is “both excited and not excited at the same time,” that is, both moving and stationary, said Cleland in an email. “This is not the same as half of an excitation, as the excitations are indivisible.”

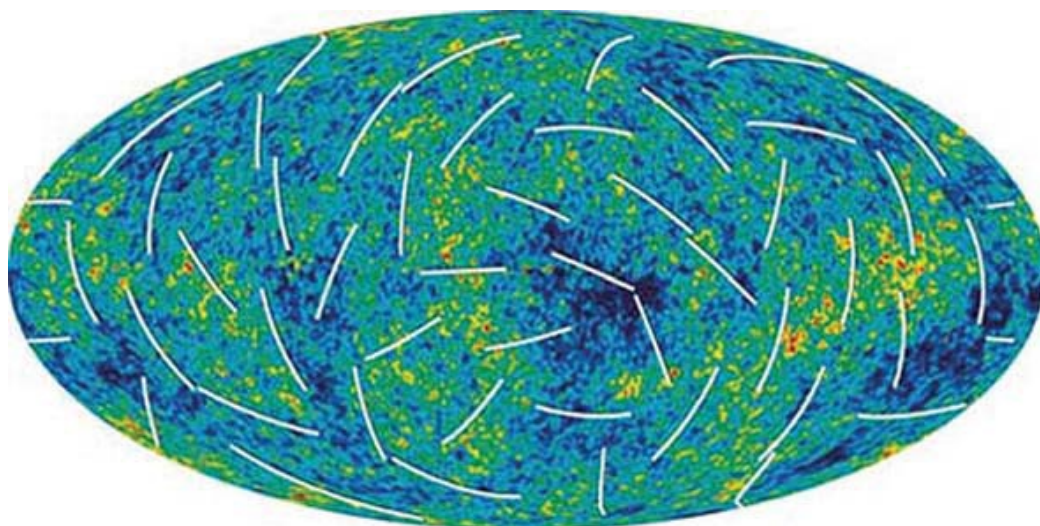


Chapter 2.5

It is well known from scientific study that nearly all existing amino acids, which are essential for building and maintaining life on the planet, are light-optic active in a chemical way. All these compounds rotate the light to the left, that is to say, they are left forms (or L-isomers) of the compounds. There are, and attempts have been made to produce, right forms of the compounds as well, but, in fact, they remain inactive. For example, morphine, which does not have an isomer, has an analgesic effect and is used in medicine. Its right (R-isomer) is produced, that is to say, a right form that bends down (polarises the light) to the right so that it seems as if it were a mirror image to the morphia-left form (L-isomer). Both forms are completely identical in structure, however, the R-isomer form of morphine does not have the same analgesic characteristics of morphialeft, and is not active. There are other such examples about everything else on the planet. For instance, L-dopa/Levodopa (INN), a substance that is present in the CNS, is used as a cure for Parkinson's disease. It has its R-isomer, which is identical to the L-isomer, but the right is not active. Maybe somewhere in our universe or in another parallel universe, according to the duality principle, there are right forms that are parallel with our own active forms of compounds, and they are active in their world. Perhaps certain dimensions or worlds in an energetic or some other form of existence inconceivable for us at this level of development, in a way, become active and open to the phenomena and to us in a similar way intertwining their existential real world with ours, making one whole — something that is highly possible and theoretically maintainable.

This encourages us to ask some fundamental questions about ethics and morality connected with the latest scientific achievements in the field of genetics and genetic engineering, questions that are unfortunately opposed only by conservative views and religions. From a bio-energetic perspective, it is very important to revise this, having in mind the existence of polarised light

and active and inactive polarised forms of compounds, as stated earlier. Therefore we might postulate



An infant universe, one trillionth of a second old, with its first stars, warm and cold regions, and white marked directions of polarised pre-light. Of the total, 4 per cent belongs to atoms, 22 per cent is dark matter, and 74 per cent is an enigmatic dark energy.

NASA/ WMAP

that, by manipulation of certain genes during the process of genetic engineering, especially at the process of cloning, in a certain energetic way some of the genes might become inactive. Such energy blocks would reflect themselves later in some energetic form, creating some consequent and unforeseeable problems and changes. Therefore, it is right to review our attitude towards genetic engineering, and to make it a priority. This will allow us to initiate and affirm the need to bring religious and scientific teachings closer for a better, healthier and more secure future for all on the planet, so that we can protect future generations, together with the energetic-spiritual worlds and other dimensions to which we belong, from unreasonableness and malice caused by negative forms of influence.

The eye has a rather complex apparatus for seeing during the day and during the night. There are receptors of light in the eye — rods and cones with which we can see during day and at night. There are more receptors for seeing during the night than during the day. The glassy body in the eyeball (*corpus vitreum*) is perfectly made for presenting bio-holograms, images, events and the like in three-dimensional form as holograms. The radiation of cells with photon light through DNA enables these phenomena to be observed in the eyeball, as in the closed chamber projected by our surroundings and distributed for analysis from and to our CNS by the optic and other nerves. Some forms can be seen with eyes both closed and open as if they were projected from somewhere but are materially nonexistent in our surroundings. Some people, especially small children, can see events in their surroundings that most other people on Earth cannot normally see. Whether they are other dimensions or parallel worlds remains an open question, as does the question of what makes people more able or less able to see these, for us, non-existing phenomena (similarly, with individuals who can see aura fields, that is to say, bio-energetic fields around people and the like). This gives us another reason to re-analyse the norms and regulations of everyday life, especially in the domain of medicine and neuropsychiatry, according to which we have been guided up until now.

The possibility of observing dreams, or other phenomena, in our eye from outside, can be confirmed by the fact that there are blind people who dream live dreams in colour as bio-holograms. There are even such people who are successful psychics/clairvoyants on the basis of their dreams. One such case was the famous Macedonian-born Bulgarian woman known as Vanga-ex, who lived in southwest Bulgaria close to the border with Macedonia several decades ago.

In that way, through dreams, we are in contact with our surroundings and with our communicative-collective unconscious field, or more precisely with our bio-morphogenetic field, which, as an energetic field, would contain all information of importance to humankind. People, with their bio-energetic spectrum and diversity, are a prerequisite for the existence of energetic fields in which, and from which, we are all in contact at an energetic plane. These communications, through symbols or live images are projected within us and vice versa, and through dreams or the stated phenomena, we act at this level with a possibility for recurrent or echo action of materialisation back in our material energetic world. Not only Man, but also everything in nature, with its QEEMR (that is to say, its bioenergy) all around, enables the existence and survival of such an energetic communicative field, building worlds of energetic communication and belonging.



Chapter 3

Bio-energetics — Bio-morphogenic spheres and fields



With the development of humankind, bio-energetic spheres manage to extend, build up and evolve as creatively as we do. By building our material world, we build our energetic world as well; that is to say, we improve it by evolving through the creativity that we possess. Each person is a unique individual, has his or her own spectrum of bio-energy that is characteristic of each particular moment, so that two identical ones do not exist. This means that each of us in our own way builds a unique energetic system together with our own world in a common unity, in spheres of bio-energetic spectrum belonging to similar or identical worlds at this level, according to the principle of the rainbow. The rainbow is a well known example of extreme polarised light, with strips of colours of different intensity and quality, just like many unique worlds that belong to one collective, or like the white light that is a sum of all lights. Other organisms also have their communicative collective unconscious bio-energetic spheres of belonging with which they are continually in contact, sending and receiving information in their own way and reacting in accordance with it, interplaying and evolving in their own unique way, understandable and comprehensible only to them. It remains to be qualified by scientific and religious thought whether these bio-energetic fields, spheres or worlds are in a way a cliché, a matrix/virtual reality of this wholeness and individuality that enables regeneration and allows life force to rise in this world again and again like a phoenix, or whether they are projected as an echo somewhere on the periphery of our known universe or previously existing universe, or indeed from another dimension of existence in our immediate proximity intertwined with our three-dimensional reality, or perhaps an unknown and invisible phenomena or part of an already existing invisible wholeness ...

The whole living world on the planet is composed of DNA, which contains four known basic elements: adenine, thymine, cytosine and guanine. These are amino acids, which, according to the way they connect, give the uniqueness of DNA, the uniqueness of the organism to which they belong, creating their hereditary features, their belonging, their look, and so on. Their various mutations cause twisting of heredity into another direction and, with that, later create the new types or subgroups of evolution of the group to which they belong. The latest studies have shown that organisms learn, therefore DNA also 'learns' and has that learning projected and materialised in later DNA, which creates new types of organisms with new characteristics. This especially refers

to those organisms in whose development barriers appear for future heredity. This is sustained by discovering specific genes that mutate into similar forms known as suicide genes as a result of what they had learned. This is in accordance with what has been previously stated about bio-energy as a creative intelligence, that is to say, intelligent creation. This means that every creation is followed by evolution, and vice versa, that is a source of new creations, teachings and progress as a law.

Symbolism can be found in dreams, religious interpretations and everywhere in the present world. Symbols were used before, are used today and will be used tomorrow. This is relevant to DNA, in that, referring to the four basic parts of DNA, we can say that essentially they embody a distinction of where our world appears and lives, in this part with a three-dimensional reality, or feasibly four-dimensional, if we take time as a separate dimension, not as a subdimension of space. Most of us, except for some gifted individuals, are aware of three dimensions and only partly of the fourth dimension. (Time is like dimension). When we, at other intellectual and spiritual levels of evolution, become completely aware of the fourth dimension, we can study and manipulate it. We will discover the essence of lost time or lack of time, as well as slowed-down, prolonged or adjusted time, and individual, regional, local or universal time. A new science about bio-energy, with sound spiritual, energetic and intellectual norms can enable this kind of study. From the spiritual perspective, the four bases of DNA can be identified symbolically with the four basic structural elements of our reality that give stability, present in almost all faiths and religious and theo-philosophical teachings (such as earth, air, water and fire). The fifth element belongs to spirit (in western religions), prana or akasha (in eastern religions, synonyms for same thing), or bio-energy, that is to say, to esoteric primeval matter as a basis of all kinds.

Quantum theory speaks about gravitons, which are carriers of light, and the power of gravitation. According to it, there is no vacuum in the pure sense of the word, but rather each part of space contains zero point energy. Hence, with the fluctuation of the quantum vacuum, pairs of temporary virtual particles are created, + and — particles and antiparticles, that is to say, their antiparticles, which annul themselves wherever they are but reform themselves immediately, all of them and all at once as creations, and become all for us as well — all at once. They travel with the speed of light. These virtual particles are a zero point energy, a kind of so-called phantom energy that science today is beginning to deal with more. The quantum vacuum with fluctuation creates these kinds of particles, at the same time creating a negative space that makes the space expand with more and more energy. This peculiar expansion is a kind of an energetic space or space energy; consequently, our universe also expands. This means that, in fact, an empty space cannot exist because it immediately creates energy. Gravitons as quantum particles are connected with the power of gravity, and they are carriers of light and the force of gravity. Essentially, according to quantum theory, the force of gravity, in the true sense of the word, does not exist; rather, everything is connected by gravitons as carriers of light and gravity. According to the same theory, all that can oscillate

can create energy, or virtual energy, which, being virtual, can create virtual particles that transfer to waves and vice versa, as well as forming particles that create atoms and then molecules, then compounds of animate and inanimate matter (an energy in more complex forms and shapes) and so on, eternally by creating various dimensions and worlds of existence.

Such virtual particles can and are being created around us. These virtual particles take place and play a role in nearly all mentioned and unmentioned phenomena in this publication, under the notion of QEEMR, in which the electromagnetic field (EMF) is in fact a peculiar quantum field. It seems that at the same time they can be a source of extra energy for the special purposes of healing, visualisation, materialisation, astral projections and the like of gifted people, mediums and similar. From a scientific point of view, with an adequate technology and knowledge of all, or more mechanisms and regulations of the quantum world, we can understand space and time more and thus manipulate it for our own benefit. But first of all we should understand ourselves, the universe, all creations as a matter and an energy in the true sense of the word, as well as our needs and then, with such intellectual and spiritual knowledge, we may become real masters of our destiny and, in that sense, the destiny of a greater part of the animate world that exists at a lower level than us. A higher level of evolution requires higher standards and comprehension of such things, which means greater responsibility. These new elements mean all creations and bio-energy progress to a higher level on their way to perfection. So these, and later on all remaining regulations and secrets, remain somewhere in order to be further discovered by others working along an already traced, safer and more secure way and path, at another level of development, as in a never-ending story, now just supplemented to the degree of more comfortable and more secure, healthier, happier, more spiritual, more responsible, more friendly world, and development of humanity towards itself and all the rest. We are at the edge of these developing changes and we should promote these standards responsibly and bravely.

Nearly every living being on the planet, including humans, come to a phase of dreaming from time to time. Man's sleeping and dreaming happen by day and night intervals so that sleeping normally takes seven to nine hours in a 24-hour period. How much and whether we sleep or dream during this state of sleeping is individual, and depends on the person, the situation and the like. It is thought that in this period of sleeping we spend a small part dreaming.

Dreaming is a special state of body, mind and spirit, during which live three-dimensional, that is to say, three-dimensional virtual, dreams in colour or not in colour are dreamed, which can be or cannot be remembered. The same happens in a special phase of the CNS, the rapid eye movement (REM) phase. During this phase, behind closed eyelids, a rapid movement of the eyeball can be seen and, at the same time, changes are registered in brain activity of the CNS. It is thought that, during the sleeping period, the individual, as a psycho-physical being, revises his or her life; that is to say, short-term and long-term phases from each domain such as plans, contacts, desires, hopes, successes,

failures, meetings, and so on are recalled. In a way, since our physical structure as well as our aims, joys, sorrows, fears and such are similar, then nearly all people on the planet share one virtual world of belonging, of communication or cumulativeness, or (according to Jung) collective unconsciousness. In this way, knowing about the 'functionality' of subatomic particles, the charm-resonance system, as well as virtual particles and other things, we can freely say with more certainty that people, willingly or unwillingly, are in a certain communication at this collective level. Therefore, we can say that fatal things and creation of fate, contacts, events, connections and the like are almost possible, so that reading of the past, present and future is very possible, especially if we know that there are speeds faster than the standard speed of light and that we live in a multidimensional world of opportunities but one material reality. This means that we might live in one virtual multi-universe, where this kind of communication would transport from one world to another through this virtual way of communication, and so messages from the past and the future would be read.

From its more real perspective, this way of communication and the existence of a virtual multidimensional world also opens some other more probable possibilities, so that all these activities, memories, dreams, ideas, intentions, longings, plans, possible meetings, contacts and the like are being processed by this virtual world and distributed, according to its charm-resonance system, to the individual for whom they are meant, who is like a pillar between dream and reality, turning dream into reality and reality into present. In other words, someone who would know what and how to deal with them and, through this virtual world, to realise and materialise required things in a truthful reality in this real and material world, here, as one truth for the present, the future and the past, observed and experienced in a present as the testament of truth. Maybe they are not separate worlds or domains in the form and shape we imagine them, but they might be separate quantum-resonance worlds or spheres of fluctuation of wavy quantum forms with information of the individual and those individuals who are related to him or her. So these light spheres (similar to small suns, which means our Sun would also present something similar from another but similar perspective) would look like a quantum sphere (or like the already mentioned bubble formations or balloons when describing bubble universes and the like) in which these pieces of information are stored and evolve, and which identify with the models and images of quantum chaos. This could be identified with the bio-morphogenetic fields of belonging, in the themes of afterlife present in all faiths, which can be further explained by the statements from individuals who have seen light, light ball or bubble and the like during some critical moments of life and death or somewhere between them.

According to this principle and way, someone can be a witness to the enthroning of God's Son Jesus Christ on the throne at the right side of the Father in the clouds, only this time the clouds are not literally clouds but the whole universe with such cloudiness being the galactic systems and all in it in the image of Our Father, while God on the Throne of blue, yellow, green, red,

bright, precious stones clad in a golden, silver light on the blue sky as an insert in the background on the right side of the Father in the clouds: yes, all light and only light as a real testament of truth.

Science has discovered a gene of spirituality — religiosity. Whether this gene has been acquired or it has existed before (so is present to all — in atheist and religious persons as well), science should explain, but in both cases it is a reality as a reality already postulated that leads to creating, learning, memorising something new, even in the genetic hereditary characteristic; that is to say, at the material level in the book of life, in DNA. On the other hand, it shows that this learnt new/old has also existed and will exist in a spiritual/energetic form and/or sphere that has interactions with the material sphere as an image in the mirror, as one's own echo, the echo of light. Thus, the whole of DNA has its echo in an energetic reality that might 'float' as a 'memorised' bio-energetic/bio-holographic intelligent, multidimensional, creative created creation, which exists as a part of an intensive and permanent radiation of DNA. Its four bases represent a miniature world, a beginning of matter, our embryo at that level, that originates from the energy in themselves, as their characteristic with which we are constantly in contact. Thus, DNA is essentially a strong aerial form and a source, which means that at a certain level of our development as a complete spiritual-material being, it carries lots of other information about the existence of a spiritual world that waits to be discovered in some future time. This world has existed and will exist regardless of our wanting or not wanting to accept it or recognise it, just as the gene of spirituality has existed in developed or rudimentary form and shape regardless of faith or belief; that is to say, it can also be found both in spiritually awakened people and in atheists. It means that humanity, since its very creation, is not only a spiritual but also an intelligent and social being, making the earlier stated initiative to create a science of a bio-energy type that would unite the spiritual with physical knowledge of humankind is more than important — it is a must, alone or incorporated in already existing scientific and Theo-philosophical and religious branches that have their own individual teachings and knowledge.

Talking about the four bases means a certain introduction to the terminology of symbolism. Because symbols used by religions, numerology and the like can be written or have a form of drawn figures, numbers and so on, they can be objects or symbols of material and energetic form (a psycho-spiritual form); of a sound form also, such as various hymns, meditative sounds and so on. Even names of people are kinds of symbols. They, the symbols, have great application and thus they are kind of receivers-transmitters, generators of an enormous quality and quantity of energy, and that is why they have been used throughout the history of Man's development. There are not only religious forms and shapes of objects, but also more modern ones that are used as symbols of states and the like, such as hymns, coats of arms, flags, and so on belonging to the same category of symbols that is a continuity of antiquity. From a bioenergetics perspective, within this context, explaining the importance, mechanism and use of the symbols is not pertinent to the

discussion in this publication because it will touch upon the sacral matters of religions, so we should leave it to future science to deal with in the right way. It should be noted only that religious temples are, in a way, symbols of religion and the belief they represent. Although bio-energy is present everywhere, omnipotent, during the time these buildings become energetic centres of receiving and transmitting what they are meant to, their structure receives and vibrates with what it has received; that is to say, they are filled with positiveness and, as such, they are justified and in their own way they are spiritual energetic universities, by the principle of material universities connected with scientific institutions.

The more one learns, the more bio-energy enriches the things that are learnt, and so on, without end. That is the principle of self-preservation of bio-energy as a live energy, and all creations with it. It cannot be destroyed. On the basis of this and lots of other things that are beyond this topic of discussion, positive symbols are justly used by humankind. Negative symbols have a recurrent union with our reality, so that, although used by various people and institutions, their strength and intensity is short-lived, and with much longer recurrent effect towards those that use them than towards those for whom they are meant, so that, if we know about them, they will get uprooted as harmful to all of us, mostly to those who use them for wrong deeds and intentions.

Namely, in general during the application of these symbols as mentioned, they absorb an energy, not only in relation to the QEEMR charge in and around them, but also in some astral, energetic spheres and dimensions of our existence. Therefore, they are used by various mediums, religious and holy people in their astral spheres of belonging and influence and, first of all, in the struggle against the negativeness that governs in the same spheres or in the struggles against negativeness that govern on Earth and in humankind on an energetic level, and are symbolically presented in these dimensions of existence. Various descriptions of energetic-spiritual fights of bad and good in the holy books are nothing but these astral symbolic conflicts between good and evil, and they justly predominate in nearly all holy books on the planet by nearly all religions and theo-philosophical movements and teachings, and they are especially emphasised in hermetic groups and teachings. They are depicted in books and records as direct observations of the symbolised conflicts, generally between bad and good, by using symbols of animals, birds, colours, numbers and so forth. On the basis of these astral interactions, predictions are also founded, which are conducted by people who are direct observers of or participants in these symbolised astral conflicts, or some other individuals who take part in interpretations of some events in a certain region in a certain time interval or in general. Most often they refer to both the Earth and humankind as a whole. In many cases they have proved true or nearly true, even some that have no meaning at all, and they are widely used and respected by religious circles and the general masses, therefore they deservedly find their place in this publication with only one conclusion: the analysis and their later exploitation should and must be a task for a united religious and scientific

discourse since they are depicted by all people on the planet and affect the entire humankind, as it is not the property of only certain groups but of the Earth, and the future of humankind belong equally to all of us, so that when important decisions are being made everyone should participate equally.



Chapter 3.1

In 1973, Jigesh C. Pati and Abdus Salam suggested theoretical reasons that lead to the decomposition of the proton, so that the notional life of atoms, that is to say, subatoms has been imposed according to the principle of half-life of radioactive elements.

Looking from a universal perspective, everything in the natural universe has its beginning and its end, that is to say, material end or death. For example, subatomic particles have a very short period of life. Atoms are also liable to a process of natural decomposing, as presented earlier. Radioactive elements have their half-life, so, according to this principle, everything around us is liable to natural material disintegration. The stars, galaxies and the like are also liable to material disintegration.

Material objects at the end of their material cycle of existence disappear, transferring into energy. What happens to that energy later is an enigma, mostly because of our limited senses to detect other forms and shapes of existence occupying other spectrums of an energetic field and entering some special dimensions or similar realms of existence, but also because of our limited knowledge and technology to detect them, observe them, follow them and analyse them. It has been observed that some stars form black holes possessing great gravitation force before dying, and it seems as if they suck in the whole matter of the star, after which there is no trace of it. In some places, antimatter (dark matter) has been noticed, as well as enigmatic dark energy. It is thought that inside black holes — which can be created anywhere and in various sizes, such as from 'the top of the needle' to the whole galaxy — all forces lose their meaning, they are all presented in a kind of singularity. As mentioned, notions of time, space and dimension cease to exist at the edge of black holes. All meaning based on our generally represented scientific thought and logic disappears. Everything is reduced to singularity and all happens

instantly, so there is a shifting and uniting of all forces, dimensions, phenomena. Science has still not explained what black holes really are: whether they are programmed or self-regulated parts of the universe that clean the waste of old materials and energies, as a sort of recycling of the stars and the like; whether they are a channel into another parallel universe; whether they are programmed or self-created balance holders and compactors of the universe; or automatically spaces for starting something new (born again) in this or in another realm of existence invisible to us. This awaits further study.

In black holes there is a change of forces, and they are brought to a unity, perhaps something like at the very beginning of the creation of the universe. At the edge of the border of this spinning black hole there is an event horizon where, if matter falls, it is sucked in and cannot return/escape. This happens even to light, which does not get into interaction with any thing, so cannot escape. At this scientific level, on the basis of what has been released from black holes as combustion of matter, and on the basis of gravitational forces and hearing sounds from them, scientists can study them and tell something more about them (mostly because present equipment and technology is not adequate and that limits research and knowledge, but fortunately, with time, this will change).

From a bio-energetic perspective, there is a battle for space between dark and light energy, represented by virtual particles, forces and energies. In their constant activity, these virtual particles, as it was mentioned earlier, move the universe, which expands with great speed. The quantum vacuum creates energy by fluctuation, which as virtual is a foundation for creating virtual energies and particles from which the well known and already mentioned particles result. These virtual particles, with their continuous destruction and formation, create negative space that is a prerequisite for the universe to grow constantly. Having this in mind, these particles might be, in a way, part of the phantom energy or dark energy, known as Cosmological Constant according to Albert Einstein. What it represents is an enigma for scientific circles that are working intensively to explain the essence of it. In other words, there is no empty space in the true sense of the word, so there is no space without energy. Each part of empty space at the same moment creates energy — space energy. Thus, with the expansion of the universe, we can say the larger the space, the greater the energy. Black holes immediately annul the space and absorb the energy. In this case, dark energy and matter can be found in and around black holes, which are so called because they 'radiate' darkness that we cannot detect, and the only way to detect them is by the gravitational pull towards their surroundings. They also have a tendency to 'contract' the space. If there is a balance between energy and matter then the universe would grow under control and an infinite creative evolution of all in the universe, including planet Earth, would be possible, at least from our point of view.

It seems that black holes are some inner universe concentrations of dark energy and matter that drain the space to singularity, yet in a way preserving

the energy, so that the larger space and digested matter, the greater energy and the smaller space remains in them. From a bio-energetic perspective, in the past, a scenario might have happened in which the universe had contracted to maximum. At that moment it must have experienced an explosion as the beginning of something new, that is to say, the Big Bang, while the previously gathered energy of the previously contracted universe served as an incendiary for the whole process, a Big Bang process that can repeat endlessly. Energy in its original form, with its information, would enable it to recreate the same process here or elsewhere, but with upgrading new moments of its creative evolution endlessly. This is supported by recent observations and findings from astronomy about black holes, such as from Craig Sarazin of the University of Virginia in Charlottesville (USA): "Black holes are the ultimate garbage disposals," he reported to the research journal *Astronomy & Astrophysics*. "The material they swallow disappears without any trace, except for the [increased] gravity of the black hole." Other scientists have observed merging of giant black holes as well giant black objects in the middle of the galaxy.

In the context of what has been stated, the scenario depends on the prevailing forces. In the case of moderate balance, there is a more relaxed development, relationships and time so that energies and forces can consolidate and take a configuration that will provide a trajectory to further the universe and the material world in it. At the moment, our universe, as mentioned, according to recent scientific discoveries, is expanding and will continue to expand, and the next such cataclysm of those scales will happen later. In fact, physicist Paul Steinhardt of Princeton University described the new calculation as potentially "a more rigorous and complete" argument for a proposal he has advanced with Neil Turok of Cambridge University (UK). Their model, however, also claims the cosmos will be reborn at the instant of its demise. In any case, the cataclysm probably won't happen before another 300 billion years or so, according to Steinhardt, 20 times the present age of our universe. The scenario envisions that our cosmos will crash into a vast world of space and time that we cannot see or touch from our own visible universe, but that lies next to it, less than an atom's width away.

This untouchable zone is sometimes called a parallel or twin universe, although Steinhardt says it is best considered as part of our own universe, as it's not quite sealed off from us. The two worlds interact through gravity, according to the theory. Except for this connection, though, they are separated by dimensions we cannot enter. Gary Gibbons of Cambridge University (UK), and two colleagues described in an issue of *Physical Review Letters* the way these two regions could end in a "mutual annihilation" as they make contact.

From a bio-energetic perspective, one scenario would be that the enormous power of virtual particles could cause an enormous expansion of the universe, at which galaxies would remain alone in empty space and become 'victims' of black holes that would fuse and become larger and larger. A contracted universe or universes would be created as at the beginning, and this time the beginning could happen at more places in a rarefied universe and more

universes, or a multi-universe, would be created. Whether this has already happened and whether we live in a multidimensional and multi-universal system is something for science to find out as they discover other principles and regulations in this field in the future, knowledge that is important for our existence as well as for our future. (If more universes have been created, then the cause of lost mass and the like can be found; but this is not the subject of this publication). All this shows that, on both a macro and a micro scale, all creations in the universe, as well as the universe itself, are liable to a material end, a 'death' that can be, and is, a peculiar introduction to something else; that is to say, a birth of the new, as a universal unstoppable cycle at all levels for micro and macro cosmos. This has been confirmed by recent findings by Brian McNamara of Ohio University in Athens (USA): "I was stunned to find that a mass of about 300 million suns was swallowed," by one super massive black hole, he said. This discovery shows the enormous appetite of large black holes and the profound impact they have on their surroundings, and supports recent theories that supermassive black holes have a major impact on the structure of our universe. The volume of space the black hole occupies is about the size of our solar system but it impacts a volume of space much greater than that — about 600 times the size of the Milky Way galaxy. "From this tiny region of space, the energy is spread out over enormous distances," said another researcher.

This tells us about the end and beginning of things, from the smallest to the largest. And somewhere in the middle is humanity. Previously mentioned bio-energetic phenomena in a way initiate the death as well as the birth phenomenon. Although it sounds horrible, as realities they are the most important moments of our everyday life, unavoidable regardless of whether or not we believe in them. No matter if we are scientists or soldiers, politicians or workers, we are all affected by birth and death and both are present at moments every day, and that is why a more realistic picture is necessary and unavoidable.

These phenomena, as realities in our lives, have been described by all people and religions; that is to say, they happen to all people regardless of their belonging here or there, living in this or that way. The phenomenon of death as a process has been exploited by nearly all people, religions and individuals in this or that way. In the holy books there are special chapters in which death is describes as a process, which is to say, a continuation of earthly life. For example, in *Bardo Taldol*, a Tibetan book of the dead, various worlds and their inhabitants are described, depicting the life philosophy of belonging according to the individuals' merits and the permanent movement of everything in nature.

The Egyptian book of the dead also describes the afterlife, investigating/measuring the souls of the departed: what people had done during their lives, whether they had been good or bad and so on, and by measuring souls a person was sentenced to belong where he or she deserved according to deeds and merits during earthly life. In Christian and Muslim, as

well other religions and faiths, similar descriptions are present regarding this phenomena and process of death. So these are somehow universal moments, described by nearly all religions on the planet: the life of an individual is revised by a just, superior being as a single God or a single spirit/supreme being or a God of Gods. Generally (going in to details is a matter for religion), the person is being sent either to a good place to continue an afterlife with close friends and relatives who have previously been sent there, or to a bad place. Simply said, it would be a good world/worlds or a bad world/worlds, a paradise or a hell, terms widely known and accepted, and used by nearly all religions and beliefs on Earth.

Memories persist even when forgotten, study suggests

Sept. 9, 2009

Courtesy UC Irvine

and World Science staff

A woman looks familiar, but you can't remember her name or where you met her. New research suggests the memory exists — you simply can't retrieve it.

Using brain imaging, neuroscientists at the University of California, Irvine found that a person's brain activity while remembering an event is very similar to when it was first experienced, even if specifics can't be recalled.



The elongated structure at the center of the greentinted zone of this image represents the hippocampus, a brain region crucial to memory formation. (Image courtesy NIH)

*“If the details are still there, hopefully we can find a way to access them,” said Jeff Johnson, a postdoctoral researcher at the university and lead author of the study, appearing Sept. 10 in the scientific journal *Neuron*.*

“By understanding how this works in young, healthy adults, we can potentially gain insight into situations where our memories fail more noticeably, such as when we get older,” he said. “It also might shed light on the fate of vivid memories of traumatic events that we may want to forget.”

Johnson and colleagues used functional magnetic resonance imaging, a brain scanning technique, to study the brain activity of students.

The students were shown words and asked to perform various tasks: imagine how an artist would draw the object named by the word, think about how the object is used, or pronounce the word backward in their minds. The scanner captured images of their brain activity during these exercises.

About 20 minutes later, the students viewed the words a second time and were asked to remember any details linked to them. Again, brain activity was recorded.

Utilizing a mathematical method called pattern analysis, the scientists associated the different tasks with distinct patterns of brain activity. When a student had a strong recollection of a word from a particular task, the pattern was very similar to the one generated during the task. When recollection was weak or nonexistent, the pattern was not as prominent but still recognizable as belonging to that particular task, the researchers said.

“The pattern analyzer could accurately identify tasks based on the patterns generated, regardless of whether the subject remembered specific details,” Johnson said. “This tells us the brain knew something about what had occurred, even though the subject was not aware of the information

Many examples of near-death experience convey similar things, such as seeing a tunnel, seeing light or darkness (more infrequently), having the things achieved in life investigated by an extraterrestrial being, then seeing beautiful luxuriant landscapes and meeting relatives and close friends, before finally returning to reality. After this experience, individuals are especially inspired and do not appreciate, according to their statements, material things so much. The same is described by nearly all individuals who undergo such an experience, regardless of their faith, race, age, and so on. It is interesting that similar experiences are depicted in holy books by people remote from each other in time and space. This supports the theory of bio-energy that there is the possibility of the existence of a biogenetic subconscious, that is to say, the existence of bio-genetic fields or worlds and communicativeness. A few individuals with near-death experience describe scenes of horror and landscapes similar to the classical descriptions of hell.

From science we know that elements react differently under different conditions and, in this process, they transform into other forms of existence. Water, for example, at low temperature turns into ice, a solid state, while at high temperatures it is in a gaseous state. In fact, the forces change and the energies help water and other elements to change their form but still, under

certain conditions and with forces known or unknown to us, basically remain what they were — in this case, water but in different shapes and forms. The Van Der Waals Force, which is a kind of weak force, holds water molecules together, although the conditions and the form of water are changeable. This force can make elements solid or soft, like wax and the like.

Elementary forces change their qualities under various conditions, that is to say, they change their relationships, symmetries and the like. A weak force at high temperatures gets an intensity equal to electromagnetism, and later the colour and strong force equalise and knit together perfectly, becoming a singularity. At the beginning, this might have been a principle and they act according to the same program. According to this principle, gravitation and other forces would begin to change and to identify as other forces, creating other principles. Studying these principles, we might get answers about the universe as well. In such a sphere, notions of time and space would lose every sense of what we know and understand. Essentially, everything would come down to the present, nearness, universality, omniscience, all-knowing; it all would come down to a singularity. During the process of dying, the forces and processes that keep the body and soul of people together, such as breathing, circulation, nerve innervation, and so on, gradually die. Thus, relations within subatomic particles, together with atoms, molecules, compounds, organs, systems and within the whole organism, change. They become inert, and so the rotations and the creation of energy lessen and all functions fail. In this way, the body prepares for death (a self-destructive gene has recently been found in DNA), the forces in the subatomic particles, as well as in the atoms, have changed and weakened.

Our own organism is small in comparison to the planets and other heavenly bodies, but in relation to an atom it is like a universe. Although within a small range, in the atoms of the body, in an adequate proportion, there are similarities with the forces of nature — electromagnetism, gravitation; and, in a way, both the strong and the weak force (this refers to similarities of forces identified with the previously mentioned ones). They would decrease their interplay so that energy would feel free. When these forces stop working, there would be nothing to attract the energetic aura of Man, and it would get a chance to be sucked immediately or projected in a certain time and space realm around us or into some other dimension of existence. This is like Bio-energy (BE) emanating from a person, which has a huge extra energy to form some kind of micro wormhole or Einstein-Rosen bridge similarities. (The **Einstein-Rosen bridge theory**, in brief, is the theory idea of electrons being able to pass through a wormhole in the time-space continuum, allowing faster-than-light time-space travel or inter-universe travel.)

So in this manner, the BE of a person at a micro level could 'open' or go through black or white holes, and be transported to where it belongs, or to enter some tunnel or string charm-resonance tunnel system and again be transported to where it belongs, which is probably almost identical to what most people describe when they have a near-death or similar experience. This energy, in the

form of photon packages, that is to say, QEEMR, is projected with all the informations of the individual as hereditary or acquired, all the information that an individual has recorded and experienced through their own life, sealed in the body and in the DNA as his or her own book of life, the book of an individual's life transferred into an energetic form in the aura. This means that all pieces of information with the complete emotional feelings remain the same as at the moment of creating the information. It does not refer to camouflage, which is a reflection of the exterior and the interests at the moment of memorised situations created falsely by the character and the organism while it was alive. That artificial state, achieved consciously and caused by various reasons and interests in certain periods of the individual's development, is not valid anymore in that particular moment and that what was there as an illusion is gone, non-existent, having been created there only by circumstances and only for that because of various interests. The interior, pure memorised content of events, incidents, and so on, that the individual had experienced as it all had happened — willingly or unwillingly, recognising or not recognising things on account of who knows what interests and the like — remains. The emotions of the individual remain unchanged, although they can be masked for various reasons as mentioned earlier, and, as such, they are 'photographed' in the bio-energetic information of the organism — unchanged. Perhaps the individual does not or cannot remember certain things that are not of his or her interest, but this is irrelevant for bio-energy. There is only the truth in the form of emotion, notion, and information, that is to say, in a kind of memorised impulse of light as bio-hologram with its content, emotion, 'colour' or 'life and complete bio-hologram'. Nothing can be hidden, even any sort of masking for various reasons, or without any reason. That is why one should leave them and concentrate on doing good things. The case in which borrowed memories are studied is the best example of this; that is to say, although a person considers some memories as his or hers (moreoften between twins and relatives), when required to speak about their origin this person is obviously not the original owner, and he or she admits in wonder and it is accepted as fact, because it is true, because in a virtual world, inclination and materialism do not have any importance, place or role. Knowing this, if we leave pure memories full of good deeds, mercy, friendship, and so on, emotion would be stronger, brighter and, in a way, more eternal as information about the event, incident and the like. This pure, sincere emotion, as a pure bright light, would be an eternal zest that would glimmer in the hearts and souls of the dearest ones, and it would be an eternal generator of light and warmth that would warm them and offer them love, strength and hope. That is why there is no use in masking and everything should be done with grace, love, goodness and the like as noble and eternal values that are appreciated and required, and, as such, they are eternal in all dimensions and worlds of existence. Hence, the importance and meaning and, with that, the value of the messages contained in the holy books or passed on by holy people to people; messages such as love your dearest and nearest, offer bread to one who throws stones at you, and the like. That is why it is very important to cherish and respect religions in our everyday life, because only they have looked after the spirituality and the proper moral and ethical, that is to say, spiritual, life in the right way. Here we do not intend to go into detail

about the development of religions and their relationships, but will look generally at their missionary role and care of humankind, postulating the moral and ethical standards for a healthy life, a healthy diet, and healthy spirit in a healthy body.

The latest discovery about the possibility of reading thoughts also opens more than a theoretical possibility of the real existence of what has been stated earlier; of the beliefs and writings in the holy books by nearly all religions on the planet, of reviewing the memorised life and the situations throughout one's life, objectively, without any subjectivity and masking or any other interests in the process of death. This kind of revision can be done by individuals themselves or by a superior authority, an intelligent creative creation and the like, to which only one united scientific and religious thought can give an authoritative answer.

In 2005, Sean Polyn and his colleagues at Penn State University in University Park, Pennsylvania (USA) suggested that mind-reading, that is to say, memories, is like a mental time journey. They analysed brain scans of individuals who have previously been shown images of a various nature. When these images were remembered, the individuals' brain returned to the same state it was in during the process of initial memorisation, a few seconds before the individual gave an answer to the question about the image seen. With that, the scientists were able to guess, according to the brain state, which image the people were remembering.

Earlier, in 1999, scientists at the University of Berkeley, California (USA) recreated an image that had been previously been seen by a cat by using computer readings of wires connected to 177 brain points. More recently, scientists using functional MRI scans have been able to say not only what image a person had seen before, but also what image the person had concentrated on and what image had been seen before without being consciously memorised.

Two independent teams of scientists have published a finding in *Nature Neuroscience* (May, 2005) about the latest practical evidence on the possibility of mind-reading. One team was led by Yukiyasu Kamitani of ATR Computational Neuroscience Laboratories in Kyoto (Japan) and Frank Tong at Princeton University (USA); the other team by John Dylan Haynes and Geraint Rees at University College of London (UK). Kamitani and Tong explained that subjects in the experiment were directed to observe one of two images, and not to pay any attention to the other. Analysing the brain state, the scientists could describe the second image, consciously unnoticed by the subjects. Haynes and Rees reported that they were able to say what the subjects had seen better than the subjects themselves. They have created a computer program that, on the basis of the memorised state of consciousness, is able to tell what the subjects saw. Two images were presented very quickly one after another, and the subjects asked to say what they represented. The subjects talked about the second image, since they could not adequately memorise the first one because

of the speed. The computer program was able, on the basis of analysed and memorised state processed in consciousness (the brain state), to precisely recreate the first image as well, even though the subjects neither memorised it consciously nor paid attention to it. The authors claim that this invention will show new pathways in future studies and discoveries in this field, as well as in understanding the differences between consciousness and subconsciousness.

In this context, it should be pointed out that the bio-energetic information is in three-dimensional form and it is a complete representation of the individual with his or her complete hereditary, emotional and physical life in a kind of bio-energetic hologram. Because of the real probability that energy is aware of what it carries (as presented earlier), it is also aware of itself. Thus, it can be revised just as events can be revised in our dreams under certain circumstances conditioned by something or somebody, or even by itself.

Because all holy books, as well as statements of individuals who have had spiritual or near-death experience, refer to light, all these phenomena are discussed in this context: within the teachings about light and its speed. According to science, the speed of light is 300,000 km/sec, and it is considered a constant. According to Einstein's law, light cannot travel at a speed faster than the speed of light, but this could refer to light that is not a carrier of information, as it has been proved that there are speeds faster than that of the light. In this case, knowing the constant speed of light (300,000 km/sec), some situations or scenarios from the past, present and future theoretically could be predicted, so the existence and the creation of destiny are more than probable. Because there are speeds greater than the speed of light, this rule can have exceptions. In some unexpected situations of sudden death — violent or non-violent — 'lights' as BE packages or bio-holograms of the unfortunate individuals can return from where they came (with a speed that is faster than the constant speed of light) and stay there until the moment of 'change', which would 'liberate' them and 'project' them to where they belong, simply as they are, in the light. The latest discoveries about the possibility that light was slowed down or that could remain at the place of death confirm that the image of a ghost (bioholographic information of a person without the presence of a physical body, that is to say, bio-energetic mantle or bio-energetic body of a person) is theoretically more than possible. Thus, if a death happens suddenly, unplanned, by accident and the like, then this energy can be projected, but at the same time there is the possibility of it being attracted back by the organism or by something else, such as strong emotions and realised energies and forces of the sudden accident or similar, at the place the death occurred, and, with its enormous strength, attracting energies of individuals involved at the place of the event; so the existence of spiritual phenomena is more than probable.

Faster than light particles found, claim scientists

Particle physicists detect neutrinos travelling faster than light, a feat forbidden by Einstein's theory of special relativity

□ Ian Sample, science correspondent

□ guardian.co.uk, Thursday 22 September 2011 23.32 BST



Neutrinos, like the ones above, have been detected travelling faster than light, say particle physicists. Photograph: Dan McCoy /Corbis

It is a concept that forms a cornerstone of our understanding of the universe and the concept of time – nothing can travel faster than the speed of light.

But now it seems that researchers working in one of the world's largest physics laboratories, under a mountain in central Italy, have recorded particles travelling at a speed that is supposedly forbidden by Einstein's theory of special relativity. Scientists at the Gran Sasso facility will unveil evidence on Friday that raises the troubling possibility of a way to send information back in time, blurring the line between past and present and wreaking havoc with the fundamental principle of cause and effect.

They will announce the result at a special seminar at Cern – the European particle physics laboratory – timed to coincide with the publication of a research paper describing the experiment.

Researchers on the Opera (Oscillation Project with Emulsion-tRacking Apparatus) experiment recorded the arrival times of ghostly subatomic particles called neutrinos sent from Cern on a 730km journey through the Earth to the Gran Sasso lab.

The trip would take a beam of light 2.4 milliseconds to complete, but after running the experiment for three years and timing the arrival of 15,000 neutrinos, the scientists discovered that the particles arrived at Gran Sasso sixty billionths of a second earlier, with an error margin of plus or minus 10 billionths of a second.

The measurement amounts to the neutrinos travelling faster than the speed of light by a fraction of 20 parts per million. Since the speed of light is 299,792,458 metres per second, the neutrinos were evidently travelling at 299,798,454 metres per second.

The result is so unlikely that even the research team is being cautious with its interpretation. Physicists said they would be sceptical of the finding until other laboratories confirmed the result.

Antonio Ereditato, coordinator of the Opera collaboration, told the Guardian: "We are very much astonished by this result, but a result is never a discovery until other people confirm it.

"When you get such a result you want to make sure you made no mistakes, that there are no nasty things going on you didn't think of. We spent months and months doing checks and we have not been able to find any errors. "If there is a problem, it must be a tough, nasty effect, because trivial things we are clever enough to rule out."

The Opera group said it hoped the physics community would scrutinise the result and help uncover any flaws in the measurement, or verify it with their own experiments.

Subir Sarkar, head of particle theory at Oxford University, said: "If this is proved to be true it would be a massive, massive event. It is something nobody was expecting.

"The constancy of the speed of light essentially underpins our understanding of space and time and causality, which is the fact that cause comes before effect.

"Cause cannot come after effect and that is absolutely fundamental to our construction of the physical universe. If we do not have causality, we are bugged."

The Opera experiment detects neutrinos as they strike 150,000 "bricks" of photographic emulsion films interleaved with lead plates. The detector weighs a total of 1300 tonnes.

Despite the marginal increase on the speed of light observed by Ereditato's team, the result is intriguing because its statistical significance, the measure by which particle physics discoveries stand and fall, is so strong.

Physicists can claim a discovery if the chances of their result being a fluke of statistics are greater than five standard deviations, or less than one in a few million. The Gran Sasso team's result is six standard deviations. Ereditato said the team would not claim a discovery because the result was so radical. "Whenever you touch something so fundamental, you have to be much more prudent," he said.

Alan Kostelecky, an expert in the possibility of faster-than-light processes at Indiana University, said that while physicists would await confirmation of the result, it was none the less exciting.

"It's such a dramatic result it would be difficult to accept without others replicating it, but there will be enormous interest in this," he told the Guardian.

One theory Kostelecky and his colleagues put forward in 1985 predicted that neutrinos could travel faster than the speed of light by interacting with an unknown field that lurks in the vacuum.

"With this kind of background, it is not necessarily the case that the limiting speed in nature is the speed of light," he said. "It might actually be the speed of neutrinos and light goes more slowly."

Neutrinos are mysterious particles. They have a minuscule mass, no electric charge, and pass through almost any material as though it was not there.

Kostelecky said that if the result was verified – a big if – it might pave the way to a grand theory that marries gravity with quantum mechanics, a puzzle that has defied physicists for nearly a century.

"If this is confirmed, this is the first evidence for a crack in the structure of physics as we know it that could provide a clue to constructing such a unified theory," Kostelecky said.

Heinrich Paes, a physicist at Dortmund University, has developed another theory that could explain the result. The neutrinos may be taking a shortcut through space-time, by travelling from Cern to Gran Sasso through extra dimensions. "That can make it look like a particle has gone faster than the speed of light when it hasn't," he said.

But Susan Cartwright, senior lecturer in particle astrophysics at Sheffield University, said: "Neutrino experimental results are not historically all that reliable, so the words 'don't hold your breath' do spring to mind when you hear very counter-intuitive results like this."

Teams at two experiments known as T2K in Japan and MINOS near Chicago in the US will now attempt to replicate the finding. The MINOS experiment saw hints of neutrinos moving at faster than the speed of light in 2007 but has yet to confirm them.

If the powers in an organism at the critical moment have not disappeared but remain inert, with a potential to be reactivated by various outside and inside reasons, known or unknown, so at one moment this bio-energetic field can be attracted back by the reactivated forces that operate between subatoms and atoms in this unfortunate organism. In this way, the forces in subatomic particles and atoms start working by inertia or by outside stimuli like medical resuscitation, and return to their original role and function, reforming and reactivating the bodily gravitation force, as well as other moments typical of a complete functioning of the organism as a living being, such as electromagnetism, and thus they attract back the energy, with all its information, to the body to which it had belonged. Otherwise, as presented earlier, the body can stop functioning; that is to say, subatomic and atomic particles were not triggered, the forces of body functioning were not reactivated, so the energetic body as a three-dimensional bio-holographic characteristic of the person might be attracted into that bio-energetic space to which it belongs. This mostly happens when death comes naturally. In cases of violent acts or accidents, this bioenergetics cover might not be attracted in a certain time and space, and it may remain in that part and space where the event or accident happened. In these cases, the place might memorise the event which can, under various circumstances, be visualised. The nature of bio-energy as a QEEMR form of existence enables this. This form of an independent existence of the aura is known among other names as a ghost. Sooner or later it can be attracted by something or somebody and, under certain circumstances or in the proximity of something, under QEEMR influence of somebody or

something, the occurrence can be visualised. The mechanisms of creating various forms of their existence are unknown, and that is why they should be studied because the nature of bio-energy enables their existence. The universal characteristic of memorising all creations further supports this idea. Hence, the described changes of microclimate about these things theoretically might be true, because this phenomena of a ghost during the process of materialisation, when a certain degree of visibility has been achieved, draws an energy from the surroundings and automatically creates an unbalanced microclimate in that place. QEEMR makes the existence of telekinetic, telepathic and other bio-energetic phenomena possible, along with various possible electromagnetic turbulences or electrical discharges. All this can create various micro-atmospheric turbulences, vapour and the like in the air, so the microclimate around this phenomenon would change. This kind of turbulence can be sensed during death. The possibility of creating miniature black or white holes by functional rechannelling of these phenomena can be neither confirmed nor excluded. Energy, like a ghost, can keep its consciousness in the same way as at the time of the event, and can repeat the same movements and activities no matter whether the material structure, surroundings and the like have been changed or not. That is why these phenomena are unchanged and not aged, and have been described by lots of people in various time intervals.

In some cases, the energy and all (or partly), its information of the dead person can be attracted by another individual in this reality, by someone who has similar bio-energetic characteristics or who, for reasons unknown, later shares affinity, memory and the like with the previously departed person, the owner of the bio-hologram. This is known as reincarnation. The structure of the body, that is to say, the QEEMR form of existence of the person's bio-energetic field, the aura, enables the existence of this. Hence, throughout history we have stories told by lots of different people that they know something about somebody who is remote from them, or they know languages that they have not known before, or remember places and events they have never attended and so on. This is possible because, if the auras of two individuals are spectrally similar during transfer into another dimension of existence, the aura, totally or partially, can suddenly bend and be attracted into another person as a photon package of light with complete or partial information of the individual from which it originates. Recent scientific discovery that light can bend supports this. The same happens with spiritual phenomena. There are many reasons for this, but it is within the competence of religion, in cooperation with science, to classify and clarify them. Dealing with such matters here would mean exceeding the goal of this publication and be directly interfering in religious matters, for which high competence is required, especially for these sensitive matters: in spite of the well-founded postulates in this text, there are still things about which we can neither give a final word nor are competent for.

Throughout history people have set rules, norms, and regulations for life, often received from individuals in whom they believed, that is to say, a heavenly being or God Himself through messiahs and the like. Some traditions have been kept even today and many are similar everywhere, such as staying with the

dead overnight at the time of death (which seems universal), and covering glass objects, mirrors and the like after death. From a bio-energetic perspective, this is done to prevent energy from reflecting and to ensure the deceased does not stay chained as a ghost in our presence for ever. Also, various rituals are performed for the deceased: for example, in Christianity the most frequent ones occur in the course of 40 days after death or later. Whether it is symbolic or not, the 40 days correspond to Noah's flood, with the new beginning and the fortieth day of the flood when God sent a rainbow as a sign in the sky. Science has confirmed that, around the time of Noah's flood as described in scriptures, there was a flood on a world scale, or something similar. It is thought that the deceased is still present among his or her immediate family, communicating in a telepathic way or through dreams, for up to 40 days after death. This is interesting because it is thought that in the sensorium of the CNS there are cells that live even on the fortieth day after death. Some religions do not perform any rituals, but they simply bury the body in unmarked grave, which corresponds again to the teachings of holy books and universal messages, such as do not turn back, let the past go and the like. It is very important and useful for people to maintain traditions and religions since there is a possibility that spiritual phenomena as well as afterlife phenomena exists.

With the creation and evolution of life, and in the work of subatomic particles, the atoms in the DNA of the spermatozoa and egg cell, the embryo is formed. On the basis of the postulated theory about bio-energy, with its functioning, the embryo has already created a bio-energetic field by itself. After an abortion, this energetic field can remain or not remain, completely or partly, which explains the complaints of some women about problems with their pregnancy, even though it was terminated. The existence of a phantom leg phenomenon, by the same principle, supports the existence of a phantom foetus phenomenon. In cases like the phantom leg phenomena, people continue to feel severe pains and discomfort in limbs that have already been amputated. This is similar to some women who have aborted, for numerous reasons, and have experienced problems with their feelings about the abortion. According to similar principles and regulations (known or unknown), these women still feel the aborted as a part of themselves. Further, evidence that some people involved in organ transplants, specifically those who are receiving donated organs, start feeling sensations and feelings related to donors of the organs. In each of these cases there appears to be a transfer of bio-energy and memorised moments, and the shared feelings are the result. Investigating this phenomena is a job for science, but a space has now been opened for advancing this kind of discussion, and for finding help for people affected.

Religions are competent to give an explanation of terms such as spiritual abortion, spiritual amputation and the like, so it is clear that the aura comes before, during or parallel with the creation of the foetus, that is, in the moment of conception. As mentioned previously, this is a very important consideration, and it is essential for our survival that it be examined both by religion and science for our common benefit, without absolutely any mystifications or, even

worse, any politicisation of such fundamental matters. Namely, it is present religions that used to deal with these phenomena and, in a way, both death and birth are more or less present in all of them. Therefore, it is important to explore and clarify them for our practical and spiritual welfare, for all of us and for our liberation from any kind of mystery. This is required and, at the same time, offered by the present time and the current level of human development, in order to end our wandering through mysteries, as well as our separating and alienation from each other. This indirectly opens up the question of exorcism and exorcists, a topic that directly belongs to religious spheres and spirituality, and, therefore, every interpretation and similar intervention in that sphere should be avoided. It is left to religions and scientific thought to talk about and clarify these matters for our common welfare, since they are quite justified from a bio-energetic perspective.

Adrian Owen and colleagues at the Medical Research Council in Cambridge (UK), used functional MRI to examine a 23-year-old woman who fell into a coma after a car accident, and reported to *World Science* (September 11, 2006) that her brain responses and reactions to outside 'stimulation' were the same as those of healthy volunteers. In other research, scientists at the University of Pennsylvania School of Medicine (USA) compared the brains of people speaking in tongues to people singing gospel music. They found decreased activity in the frontal lobes, a brain area behind the forehead associated with self-control, of those speaking in tongues. Andrew Newberg, one of the researchers writing for *Psychiatry Research: Neuroimaging* (November 2006), reported:

[It is] fascinating because these subjects truly believe that the spirit of God is moving through them and controlling them to speak ... [The] research shows us that these subjects are not in control of the usual language centres during this activity, which is consistent with their description of a lack of intentional control ... We noticed a number of changes, including in regions tied to emotions and the sense of self ... These findings could be interpreted as the subject's sense of self-being taken over by something else. We, scientifically, assume it's being taken over by another part of the brain. But we couldn't see, in this imaging study, where this took place.

Speaking in tongues, which has existed for millennia and is mentioned in the Bible, is technically called glossolalia. In Christianity, it is particularly associated with Pentecostal denominations. Newberg and his colleagues used Single Photon Emission Computed Tomography, a type of scan in which a radioactive drug is injected into a vein. The scanner then makes detailed images of tissues where cells take up the drug. The process can give information about blood flow and metabolism.

Saint Paul was one of the most famous advocates of speaking in tongues. Speaking with regard to exorcism, one could say that, if there is evidence of physical changes when people speak in tongues, with this phenomenon referred to as God telling them to do it, it is possible that the

opposite side also manifests. Religion is right to consider these issues, which are justified from a bio-energetic point of view. However, further study should be conducted in partnership with friendly dialogue and cooperation between science and religion.

Under certain conditions, when we have precise information about the structure and appearance of an object, the object can be rematerialised. At stable conditions, for example, at absolute zero (-273 C° or 0 Kelvin degrees) when atoms are inert, they can be analysed in a given form and shape with the help of adequate equipment, knowledge and material. Perhaps cryonics, the technology of freezing, together with nanotechnology or similar more perfect new technologies, can give an answer to this issue in the future. However, questions about ethics and spirituality are pending and will be raised again; creating or prolonging life in that way and, the study of these phenomena, with an accent on our spirituality, is highly important. It is within the competence of religion, which, in cooperation with science, would give a complete inspection, answer and direction of these matters.



Detecting the human energy field.

Keith Wakelam

This also raises the topic of resurrection, which, from a bio-energetic perspective, although it seems mystic and non-scientific, is real and possible. It is an essentially important topic for all of us, it is very sensitive, and so it simply must not be studied without the permission and competence of religion. In this context, we can also talk about certain rituals and sacramental secrets of

some religions, such as baptism and circumcision; and some sacramental sacred secrets, such as holy matrimony or birth and the death, that can have a scientific interpretation from a bio-energetic perspective, but without religions and science taking part in the discussion, with an accent on religions, it would be inconceivable and even more unrealisable because no one would benefit from it. Once again, this underlines the need and importance of a religious union as these sacred secrets are accompanied by great spiritual benefits for all of us, but they should become true when humanity is ready to understand and completely comprehend them in a religious-scientific way. Until then, they should stay under religious control as their dogmatic teachings guard the survival and security of our energetic-spiritual world and its essence of existence. Close cooperation with science will result in a universal science that will unite spiritual with physical knowledge for the common benefit and the need of the humankind as a universal brotherhood. This would be of enormous benefit to future humankind, when regulations will be set and based on ethics and morals, keeping morality and ethics for our future generations, our integrity as well as theirs, with nobility as our main characteristic. That can be done only on the basis of truth about ourselves and the world, both spiritual and material, to which we belong. Proofs obtained in these and similar fields will not disturb our rhythm of life.

For example, knowing the mechanisms and proving that telepathy exists as such, and that it is effective, will not disturb the created balance because, with or without that knowledge, the dreams and the call of the soul of those in love would still exist. But, by knowing certain mechanisms, we can set solid rules and regulations that can protect us from those who want to abuse and manipulate these fundamentally important phenomena in the future. In that way, religions, scientists, individuals, believers and the future generations — that is to say, society as a whole — would be protected.



Chapter 3.2

The universe is in constant movement and, with that, in constant expansion. Scientific evidence shows that, with this universal movement, everything in the universe, starting from the smallest subatomic particles to the very universe, must have their poles; that is to say, their dual character or dual partner, according to the principle of particle-antiparticle, matter- antimatter, and so on. Namely, they have to have a + and a - pole or side. What lies in those poles is a question that requires a scientific answer that may come in the future. From our material point of view, these poles, or polarities, are not understood as extreme opposites literally, but more descriptively as they can be near to each other or they can intertwine, and, having in mind the possible existence of other dimensions, then their reality is obvious. According to this principle, the Earth as a planet has its poles, which are not fixed but mobile, depending on numerous local and universal factors. When there are such poles universally, then we can say that everything has their polarities, as is obvious from our everyday life. As atoms and atom particles are polarised, so is the body generally; the Earth and the universe also have their polarities.

By discovering an enormous number of subatomic particles (especially the massive and highly energetic ones of muon, tauon and u-type particles), and the duality of the particles to react as a wave and/or a particle and, with the findings of string theory, the possibility of the existence of other dimensions increases (the theory of superstrings operates with a factor of nine, ten or even more dimensions). They can attract a variety of information so other worlds and forms of existence would be created. According to the principle of belonging, in accordance with the spectrum, these worlds would have their hierarchy, with higher and lower dimensions or spheres of existence on the bases of the spectra. Since there is + and -, then in general a negative world with its subworlds would exist, as well as a positive world and its subworlds,

most likely on the principle of the rainbow or bio-morphogenetic worlds, but again all in one world: said simply, we could say there is heaven and hell. We do not know and always wonder if they are near us or at the end of the galaxy in its poles, and, if they are enormously separated as polarities or they exist as parallels, how they are connected with individuals and so on. Their existence is conditional upon the nature of QEEMR — upon the bio-energy that enables all that. As we have seen, all religions globally deal with this. Individuals who have had a near-death or similar experience have confirmed this.

A research paper published in the *New Journal of Physics* (November 8, 2004), discussed on the sphere of polarised light. With special glasses, one can see colours, 'belts' or 'paths' of light, that appear as a result of the different vibrations of light similar to rainbows. Observers cannot see this phenomenon with the naked eye, only with special glasses. However, scientists have found a mathematical way to prove its existence, according to Marcus Du Sautoy at the Mathematical Institute, University of Oxford (UK). Birds and other animals can detect this phenomenon and use it for navigation and survival. Whales might also be able to see the phenomenon and use it to orientate themselves. Sometimes, because of anomalies in perception of the phenomenon or for some other reasons, a massive beaching of whales can occur (sadly, it seems like massive suicide), possibly because of problems they have with navigating these currents and similar electromagnetic fields. One analogy of this phenomena already described are the striped colours of a rainbow. A rainbow is polarised light in one way itself, maybe on a micro scale, even big in dimensions. Because we do not know for sure almost anything else about this and other phenomena, assumptions based on scientific evidence in these cases are the only leads we possess until more knowledge with more sophisticated technology becomes available.

Because animals might be able to perceive this phenomenon and other similar optic and sound phenomena in nature and so survive, we can justly consider that some animals can detect light and other phenomena around the human energetic field, and so the use of animals (with the help of training dogs and others) is justified in the detection of energetic anomalies in people with certain illnesses where this kind of bio energetic turbulences exist (such as with epilepsy and other diagnostic-therapeutic states), as well as their use in similar occasions. The suggestion that some gifted individuals can detect similar things around people and in nature is also justified.

From our everyday life, we know that sick people who are near to death experience a certain pre-agonised or agonised period during which it seems as if they are talking to someone, revising their life or certain situations, watching it all as though it was appearing on a cinema screen in threedimensional bio-holographic form. From a bio-energetic perspective, they are revising their life, that is to say, looking at certain situations with which they have not come to terms, for a variety of reasons. These everyday experiences are similar to descriptions in sacred books about investigating the dead; that is to say, finding

out everything people had done and what they learned in their earthly life and the like, the value of it and the



It is well known that rainbows have polarised light.
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value of life, so that a judgement can be passed. This subject, which is mentioned in nearly every sacred book and religion, can be explained from a bio-energetic aspect with scientifically founded theoretical hypotheses, and its truthfulness and possibility proved. This gives an opportunity for a more complete study and exploitation of these phenomena in the future, but it must be conducted by as close a cooperation with science as religions will allow. In that way, some standards and standard traditional knowledge would be achieved and postulated in order to avoid any kind of interpretative manipulations by inadequate people with various interests, motives and goals, or connected with some dangerous activities against individuals, groups and the whole of humankind. Experience from the past confirms that manipulation with these, maybe the most sensitive things in Man's existence, can be fatal for individuals, families, communities and even the whole of humankind, therefore such an easy 'wilful' interpretation of all kinds by anyone must not be allowed, nor must manipulation of its interpretations. Thus, traditions, religions and religious people would be more respected, the original interpretations of moments of spiritual character, original rituals and rites would be maintained in traditional unchanged form, keeping believers away from the path that leads to superstition and heterodoxy; guiding them to the right faith, with the right rituals and rites and all in that sense. The highest authority that would bring this 'order' in these or similar moments is, first of all, a united religious community and a united religious and scientific thought.

The possibility of projecting our energy with all its information enables, under certain conditions, this information to be teleported and, by keeping its consciousness, this energy can exist as such or it might be rematerialised. Current science has some knowledge about this already and has shown it is possible, at least theoretically. The existence of paradise and hell, and everything said about them in a classical sense, that is to say, the existence of energetic or material worlds as a part of ours or in a particular dimensional form and shape, are possible realities. Our QEEMR in the moment of death is being propelled and sucked in by time-space energies with similar characteristics to our bio-energy field (BEF). According to public statements made by individuals of all races and all religions, in time and space far away from each other, who have had near-death or similar experience, we can say that they describe generally the same or similar things (in this context), and generally have identical statements that describe a strong white light, as a sphere, ball and the like. Most descriptions are of a world of light, a paradise, which is characterised by beautiful landscapes, bright moments and the like; others, less in number, describe a hell characterised by images of darkness, fires and horror. From a bio-energetic perspective we can say that these descriptions correspond to something that can be described as 'subworlds' of the realms/worlds, dimensions, universes and the like of light and darkness. These 'subworlds' are not lobbies in the true sense of the world because they are formed as separate worlds and subworlds, similar to the principles that apply to atoms with atomic covers and atomic nucleus, or to subatomic

particles. Namely, images of darkness contain horrible scenes in which fire burns everything that can be burned in order to destroy the light in the being so that he or she can be transferred to a world of darkness that cannot stand light (and vice versa). So this is not a world of darkness, but a world with absence of light. Similar, in the subworlds and world of light, souls are being enriched by light destroying the darkness as a preparation for a world of light, a world filled with light, a world with the absence of darkness! This can be identified in its own way with spheres of quantum chaos that appear in a form of a sphere in which there are waves that vibrate at different frequencies, creating a certain degree of serration on the surface of the sphere that causes it to expand.

It was mentioned earlier that the universe creates virtual spaces on its periphery; that is to say, virtual energies and particles that annul and form again, constantly creating a negative space that extends the universe. From a bio-energetic perspective, this would look like such a sphere. It would be a world where individuals belong on the basis of their resonant activity of their BEF and the sphere of resonance, that is to say, their morphogenetic field of belonging, and so on. In this way, the existence of virtual worlds is justified by the principle of bubbles, spheres or balloons that are described by physics as the possible existence of parallel universes or multi-universes. This is in accordance with quantum physics.

Time and space as such do not exist in these virtual worlds, thus the claim of some individuals that they were in contact with somebody and received a message that can be identified with some events from the past, present or future is a virtual one with no exact time frame, but with exceptions. In that way, mediums obtain contact information about lots of things, but not precisely in time or in the right order. Individuals with near-death or similar experience say that, after seeing light, they are carried to a place where they can see a big wall with doors, water, a river and a bridge, and somebody leads them through or across them (or not). Very often, individuals return from these virtual places with a message or a task that they need to accomplish during their life. Later on they also become better, happier, more fulfilled, more productive by not paying attention to material things. Some of them also say that their lives have been changed in a way by a special being like a superior spirit, intellect and and so on; that is to say, there is a revision of their life or segments of it and they are returned to 'mend' something about it. The point stated earlier about possible revisions of situations with the help of computer programs makes this experience possible and truthful. We can say that these contacts are like a three-dimensional dream, and they are interactive and virtual, but not fiction. They are described as live happenings with the existence of consciousness; the individuals' consciousness of how to transfer to that place and communicate with their close relatives and friends, after which they return to reality, the returning of their consciousness as 'sucking in' of a three-dimensional bio-holographic package by their own physical body. Teachings from physics, especially quantum physics, about this can explain this theoretically. Some individuals (a few) have experienced the presence of their own consciousness,

we should say, in frightening places, and they describe scenes full of darkness and dread, fear and horror, which confirms the existence of such dark worlds known as hell, which can be one with its subworlds or something similar. This has likewise been described by holy people throughout history and it is recorded in sacred books. From antiquity, they have been identified by the claims of people from all parts of the planet, members of all races and faiths, and as identical ones, regardless of time and space, modern science making them possible.

Fritz-Albert Popp, a German physicist who worked in collaboration with research groups from China, studied light emission of soy and cucumber cells, and concluded that DNA can react as a laser source of light, emitting photon sparkles weak in intensity, so-called bio-photons. The rays of these bio-photons and their wave length were of infrared, that is to say, of the ultraviolet spectrum. Growing cells had greater intensity than fully created ones; even cells that were dying out showed intensive photon emission.

Professor Harold Saxton Burr of Yale University (USA) and colleagues studied the energetic field around Man, managing to detect and measure it, and calling it a blueprint for cellular construction. According to Burr, and thanks to this energetic field, every damage to this cellular construction, that is to say, structure, would be repeated in the same arrangement, form and pattern as before. It seems that this field has memorised and carried the whole information about our structure that, in a way, confirms the ideas presented in this text. Burr is noted for his use of the voltmeter to detect the electromagnetic potential of the body, first reported in his 1936 paper (with C.T. Lane and L.F. Nims)describing “a vacuum tube microvoltmeter for the measurement of bio-electric phenomena”.

Henrik Ehrsson of the University College of London (UK) and the Karolinska Institute, Stockholm (Sweden) is the author of one of the studies about near-death experience that was recently published in *World Science* (August 24, 2007). Using virtual glasses, he managed to obtain a neardeath experience in healthy volunteers in a laboratory, which, in a way, further supports the possibility of its existence, as well as the importance of dealing with it carefully because it affects religious and theo-philosophical teachings of humankind. United religious and scientific thought would be an adequate authoritative institution.

Co-author of a recent study and discovery of the so-called Dark Star, astrophysicist Paolo Gondolo of the University of Utah (USA) reported in both *World Science* (December 6, 2007) and *Physical Review Letters* (January, 2008) that at the beginning, after the Big Bang had happened, there may have been and there still are Dark Stars that would be massive, probably even as large as 200,000 suns, that cannot be seen by the naked eye. From a bio-energetic perspective, this is very important, because it confirms everything stated in this text and speaks about the possible existence of another dark world, a universe that would represent an absence of light and would exist

parallel with ours. This is also in line with religious and other theosophical teachings, in which this dark world is a part of our reality. Elaboration of all this requires the right interpretation and study and the right application of the results not only by science but also by religions. However, this cannot end here and, since everybody on the planet is affected, there is an urgent need to present the truth to humankind so that it can adequately strive for a better and more secure future.



Chapter 3.4

Our evolutionary development does not allow us to be aware of some processes, events, phenomena and the like happening in our daily life, which does not mean that they do not exist. For example, atoms with the rotation of their subatomic particles, look like clouds, that is to say, like a compact unity. If the rotations are larger or smaller, they may look different. For example, the C-carbon can be found in various states: from coal, which is black, breakable and opaque, to diamond, which shines brilliantly, is transparent, and is nearly the most solid material on Earth. This can be further illustrated by aircraft propellers, which can rotate with enormous speed. When the propellers are rotating slowly, we can see them but, as their speed increases, we see a disk then, at a faster speed we see nothing. We can see the same thing as a house fan speeds up. In this way, things can become invisible under various circumstances from time to time, such invisibility being obtained without the use of technology to manipulate light. So, according to the speed and resonance activity of parts of the objects, like the propeller, fan and so on, or of subatomic particles in atoms or similar, an 'invisible'/translucent state can be achieved just as if a 'window' had opened through the objects. The fact that we can and cannot notice with our senses is due only to, speaking generally, our limited reality at our present level of development.

Earlier it was stated that people who practise meditation achieve an elevated state of mind, body and soul — a relaxed, comfortable, pleasant feeling. In that moment, both sides of the brain and all the body are as one, and the brain waves are reaching the alpha-theta stage: according to science, beta waves are characteristic of the conscious state, and have more rapid frequency; alpha waves have a slower frequency and are characteristic of a relaxed, almost near sleep, state; theta waves are characteristic of those in deep sleep or a coma. In the latter state, atoms and subatomic particles are in harmony, so they are

regrouping themselves spontaneously. As previously mentioned, at one stage they can reach a resonance that opens the window to outside dimensions of existence, allowing a transfer of energy and energetic communication with this outside world for them, with all information needed being exchanged and 'translated'. At this stage, almost all phenomena previously mentioned in this text are already taking place. This state can be achieved automatically by highly trained or gifted people. It also can happen in other situations mentioned in this text.

From a bio-energetic aspect, in this state of resonance a 'window' to 'outside' opens. The process can be self-initiated using positive thoughts, spontaneity, or similar; or it can be forceful and unexpected, in which case a 'rupture' in the time-space continuum is happening and resonance with the BEF of the person is achieved, as in cases of near-death or accidental sudden death, and so forth, when the process is violently and abrupt. This window or rupture in the time-space barrier can be achieved willingly (consciously, subconsciously or unconsciously), or violently on a micro and macro scale, and the result is almost the same. However, in some cases this rupture is more likely to be caused by human will with no knowledge of the seriousness and consequences of it, or in other cases it is willingly done as a act of self-promotion, to obtain prestige or for selfish interests, or through an act of evil. That is the case with atomic explosions on a macro scale and with heavy particle colliders, especially hadron particle colliders, keeping in mind that charm subatomic particles are in the group of hadrons, so in this situation many things could happen.

In a way, this is like opening the space-time continuum and is similar to time travel. Time, unlike space, is passive, always standing by and following space: for time travel one does not need some special aircraft or rocket, but something similar to a heavy particle collider or similar. In other words, 'natural time travel' may occur during deep prayer or transcendental meditation. Experiments of any kind involving the above (like manipulating DNA, which can interfere with both animals and plants, affecting humans in their roots of existence), and many other phenomena of any kind, without enough knowledge and experience could be serious adventure with terrible consequences, so they are not advisable. Even curiosity of people is unpredictable so people are a danger to themselves during their long evolutionary road. Fortunately, somebody or something is looking after us still, but it is time for humankind to take serious steps and responsibility for itself, and to avoid temptations and to deliver themselves from evil, not always blaming God for something that is truly a human mistake or sin. Knowing this will help humankind in the search for itself and will initiate a better progressive path towards a brighter and safer future for all on this planet, which is well deserved after all the atrocities people have been through.

Self-preservation is very closely connected to self-discovery. Religion, through self-knowledge, diet and relaxation techniques, including meditational activities, can realise a state of self-discovery and a universally more real discovery of things. This self-knowledge can bring a comfort that is nearly

complete to people and to the planet in general. Science can help, too, working with religions in some kind of friendly dialogue on matters of mutual interest for humankind and preservation of the planet, not only to preserve something, but to make it safer and better, therefore progressive.

Diet is a very important thing for people's health and well-being, that is to say, the right way for development of individuals and collectives in the right direction, which every religion has been practising in the right way and manner for centuries. As stated earlier, diet also affects our mood and, with that, our mental health and emotions. For example, if our diet is unvaried, more acidic, it can cause, by changing the polarity of the cells, only one hemisphere of our CNS to work more or activate just some of its centres, and that can cause greater depression, nervousness, moodiness, illogical thinking, low concentration and so on. A more alkaline diet would bring more freshness and high positive, bright mood. Therefore, it is very important to practise a vegetarian or mixed diet with occasional shorter or longer fasting; that is to say, a balanced diet and a common cleansing of the organism. In this way, a balance of our emotional life as well as good health with regular quantities of cholesterol, sugar and the like in the blood can be achieved, to which fasting brings extra beneficial effects. While this is practised and preached by nearly all religions, it is most clearly expressed in a Tibetan traditional way of living and eating. Their diet is intermingled with traditional Tibetan medicine, which pays great attention to the importance of flavour in the diet. As a result of this kind of diet, and living such an orderly life as traditional Tibetans do, we would have a healthy population, and an enlightened and inspired world. Think of the benefit that traditional ways of living give to humans when the cultures of the world are combined.

During the state of deep prayer or transcendental meditation, we can achieve consciousness and enter some energetic worlds, where we can devote ourselves to wholeness and the 'truth of the inner and outer self of the universe', as well as to ourselves and our existence. From this often repeated state we will return with different feelings, thoughts and consciousness about ourselves, our surroundings and the universe: we will be familiar with everything; we will understand everything, be happy and close; we will feel an omnipresence and complete attachment to our surroundings, followed by comfort and harmony. Thus, we will have a larger quantity of energy, a larger enlightened aura, and a friendlier attitude towards everything. Individuals will help themselves through self-control and self-healing and, at the same time, help others by spreading spiritual radiance around their surroundings. Greater enlightenment will mean greater, more sincere, brighter and more numerous connections, contacts, encounters and activities, with which individuals can help other people as well as the whole world.

It is the difference in their energetic fields that makes people different. Namely, they all have the same structure, the same organ function and the like, but the thing that is not common to all is their aura or bio-energetic field. At a conscious or unconscious level, it opens or unlocks the jammed centres, widens

communication and enlightens us in every aspect. This is what makes holy people what they are, opening to them new perspectives and worlds that they can put across to the general mass of people. With their holiness and light communication, they can realise more and make closer communications at that level, as well as at a greater distance than ordinary people. They can pass on their experience to others, their closest ones as well as strangers, who may not be able to comprehend, showing all kinds of common good that they should keep and value for their betterment and the better self-discovery of themselves. A lack of understanding and opportunity to explain in the correct way has always created conflict. That is why the practice of prayer and transcendental meditation, as well as other bio-energetic phenomena and many spiritual matters, are necessary and should be scientifically explained; everything should have its place. A science that will unite spiritual with physical knowledge can do that; it can ensure the right place for Man in the universe, well intentioned in order to overcome rivalries among people, which are the basis of nearly all negativity.

During studies of subatomic reactions, subatomic particles react suddenly in a way that suggests influence from the observer. This 'observer effect' has been repeated, and has become accepted as a rule. In a way, it is a good example of the charm-resonance system and, thus, the interplay of the subject and the object of the interaction. The earlier mentioned 'consciousness' of subatomic particles and the Gauge theory, according to which each particle that is a carrier of force feels that force — as well as its instability and change from a particle to a wave energy and vice versa — enables the existence of the same consciousness as the energies as carriers of information. Hence, it is justified to direct our thoughts to prayers for somebody's benefit or to the benefit of all living on the planet and the universe. In this case, we must mention the theory of nuclear democracy, or the so-called bootstrap theory, postulated by Geoffrey Chew in 1959. According to this theory, there is no particle that is more elemental and more fundamental than other particles, while the forces that affect the particles are observed and treated as conjured connectors — links of interactions between events. Although not too popular, it is important and true, and has a place here because it doesn't matter how and if a particle is fundamental or not: if there is no ordinary particle to link the needed reaction, all the processes may simply 'die'. Our ordinary life is the same. Everybody should be equally important; presidents are in their positions and paid to do what they have to do, but maybe once in a lifetime another person far away will write them a letter in a time of special need that opens a range of new possibilities and prosperity for all on the planet or even in the universe. That is why, from a bio-energy point of view, each and every person is valuable equally and is also why in the world of the future everyone should show respect and give help to others: nobody knows who will be there to help them tomorrow, or who was helping their families in their time of need in the past, so who will help their grandchildren in the future in the time of need? Respect each other as brothers and sisters.

Identical twins are known to almost always think the same and react as one being to various events in life, although they may be separated from each other in time and space. It seems as if they are the same at one moment and in one place and time. In the same way, a mother or father feels when something is wrong with their child; they feel the child as a part of themselves. Even though they are distant in time and space, at that moment they are one. This would be nearly equal to primal consciousness, or as we call this or similar phenomenon, telepathy, at which the particles are aware of what they carry, as the mother who is aware of what she carries in her mind. That is the call of the soul, the cry and the joy of our soul, which is the same for anyone, regardless of race, nation and religion; it is the same for all kinds everywhere and forever. This is the true language of the universe. Maybe somebody also senses us; maybe somebody around us or far from us, in this or other dimensions, longs for us, loves us and helps us as much as possible. This seems simply like an echo of light. On the principle of reflected sound, that is to say, wave, the light suffers and is subjected to an echo, roughly speaking. This has already been experimented on and recently mostly spectacularly observed on a macro scale: the Echo of Light, from the Hubble Telescope (February 3, 2005). Scientists managed to detect how light causes an echo even three years after the first observation of this echo, of the star V 838 in the Monocerotis constellation at the edge of the Milky Way, 20,000 light years from Earth. It seems that the same happens in DNA. Following an event or time, certain genes of DNA are activated and radiate light, this light activating other genes so that the information, programmed or learned, gets materialised. The same principle would work both for a microcosm and a macrocosm.

A wave in calm water spreads in all directions, and sooner or later reaches the shore with different intensity and size. The same happens with the human soul, which is like a stone or a grain of sand in the universal ocean of consciousness. If this soul, as a source of wave, is important to its species, and the universe in general, with what it carries as information, a real storm can be caused and, although there may be a lot of obstacles, the outcome can be positively and irrepressibly spectacular, like a snowball or spiritual tsunami. The echo spreads everywhere, every obstacle is skirted round and the obstacle becomes an amplifier to this wave (interplay, as presented in this discussion): a message, a pledge, God's will, which in a generally incomprehensible and mysterious way sooner or later arrives at where it should. This pledge, this mission, is realised in a mystical way, and that is why God's paths are unknown, mysterious, long and hard.

According to Einstein's gravity theory, an empty space is capable of creating energy; that is to say, the more space, the more energy (the so-called space energy). It is Einstein who first predicted the existence of dark matter, known as a cosmological constant, but he later gave up that idea after Hubble had discovered that the universe was expanding. Study of dark matter and the enigmatic dark energy, which gives the dark colour of our universe, has increased since 1990. According to quantum theory, it is known that empty space contains particles that are temporary, are constantly disappearing and

creating so that, as stated earlier, they create a negative space that enables the universe to expand. Having in mind the fact that the force of gravitation is greater than the force of dark energy and, according to the latest scientific knowledge in astronomy, our universe is expanding with enormous (for us) speed (we have a racing or galloping universe), there is a tendency for galaxies to become increasingly separated from each other so that they could become lost beyond the horizon. What is beyond the horizon is another big enigma. But, from a bio-energetic perspective, this ever-expanding universe can enable each separated galaxy (or a part of the lonely space through contracting and the like) to become its own universe, which will later expand, contract, create and evolve. This movement of the whole universe, with its all dimensions and forms of existence, with all its formations and information and so on, has been characteristic since its very beginning, a constant regulation derived from its very foundation.

Some researchers have discovered an astronomical phenomena that is being termed a 'dark flow', which refers to the movement of remote clusters of galaxies and linked to the expansion or inflation of gases present in the universe initiated at the last Big Bang. Alexander Kashlinsky of NASA's Goddard Space Flight Center measured unexpected motions and radiations among galaxy clusters and found indications of gravitational pulls that operate beyond the limits that observers can detect. Kashlinsky used data on the universe expansion theory from 2006, and concluded that "the distribution of matter in the observed universe cannot account for [the] motion" of gases and that whatever is causing the pull is coming from beyond the visible universe. Others have noted that the limitations imposed by current measuring instruments make the investigation even more difficult. These extraordinary and unexpected findings from something beyond/'out of ' this universe, according to scientists involved in this research, give strong support to all that has been mentioned previously in this text, opening many chapters and asking many questions about the topics under discussion here.

It seems that there is a continuous struggle between light and dark in this process, a struggle for sovereignty that is ever present. Also, according to scientific knowledge at this level of development, there is a struggle between gravitation, which has a tendency to expand the universe, and dark energy, which has a tendency to contract the universe. In this instance, the gravity force prevails, so there is an expansion of the universe. This expansion enables the creation of more forms of energy and life, starting with subatomic particles. These create atoms that in turn create molecules and more and more compounds in their evolution; that is to say, they tend to achieve perfection in their development — the perfection of matter and energy. From a bio-energetic perspective, everything in the universe, including Man, has a quality and tendency to attain perfection in the course of its development. What works for the material dimension also works for the energetic dimension of all existence.

We can notice that basically there is a constant conflict of opposites. On one hand there is dark energy with its main characteristics being to contract or destroy, leading a regression back to the beginning of everything in singularity. This is what can be seen in black holes which, according to bio-energy, might be a concentrated form of dark energy created as a kind of factory of dark and other kind of energies, where even light cannot escape. On the other hand, there is light, which, as an energy, is present in almost everything, basically as quanta packages. Light, which performs interactions with very little, is, in its way, a world of its own. Present in nearly everything we can detect, light's basic quality is to expand (the quantum particles as gravitons take part in the gravity force) and therefore create more and more new creations, mirror images worlds or real more and more worlds of existence.

Exotic antimatter finding may clarify cosmic symmetries

March 4, 2010

*Courtesy of Brookhaven National Laboratory
and World Science staff*

Physicists say they have detected the heaviest “anti-nucleus” to date, a rare specimen of a sort of mirror-image form of ordinary matter.

The finding may shed light on cosmic symmetries, and asymmetries, that explain why most of the antimatter originally produced at the birth of the universe is gone, according to scientists.

An antiparticle is a variant of one of the normal building blocks of matter that has equal weight, but is opposite in electrical charge and certain other respects, to its “normal” particle counterpart. As a nucleus is the core of an ordinary atom, an anti-nucleus is the core of an “anti-atom.”

The newfound anti-nucleus also contains the first example of a smaller, equally exotic component building block that physicists call an anti-strange quark.

The discovery “may have unprecedented consequences for our view of the world,” said theoretical physicist Horst Stoecker, Vice President of the Helmholtz Association of German National Laboratories. “This antimatter pushes open the door to new dimensions in the nuclear chart — an idea that just a few years ago, would have been viewed as impossible.”

The finding, at the U.S. Department of Energy's Brookhaven National Laboratory in New York, may also help shed light on the workings of compact celestial objects known as neutron stars, researchers said.

The nucleus of a normal atom on Earth consists of building blocks called protons and neutrons, which in turn contain smaller components known as quarks. These quarks appear in two types, arbitrarily called "up" and "down" varieties.

The standard Periodic Table of Elements is a grid arranged by number of protons, which determine each chemical element's properties in its basic interactions with other elements.

But physicists also use a more complex, three-dimension chart which adds information on the differing number of neutrons that can occur in samples of each element. The 3-D chart also indicates a number known as "strangeness," which depends on the presence of so-called "strange" quarks. Nuclei containing one or more strange quarks are called hypernuclei.

For ordinary matter without strange quarks, the strangeness value is zero and the chart is flat. Hypernuclei are charted on a separate grid, which is shown as if hovering above the standard table. The new discovery of strange antimatter with an antistrange quark—an "antihypernucleus"—marks the first entry below the standard grid, scientists explain.

The bizarre particle was detected as a result of high-speed collisions of gold nuclei at the Relativist Heavy Ion Collider, the Brookhaven laboratory's atom smasher. The results were published March 4 on the online edition of the research journal Science.

The study of the new antihypernucleus also yields a valuable sample of hypernuclei, and has implications for our understanding of the structure of collapsed stars, called neutron stars, researchers said. "The strangeness value could be non-zero in the core of collapsed stars," said Jinhui Chen, one of the lead authors, of the Shanghai Institute of Applied Physics and a postdoctoral researcher at Kent State University in Ohio. The new measurements "will help us distinguish between models that describe these exotic states of matter."

The findings also pave the way for exploring violations of fundamental symmetries between matter and antimatter that occurred in the early universe, making possible the very existence of our world, physicists added.

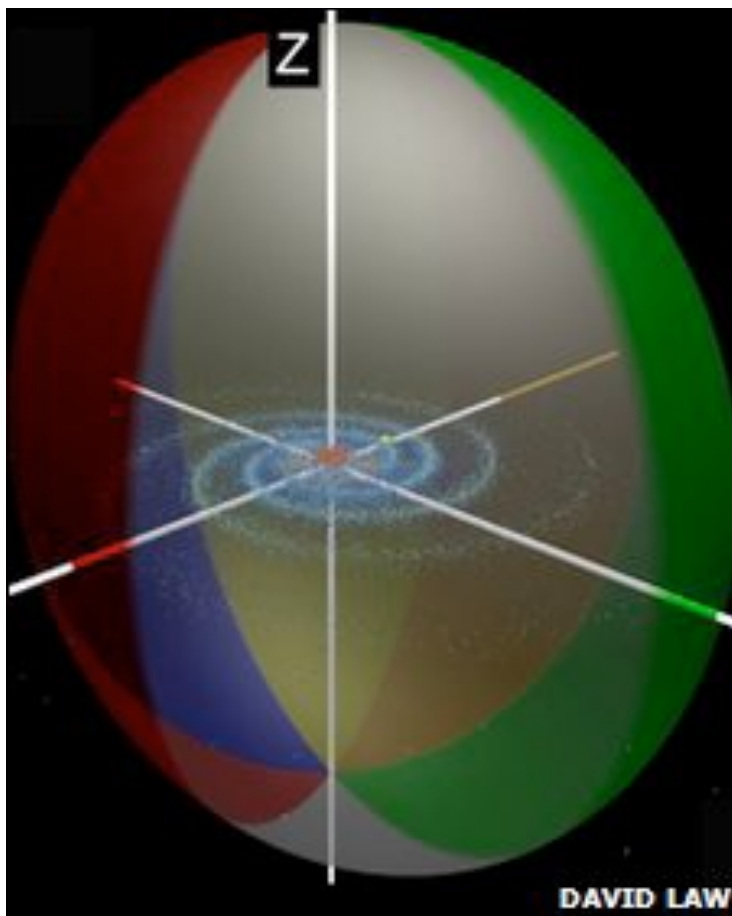
Smashups between atomic nuclei at the collider are believed to fleetingly reproduce conditions that existed a minuscule fraction of a second after the Big Bang, which scientists believe gave birth to the universe as we know it some 13.7 billion years ago.

In both events, quarks and antiquarks emerge with equal abundance, according to physicists. At the laboratory, among the collision fragments that survive to the final state, matter and antimatter are still measured as close to equally abundant. In contrast, antimatter appears to be largely absent from the present-day universe. ...

BBC

Page last updated at 18:11 GMT, Wednesday, 6 January 2010

Dark matter 'beach ball' unveiled



More dark matter appears to lie above and below the plane of the galaxy

The giant halo of dark matter that surrounds our galaxy is shaped like a flattened beach ball, researchers say.

It is the first definitive measure of the scope of the dark matter that makes up the majority of galaxies' masses.

The shape of this "dark matter halo" was inferred from the path of debris left behind as the Sagittarius dwarf galaxy slowly orbits the Milky Way.

A team of US astronomers announced the findings at the American Astronomical Society meeting in Washington.

Dark matter is a mysterious kind of matter that makes up nearly a quarter of the mass in the universe, but does not interact with light and so has until now remained invisible to scientists.

Mass transit

However, because it has mass, it acts on matter as we know it through gravity.

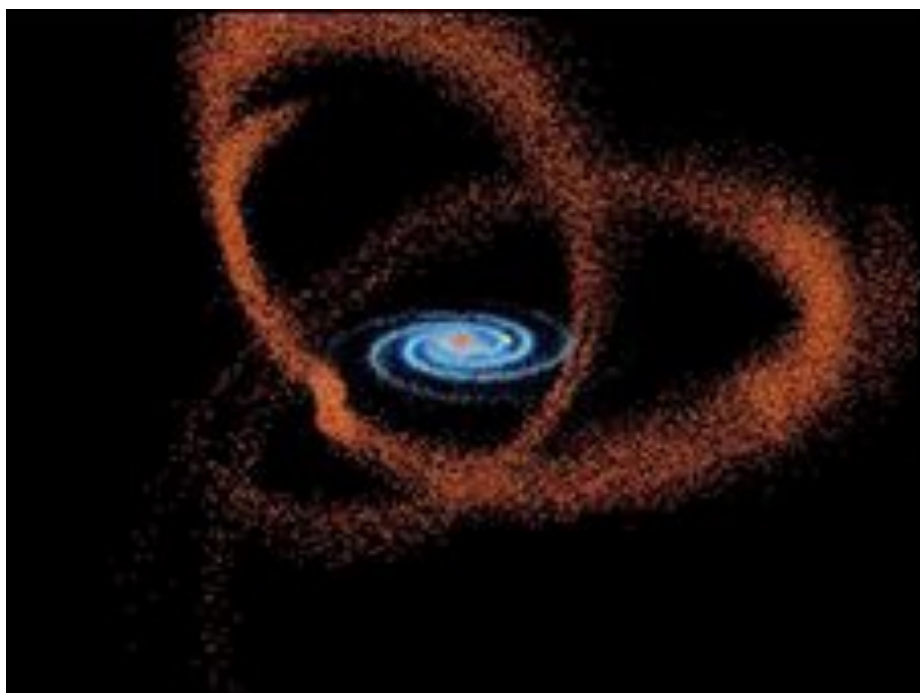
"You can't actually see it directly, you can see it through its effects on stellar structure, star clusters, and dwarf galaxies orbiting around the Milky Way," explained David Law of the University of California, Los Angeles, the researcher presenting the work.

"So what you want to do is map where these star clusters and dwarf galaxies go and use that to reconstruct their orbits and where the mass is."

Dr Law and his colleagues turned to the Sagittarius dwarf galaxy as one of the best-studied cosmic neighbours orbiting the Milky Way.

Using data from telescope surveys of stars across the full scope of the sky, including the Two Micron All-Sky Survey (2MASS) and the Sloan Digital Sky Survey, the team was able to identify individual stars that had been dragged out of the tiny Sagittarius galaxy as it skims past our galaxy.

But in thinking about the Milky Way's dark matter halo as a sphere surrounding it, something didn't fit; the positions of the galaxy and its apparent speed didn't line up.



The trail of matter left by an orbiting galaxy hints at the dark matter's shape

Dr Law's team then came up with the idea that the halo might be different sizes in different directions, and allowed for this in their gravity model.

What came out is what Dr Law described as a "cosmic beach ball, squashed from the side", flattened along the direction corresponding to the plane of the Milky Way.

The fact that the un-flattened direction should be above and below the galactic plane remains a mystery.

"It's a little weird in current dark matter models, but it'll be very useful in helping constrain future models, not only of dark matter itself but also how galaxies such as our own form in the universe."

The 215th American Astronomical Society meeting was confirmed on Wednesday as the largest astronomy meeting in history, with more than 3,400 attendees.

All this is a peculiar unity of what has been preached in holy books and in almost every theo-philosophical school on Earth: science proves and confirms it every day. That is why it is high time our hereditary self-destructive quality was overcome and respect, equality, friendship, coexistence, peace, harmony,

progress, forgiveness, the innocent happiness of childhood started spreading so that all souls and hearts on the planet can stride over their material and other obstacles in their hearts, heads and souls on their way to becoming more human.



Chapter4

Macrocosm, microcosm — Bio-energy science



People have always been excited by the universe, its calmness and beauty, and mystical depth, its infinity and its eternity. The reasons have been various and, as a sort of hereditary characteristic, it has remained even today. It is as if somebody wanted to warn people, no matter at what level of development, to raise their heads towards the universe all the time, perhaps to remind them of where they came from and where they belong; that is to say, who they are. As the millennia passed by, Man has been changing but the universe has remained almost the same, unchanged by our perceptions, eternal and eternally waiting to be discovered by us. And we, in the course of our 'progress' have been destroying ourselves from the beginning, inventing more and more new means of massive elimination. However, it seems that we did not succeed in our intentions. It seems that somebody from above constantly watches us and our dangerous children's games in order to save us. It is as if an invisible power were constantly around us, protecting us from stupidly destroying ourselves; fortunately, the power has succeeded. In return, we have tried to destroy that power, but here, too, we have failed.

The time has come for people to realise that they should live together happily with others as one family on our still wonderful planet Earth. Thanks should be given to the power that created us, looked after us, brought us up, and nursed us in order to become finally what we consider to be — human beings. Time will show whether and how much people have succeeded; time that is in abundance for that power as an instant, while for us it presents an eternity. Time will show if humankind is going to understand that the time of its life and of this dimension is too short to be wasted in attempts at self-destruction, and so destroying planet Earth together with the universe, our true home with its all dimensions of existence. Instead of using life for self-destruction, that is to say, wasting life and the lives of others, or spending life trying to destroy ourselves and all around us — known and unknown at the level of our evolution that has already become a reality — we should start working, dreaming to do good, humanitarian things, preserving and building what is left 'after the storm of our suicidal behaviour' for the benefit of all on this planet.



An artist's impression of the universe at its beginning.

NASA

From a bio-energetic perspective, if we follow the universal development, there will come a time when people become more conscious of themselves and their environment, nature and the universe, and so they will be more responsible, more mature, wiser, more refined for a kingdom of heaven and on earth with one law for heaven and earth: the law of love, truth and light. Yes, the time is coming to show the truth about Man.

As mentioned in Part 1, the influence of the universe and the heavenly bodies on us and our surroundings is clear. The reactions of both plants and domestic and wild animals in our immediate surroundings are a good example of this. In this context, the most spectacular phenomenon is the regular rise and fall of the level of the sea through high and low tides; it has been proved that this phenomenon is caused by the gravitational force of the Sun and the Moon on Earth. In Part 1, this interaction, visible to us as high and low tide, was symbolically characterised as a breathing process of the universe. Here we can extend this term and can say that perhaps this is a breathing and contemplative process of the universe.



**Earth and the Moon
viewed from the Galileo
Orbiter spacecraft.**

USGS/NASA Flagstaff

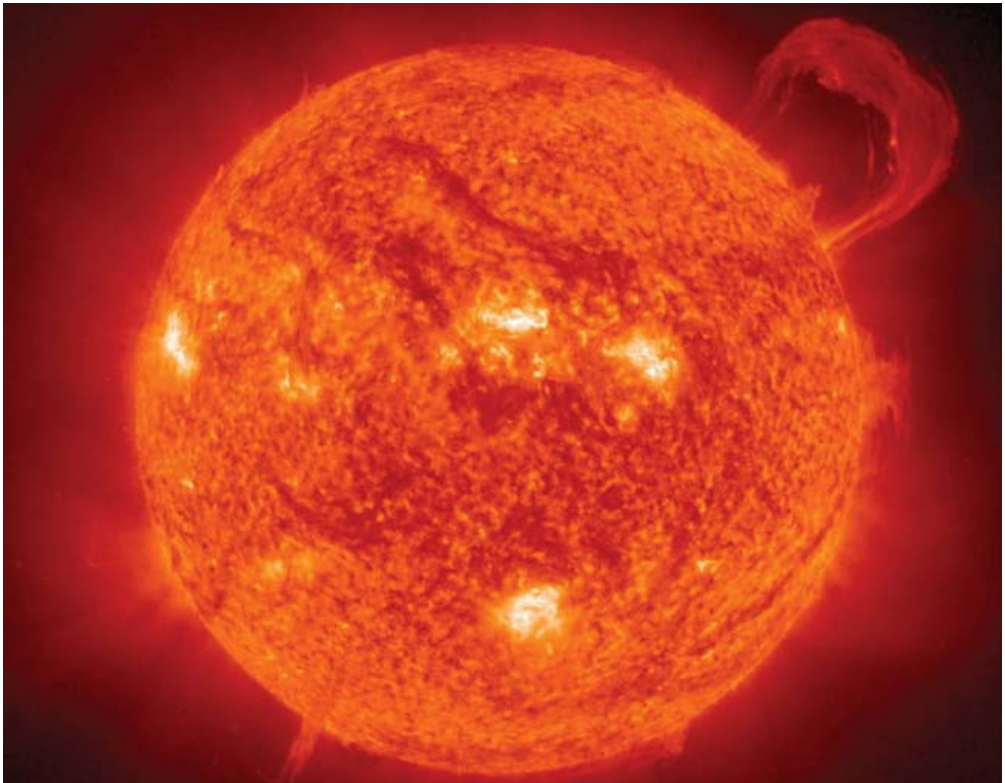
Kiwamu Nishida of the University of Tokyo's Earthquake Research Institute has analysed 10 years of seismic data and tied the seismic waves to similar oscillations in the atmosphere. Inaudible sound waves in the lower atmosphere push and pull on the ground, say the researchers, creating coupled 'sound'

waves, or seismic waves, inside Earth. The initial source, not as yet determined, could be changes in atmospheric pressure.

The Sun, as a star, gives and receives these energetic interactions and is 'aware' in its own way of that, and on the basis of these interactions it reacts in its own peculiar way, as similar stars would react. Thus, in that sense, it suffers and affects the environment, balancing the magnetic-energetic mechanisms by which the Sun's influence increases or decreases, mostly visible to us through increased activity of the sun such as solar winds, sunspots, and so on. This has consequences for humankind, sensitive as we are to the sun, winds and the weather cycle. Healthy systems can usually balance changes in the sun's intensity. Those who are unwell tend to find it difficult to balance invisible electromagnetic activity and solar energy with repairing their own bodies. That is why during periods of intense sun activity, medical personnel advise the public, and especially the sick, from leaving their homes. All this indicates that these energetic reactions exist and are so strong that we, as miniature organisms, are heavily influenced both on the individual and cultural level. Even planet Earth, in its own peculiar way, is 'aware' of these magnetic and energetic radiations, and it reacts by altering the electromagnetic fluxes, waters and so on of its own systems, evidence of an energetic balance and suggesting a communication between related objects in the universe for various reasons unknown to us. It is to our great benefit to know and study all this, so as to learn how to protect ourselves and the planet for our own advancement and survival. The priority should be on progressing, learning and developing our understanding of the situation and condition of ourselves and our planet, instead of wasting time and money on childlike games such as proving strength to each other by acts of war.

Besides the visible tides of the seas and the interaction with inanimate nature, the interplay between the universe and the animated world on Earth can also be seen in the reactions of animals, for example, the howling of dogs and wolves at the time of a full Moon. This interplay between Moon and Earth affects animals, and they react. Some studies conducted in the USA showed that people committed more criminal acts and violent actions than normal during a full Moon. It has also been confirmed that, during the course of a full Moon, we become more active, more nervous and the like, so insomnia and other similar symptoms are more frequent. Just as the Moon influences the planet and its nature (animate and inanimate equally), so the Sun, as our star, influences our planet and us. Recent studies have shown that during sunspots and solar storms, when the Sun is active in a thermonuclear sense, its influence and radiation projects onto our planet and, according to the quality of interplay in the form of solar radiation, these interactions may or may not be harmful. Very often the electromagnetic radiation intensifies during a larger solar activity and, as a result, not only do plants suffer with flowering set back and defects in fruit and the like, but people suffer also. As mentioned earlier, sick people with heart problems and other chronic diseases are affected, and they are advised to avoid going outside, walking or doing other kinds of activities during this period of time. Healthy people may also have problems and should be cautious

because risks such as skin cancer and the like increase. All this speaks about interactions.



Solar prominences.

NASA/Skylab Space Station

Not only lovers and philosophers, but also scientists, have been attracted to the universe. With the advancement of science as a whole, specially after World War Two, physics has grown a lot; that is to say, astronomy and other fields of science with an accent on a quantum mechanics and therefore on subatomic physics. Many new things about the processes of nature, and about humankind and the universe have been discovered. Many theories about the origin of the universe have been postulated and the discovery of many subatomic particles has been made. A significant recent development is the discovery that the space-vacuum is not an empty space, as previously thought, but is a space filled with various subatomic particles and quantum-electromagnetic radiations, and

so on. In that sense, our planet, the people and the whole of nature have been continuously exposed to varied radiations. Some of these were discovered by studying; some were discovered by accident. It is very important to explore all this because there are reactions and interactions (interplays) that have effects on us as well.

Today there are lots of theories about the origin of the universe. Very often they talk about a very condensed mass that exploded in a big explosion at one moment, the so-called Big Bang, scattering the mass along the whole universe, creating it in its present form. There are also theories that say that the universe has not been fully developed yet and is in the process of expanding. In the beginning, before the Big Bang, it is thought that mass originated from the emptiness, from the quantum vacuum and its later vibration and quantum fluctuation.

In 1981, A.D. Linde and Andreas Albrecht, and Paul J. Steinhardt independently, developed an alternative theory about the origin of the universe — the so-called New Inflationary Theory, which in many aspects substantiates ideas about an inflationary universe that Alan Guth presented in 1980. As already outlined, the central proposition is that the universe possessed mass that suddenly and rapidly expanded. This produced the Big Bang explosion and the scattering of the mass around the universe, creating it as we know it today. The mass maintains the quality of creation from the very beginning, as well as the regulations and movements from which the identity of the universe originates — the identity of the planetary and galactic systems already created and in creation. It is thought that the same reactions, including the rotational movement that took place billions of years ago, can be noticed in the constellations throughout the universe. The latest research, photos of stars, and so on, have shown that our universe is 13.7 billion years old, with another 200 million years since light was first created, so that we can talk about an age reaching nearly 14 billion years from our perspective (and our time), according to Kashlinsky and the research team of NASA Goddard Space Flight Centre. According to the results of their research, the same laws and forces, which at the beginning were concentrated in only one force holding the mass together, rule all over the universe. As stated in Part 1, there are forces that hold the universe compact as one unity. According to science, there are forces of great distances (Electromagnetism and the Gravity Force) and forces of short distances (the Strong Force and the Weak Force). It seems that, at the beginning, these forces were concentrated into one simple force that managed to hold a huge mass compact. The main preoccupation of scientists is to study this force in order to qualify/quantify it and possibly use it for our benefit. So, with the extension of our knowledge, we are going to produce theories that will discover the regulations and forces from which this primal force was created. Thus, the united theories are being developed to study this.



Jersey Aurora

PhotoLibrary/John Chumack

In 1974, Howard M. Georgi and Sheldon Lee Glashow developed the first of the Grand Unified Theories (GUT). The Strong Force, Weak Force and the Electromagnetic Force were included in it as variations of one 'simple' force that split in parts when the universe began to cool down, that is to say, after the big explosion. Apart from those forces, the Gravity Force is also known and a common theory is required that will unify all these forces into one, so the force that held such a huge mass compact at the beginning can be discovered. Unfortunately, such theories have not been produced and only the mentioned four forces are known. There are Super Grand Unified Theories (SGUT) that suggest the existence of five and even more forces, but without sufficient clarification. Two of the known four forces, the gravitational and electromagnetic forces, exist in huge spaces and take longer routes, while the other two strong and weak forces exist in smaller spaces and along short routes. The strong force is holding protons and neutrons together, while the weak force is responsible for the slow nuclear processes of disintegration of atomic nucleus as a sort of variation of weak radioactive radiation and the like, which is responsible for the processes that enable combustion in the Sun, that is to say, in the stars, and with it beta radiation from the Sun.

Parallel to this examination of the beginning of the universe, scientists continue watching and analysing its expansion in order to learn about its form and the like. Einstein, through his General Theory of Relativity, envisaged that the universe should have expanded, while Edwin Hubble had already observed this and had concluded that it has already expanded. Alexander Friedman foresaw three possibilities for expansion. In two of them, the universe has expanded once forever in two different directions, while in the third possibility the expansion slows down, stops and contracts. This kind of universe is a so-called closed universe. The parameter that makes the situations different is the mass. Less mass and the universe goes on expanding, either as an ever-quickenening expansion or as a slowing expansion, a slowed-down expansion that lasts forever — the so-called flat universe as it is known today. More mass sees the universe collapse. In all cases, the problem is a lack of mass. Despite many theories and measurements, the mass that is needed for closing/ending the universe is very big, hence the expansion continues.

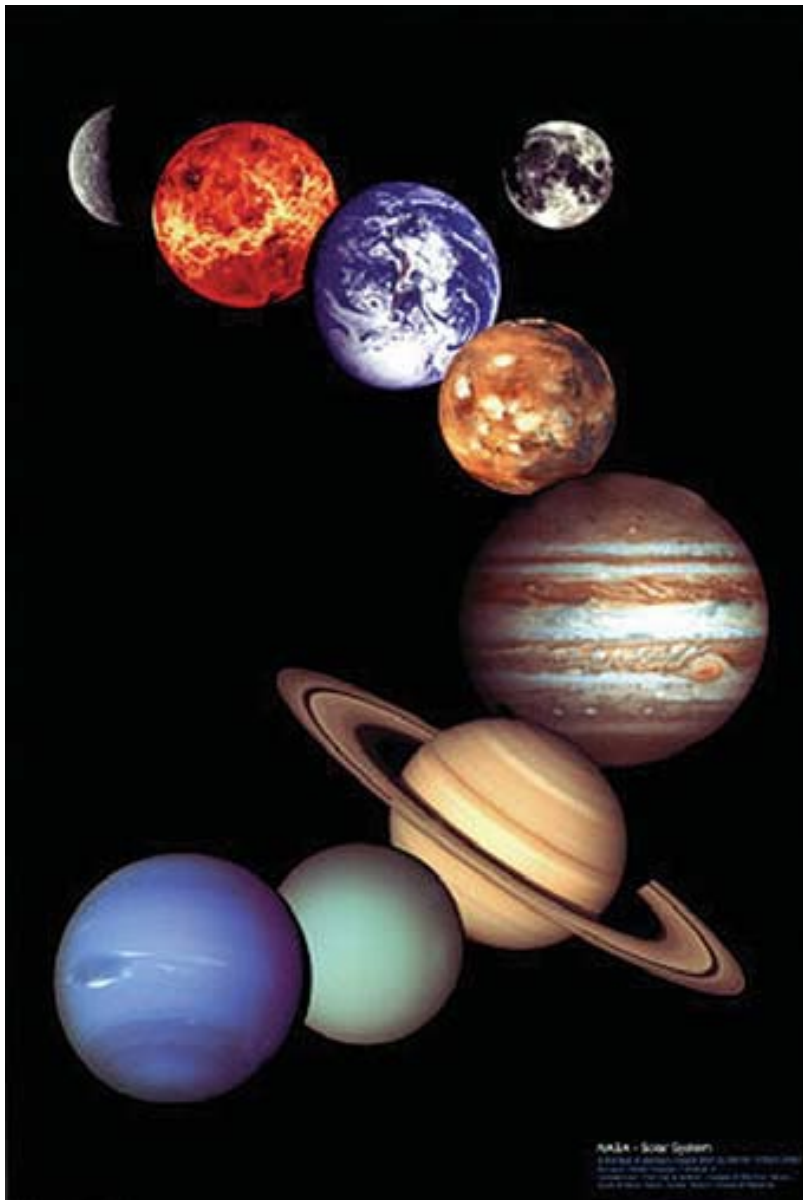
There are different theories but the one about neutrino particles, if proved correct, would answer this question about the universe. It is likely that neutrino particles can give an answer about the lost mass of the universe and from there further answers to many questions, such as the origin and continuity of the universe and its eventual end, may surface. By analysing the mineral lorandite, which can be found only in the Alsar mine in the Republic of Macedonia in sufficient quantities for research, we might find out how many neutrino particles pass through a certain time and space, and so obtain the necessary information to answer the big questions of interest. If studying neutrino particles does not give an answer, then it seems that there are other particles or theories to answer these questions. There are theories about the existence of so-called magnetic monopolies, which were demonstrated only once during the 1980s. Particles such as axons, gravitons, photons and winos are also mentioned, but without any substantial results. From a bio-energy perspective, lost mass should be hidden somewhere between particles and energies, in the form of shadow particles that act as a negotiator between particles and photons and particles and antiparticles. These shadow particles may not interact with particles

or photons directly, or necessarily have any contact (as with photons and ordinary matter), but rather act as some kind of messenger or negotiator of similar form. They are also present in other invisible parts of the universe, as a mediator between its components and our known universe, acting as a mediator or 'glue' to keep balance or to connect strings together.

In 1988, a group of physicists developed a rather stimulating idea about cosmic strings. They postulated that cosmic strings are not particles but rather long and rather weak remains of the big explosion. A string around 10 centimetres long has a mass equal to planet Earth, and it is also thought that some strings spread from one end of the universe to the other. They are one-dimensional creations, and it is good that they, as recompenses for the universe mass, can be observed. According to scientific statements, each end of the strings have

subatomic particles of a quarks type that are constituent parts of protons and neutrons, while they, the quark type particles, consist of other subatomic particles of a charm and resonance type. From a bio-energetic perspective, this very important discovery that the universe can be held compact with 'strings' gives an opportunity for theoretical explanation of a lot of things connected with the cosmos. On the basis of the charm-resonance system, the strings can be directed to certain areas and a desirable effect at macro and micro scale in the universe can be achieved. The strings can also serve as connectors of separate time and space segments of the cosmos, as well other dimensions of existence. In spite of the great scientific advancements in exploration of the universe, more and more scientists have recently considered that the universe looks like one big thought.

It has already been shown that the universe presents a space that is filled with a mass and various subatomic particles, radiations, energies and so on. Forces play an enormous role in all of this and, although invisible to us, they hold the universe compact. All these forces have come from one force, that is to say, from one place, and have created themselves from this force on the same principle. The heavenly bodies now radiate with their own forces, and hold themselves in order with their own interplay. Thus we can conclude that the universe is set and comes from one basic energy as a common denominator, creator and keeper of it. Whether it was created by somebody or it was created by itself, as pointed out by scientific circles, remains to be discovered and confirmed by science working alongside world religions. Since the universe is created by the same source, and by the same regulations and rules governing a macrocosm, then the rules (like circular movements or universal forces on a micro and macro scale) are universal. We were created as a microcosm by the same

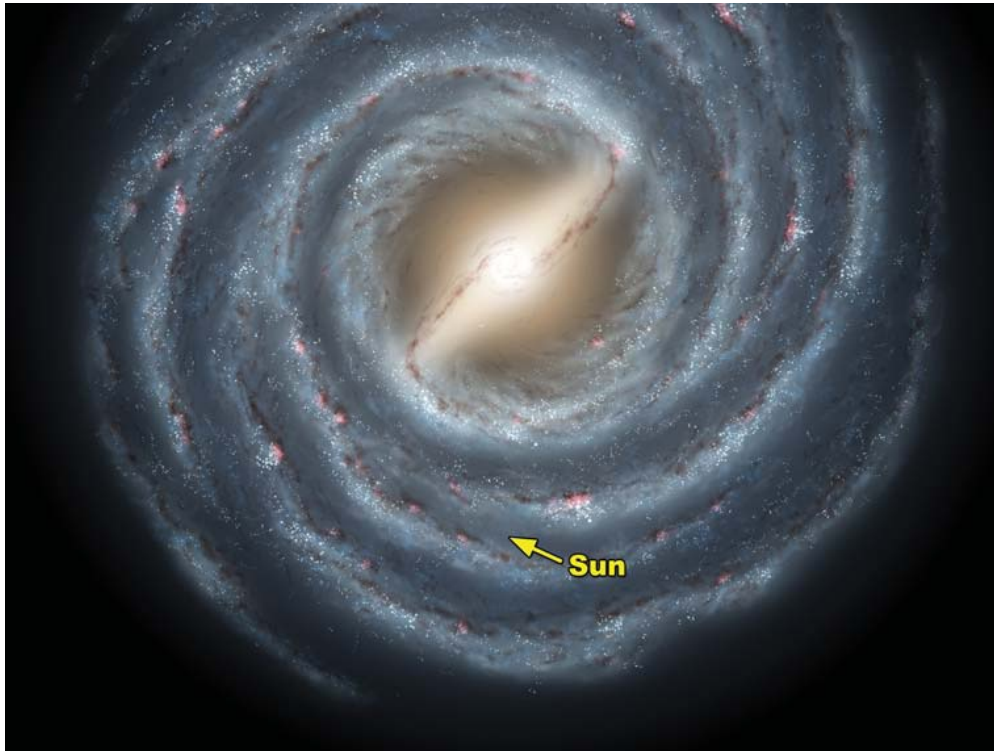


**A family portrait of our
solar system that shows
eight of the nine planets
(Pluto is missing)**

NASA

or similar principles, so we have come from the same source (energy) that seems to be our creator and our preserver. Having in mind this source's eternity, in comparison to our lifetime, it should be our beginning and our end: our alpha and our omega, symbolically. Essentially there is a life force or bio-energy in everything, which, as we saw, is its own creation from nothing, from quantum vacuum, that with quantum fluctuation — through virtual energy and virtual particles and later through waves and particles — creates and enables the existence of all creations in an energetic and material form, creating life in its many forms and dimensions, life to which we also belong.

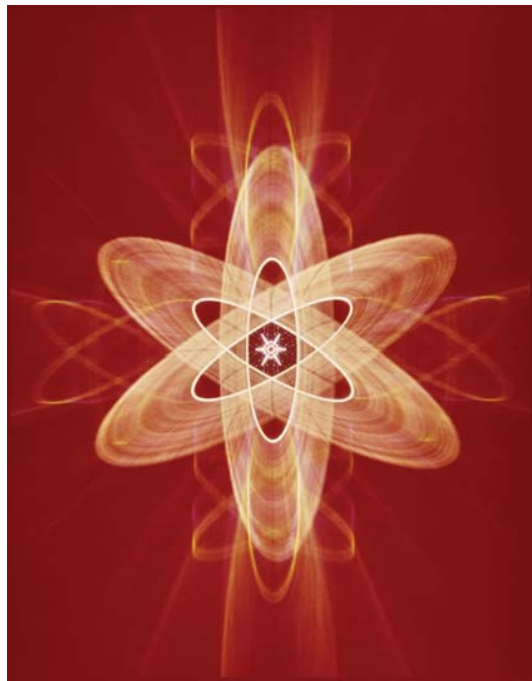
While studying nature, modern science studied the atom, which at this level of development we thought was the basic unit of all material elements. By studying further though, we discovered its other components and began to use them for our benefit; that is to say, by splitting the atom nucleus we discovered a huge energy for our benefit and, unfortunately, for



The Milky Way Galaxy, about 27,000 light years in size. The position of our Sun is marked in yellow.

NASA/JPL Caltech/R. Hurt (SSC/Caltech)

our misfortune. Here, it is very important to point out that Man knows that the atom is created by its more subtle parts, subatomic particles. As presented in Part 1, and as we know from science, the atom consists of an orbit, in which negatively charged electrons rotate, and an atomic nucleus, which contains the whole mass and density of the atom, from which the particularity of the atom emerges. In the atomic nucleus, there are neutrons and protons, which are complex particles that consist of smaller particles with their own structure. It is known that the atomic nucleus is not symmetrical in structure, and that the components of the subatomic particles function according to the same principle as the electrons in the atomic orbits: the electrons rotate in elliptic lines. These orbits are numbered one to eight, and are defined by a quantum number; depending on which orbit the electron rotates, it has a lesser or greater quantum energy. When crossing over from one orbit to another, an electron acquires or loses energy in a kind of photon package, that is to say, quantum energy. The electrons rotate around the atom's centre — the atomic nucleus. With their rotation, the atoms look like a mist or cloud of orbits and, depending on the motion speed of the electrons, the molecules, which are formed from two or more atoms, also have a misty appearance and a rough surface.



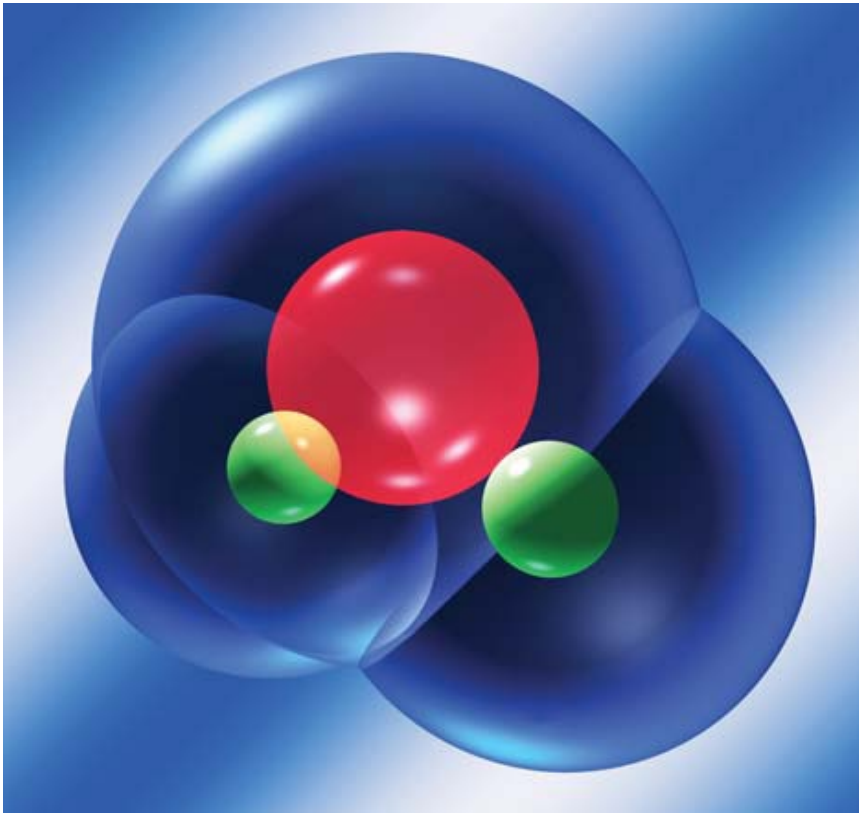
Atomic orbits.
PhotoLibrary/
George Post

The planets rotate around the Sun by the same principle, that is to say, the heavenly bodies rotate around their centres of rotation: the natural satellites around the planets, the planets around the Sun, the stars in their rotation around and forming galaxies, and so on. By the same principle, subatomic particles in the atomic nucleus also rotate around their centres in a positive or negative direction, and with a possible zero direction, that is to say, zero spin (spin-round rotation around the centre of rotation). Like electrons in the electronic field, they have different energy depending on whether they are moving closer or further away from the rotation centre. A positron, an antiparticle of an electron, has also been discovered in the nucleus. It is similar to an electron, except it has a bit of extra weight to keep its positive electric charge, the opposite of an electron.

From science, we know that the material world, both animate and inanimate, consists of atoms that, according to their fusion into more complex compounds (molecules), create animate and inanimate objects in our environment. We, as material beings, are composed of billions of atoms, molecules and compounds grouped in various organs with various densities, structures and functions. All our atoms function on the same principle. It is obvious that the whole known universe — macrocosm, together with us, the known microcosm — function almost on the same or similar principles and regulations. In fact, we have macrocosm — the universe — and microcosm — Man. In this context, we must mention that the structure of DNA, which is universally present everywhere throughout the living world, is created by an enormous number of atoms, and is a store of all the heredity information that controls an individual's development, looks like a double helix with a spiral form that, with all its atoms, resembles a spiral galaxy. In fact, with all the information DNA carries it could be the true book of life.

Just as galaxies contain forces that hold them compact as separate units, parts of a greater unity, so atoms, molecules and organs contain forces (energies) that hold the whole organism in a compact unity. So, not only do stars reflect and radiate, and thus interplay with all creations around them, connecting to each other and creating the form of the galaxy, but atoms and even subatomic particles also radiate and interplay, creating the objects to which they belong, especially in DNA.

Einstein was the first man to realise that there is no emptiness, there is no empty space: among other things, he realised that space can produce



A water molecule.

PhotoLibrary

energy. In this context, this identifies space with energy: the more space, the more energy, and so on, meaning that more space can create more energy, and so on without end. From a bio-energetic perspective, this is perhaps why dark energy is created and, in a way, tends to ruin space (the best example is a black hole) and to generate energy. If this energy exceeds the force of gravity, it would occupy zero space with infinitely strong energy (similar to the moment just before the Big Bang). This might be the initial energy needed to ignite another explosion similar to the known Big Bang, from maximum expansion of the universe to maximum contraction. This maximum expansion — which would later lead to maximum contraction and to space without space but with maximum energy — would automatically and immediately trigger a mechanism in the opposite (polarised) direction according to the already known principle of duality and polarity. Thus, the other polarity is inevitable: maximum expansion in maximum space expending maximum energy gathered at zero space would inevitably result in a large explosion similar to the Big

Bang. The energy needed to fire up this process is the one that was gathered in singularity at the principle of oscillation and maximum contraction. In this case, our universe would be a beginning, both old and new, of a previous universe, or it might be a future beginning of something else, a similar process or a beyond-horizon effect of universe expansion. When dark energy prevails and succeeds in contracting the universe to its maximum, a Big Bang happens and again, after a certain time, the previous cycle and principle of expansion might occur again, and all in that way infinitely.

According to quantum theory, an empty space cannot exist in reality, that is to say, empty space is not empty because it immediately creates an energy by itself so that the vacuum is filled with energy or virtual energy, temporary virtual particles that continually 'destroy/decay and recreate', creating a negative space that enables the universe to expand. It has been confirmed that a vacuum contains a form of energy, but the size of the energy is not known. The importance of this theory has been exploited lately, with a focus on the dark energy that creates the darkness of the universe.

On the basis of mathematical deductions by researchers such as Ashtekar at the Institute for Gravitational Physics and Geometry at Pennsylvania State University (USA) and two of his post doctorate colleagues that were published in *World Science* (May 14, 2006), it was concluded that there was a contraction of the universe before the Big Bang, while after the Big Bang the universe started to expand.

A three-dimensional presentation of DNA
IStockPhoto





Chapter 4.1

Almost all holy books, religions and theo-philosophical teachings have much the same view on the creation of the universe, namely, at the beginning there was nothing, there was emptiness; then there was vibration or sound. The Christian Bible tells us “... and there was Word; followed by light ... and be Light ... Heaven and Earth were created”. On Earth, we are told, plants and animals were created, gradually and systematically in a precise order from the base as the infrastructure to the top with humans at the apex, created as a masterpiece of one’s dreamed creation, as the beauty of creation.

From a bio-energetic perspective, we can say that the enormous desire (the love) to have something created made possible the creation of the Universe, including Heaven and Earth as we know them from teachings and from general knowledge. It began with vibration (emotion, word), followed by energetic and material things as an infrastructure to something bigger and greater — life, ‘and be life’. In that way, God created both Heaven and Earth, giving them life.

In all this, there is a precise and wisely created evolution, hence bio energy is all about creative evolution. Further, it is important to mention that, in creating all this, God has created space and time as well. In the Bible, and other holy

books in their own manner, it is stated: "In the Beginning", indicating the start of something, that is, something has already started and had a beginning (such as Time, for instance). The words at the beginning were about **time**, so time was created in the beginning as the start of something larger and, with that, space was created. Time and space go hand in hand as a duality: time is passive while **space** is active. Space spreads and moves, and is followed passively by time as though it is being dragged and incorporated into space. Time is actively moving, possibly in dimensions other than space. From our perspective, one needs a vehicle to travel through space, for time travel does not move you from the spot on which you are standing. Bio-energy itself, and this book, has absolutely no intention of debating evolutionist or creationistic views and arguments; on the contrary, the aim is to bring them together because they are both correct.

Modern science confirms that empty space cannot exist as an absolutely empty space, which means that absolutely empty space cannot exist. This empty space or vacuum creates, with quantum fluctuations, energy by itself, and this energy at the same time creates space and time, which are incomplete and undefined. Simply said, for an energy to exist, a space is needed in which that energy can exist, and with the formation of energy, there is already the beginning of something, that is to say, an origin, a start, and that means time. At the beginning, time and space are undefined and primal, but energy then transfers to a temporary virtual form, which is a foundation for more complex forms of energies, forces and waves; that is to say, waves and particles that turn from virtual particles to elemental (subatomic particles), which in turn create atoms and molecules with forces that rule between them. So, gradually, on the same principle, all creations in the universe are created.

Virtual gravitation/graviton, as a primeval particle, is a carrier of light and gravitation even at the beginning, which means that, in the very beginning, light is a constructive and basic structural form of all creations, a fundamental form and shape better explained in this context as an archaic light.

According to science, the light that we can see today was created almost 200 million years after the creation of the known universe therefore after the existing archaic light. Thus it follows that there was really something that was a creator of all creations, something that is, in fact, older than the day. The word 'day' symbolically corresponds to both today's time and today's light, which, as a form, is younger than the ancient-archaic light. This ancient light is the foundation of everything written in holy and ancient books, as well as the latest scientific discoveries that, in their own way, speak about the identification of religious (the oldest) with scientific teachings (the latest): that someone/somebody was older than light and time, that is to say, the day.

If there is duality, and there is, the same can be said for dark energy. So, after 200 million years of archaic light and darkness, in which there was a balance, or at least in which darkness prevailed (as can be seen from the latest picture from NASA, and the photo of the infant universe in the text), light now prevails

and this form of universe is 'winning' the battle, continuing to grow and prosper. This gives darkness enough space for balanced evolution as it waits for something new to be born, for example, a new universe, another Big Bang, or black holes in which there is dark energy and dark matter ('seen' by science only by their gravitational pull of surrounding objects). Darkness, with its gravitational pull and great destructive powers, could be playing an important role in balancing things universally, or it could be causing damage, as suggested by all religions and faiths, and recently proved by science on a macro level in the universe.

Thunderstorms produce antimatter, scientists find

Jan. 10, 2011

Courtesy of NASA

and World Science staff

Scientists using NASA's Fermi Gamma-ray Space Telescope have detected beams of antimatter, a rare and bizarre mirror-image form of ordinary matter, above thunderstorms on Earth.

The phenomenon has never been seen before, researchers say. Antimatter is practically nonexistent on Earth, where it can be found only as a result of certain exotic processes which create, then quickly destroy it.

"These signals are the first direct evidence that thunderstorms make antimatter particle beams," said Michael Briggs, a member of Fermi's Gamma-ray Burst Monitor team at the University of Alabama in Huntsville. He presented the findings Monday, during a news briefing at the American Astronomical Society meeting in Seattle.

Most of the particles that are the basic, subatomic building blocks of matter have an "antimatter" counterpart: a particle that is exactly alike, except that it has an opposite electrical charge. Charge comes in two forms, positive and negative, which attract each other. The antimatter particles detected in the new experiments are positrons, tiny carriers of positive charge. They are antimatter counterparts to electrons, the basic charge carriers within atoms, which have negative charge and are responsible for the currents in ordinary electrical circuits.

When an antimatter particle meets with its matter counterpart, they destroy each other in a flash of energy. Antimatter particles in the universe appear to be far outnumbered by ordinary matter particles, though scientists are unsure why.

Nonetheless, certain physical processes can create antimatter. In the case of

thunderstorms, scientists think the antimatter particles were formed in a terrestrial gamma-ray flash, a brief burst produced inside thunderstorms and shown to be associated with lightning. It is estimated that about 500 of these flashes occur daily worldwide, but most go undetected. The Fermi instrument is designed to monitor gamma rays, the highest-energy form of light. When antimatter striking Fermi collides with a particle of normal matter, both particles immediately are annihilated and transformed into gamma rays. Fermi's Gamma-ray Burst Monitor instrument has detected gamma rays with energies of 511,000 electron volts, a signal indicating an electron has met its antimatter counterpart, a positron.

The research team has identified 130 terrestrial gamma-ray flashes since Fermi's launch in 2008.

"In orbit for less than three years, the Fermi mission has proven to be an amazing tool to probe the universe. Now we learn that it can discover mysteries much, much closer to home," said Ilana Harrus, Fermi program scientist at NASA Headquarters in Washington. The spacecraft was located immediately above a thunderstorm for most of the observed flashes, but in four cases, storms were far from Fermi. In one case, the storm was even over the horizon, thus not directly detectable by Fermi, scientists said. "Even though Fermi couldn't see the storm, the spacecraft nevertheless was magnetically connected to it," said Joseph Dwyer at the Florida Institute of Technology in Melbourne, Fla. "The [flash] produced high-speed electrons and positrons, which then rode up Earth's magnetic field to strike the spacecraft."

Scientists long have suspected that the flashes arise from the strong electric fields near the tops of thunderstorms. Under the right conditions, they say, the field becomes strong enough that it drives an upward avalanche of electrons. Reaching speeds nearly as fast as light, the high energy electrons give off gamma rays when they're deflected by air molecules. Normally, these gamma rays are detected as a terrestrial gamma-ray flash. But the cascading electrons produce so many gamma rays that they blast electrons and positrons clear out of the atmosphere, scientists said. This happens when the gamma-ray energy transforms into a pair of particles: an electron and a positron. It's these particles that reach Fermi's orbit.

Scientists now think that all terrestrial gamma-ray flashes emit electron-positron beams. A paper on the findings has been accepted for publication in the journal Geophysical Research Letters. "We still have to figure out what is special about these storms and the precise role lightning plays," said Steven Cummer at Duke University.

It seems that religion and science share identical interpretations about the origin of the universe. In Christianity, Jesus Christ says, in a way, that 'he is older than the day'. As stated earlier, the present light and the creation of the mass of the known universe appeared 200–300 million years after the Big Bang. It is interesting that holy books have spoken about this for centuries, and science today confirms that, as well as many other things not relevant to this

publication, as fact. Modern science confirms the idea of self-creation of everything around us, of the universe, literally from nothing. In ancient times, people did not know about quantum fluctuation and quantum vacuum. Modern scientific thought has recently begun to talk about the possibility of getting energy from nothing through quantum fluctuation, and so on. That corresponds to vibration as fluctuation, mentioned in holy books, as for example, 'In the beginning was Word', that is to say, a vibration, a fluctuation, for which energy was needed. So, at the beginning there was an energy created from vacuum and this vacuum was without space or time; an energy created momentarily by the vacuum that results in beginning of 'something', that is, space and time as well as vibration and fluctuation ... and everything after that. Lately, it has also been known, thanks to science, that things can be arranged under certain conditions. Using nanotechnology, anything can be created at very low temperatures, when subatomic particles, atoms and molecules are inert, if there is a material for it. At the beginning, the universe was material for itself and its unique laboratory, and has only recently begun to 'cool'. Later, the creation would programme itself, and it would develop as if programmed on the same principles, by the same rules and regulations, using the same material but with possibility of its independent evolution. Again, it should be pointed out that this topic of discussion is not a discourse about who or what is right regarding the theories of creation and the evolution of Man, but is much wider: it concerns a primal foundation or multidimensional conscious intelligent creation of itself and all creations, in other words, a creation of all creations, with bio-energy as the basis.

Cheng Chin and ten other scientists described a new state of matter in research published in the scientific journal *Nature* (March 16, 2006). In the Rudolf Grimm Laboratory at the University of Innsbruck (Austria) they observed that, while cooling caesium atoms at -459.6°F in a state of vacuum, they formed a new state of matter when three atoms were brought together. This state was called Efimov's State, after Vitaly Efimov, a Russian scientist who predicted it in 1970. The arrangement of the three atoms is similar to a symbol of rings used by the noble Borromeo family in medieval Milan, Italy. When one of the atoms was separated, the other two followed; if one was removed, all three fell, and so on. According to the scientists, it was a remarkable discovery because it leads to creating a new state of matter by re-arranging atoms and the like; that is to say, it leads to a better understanding of the relations in the quantum world and brings new evidence, as Chin said, about "the magic connected with the number three".

We have still not cleared up the standards that work in the universe, in space and time; events that can take an instant for us can take an eternity for some other thing, and vice versa, or something that is infinite for us can be finite for someone else or something else. Hence, we cannot be certain what or how these things are possible, because science has proven that some things that were mysteries yesterday are scientifically understood today and used for the good of humankind in general. Even DNA looks like a well-timed manipulative program. From a bio-energetic perspective, DNA would be a program that, at

certain moments of development, activates new genes that carry information about another development or a development into another direction at a certain age. This can be achieved by the radiation and the information that it carries. Namely, at maximum radiation of photons, other genes, are activated, and they gradually increase their radiation power through the spin of subatomic particles and the charm–resonance system, so that further development of the individual, that is the whole organism, or another organ or part of the body is achieved.

In a way, our body is programmed to be a biological arranger of molecules. From the food we eat, we create a certain structure of bones, nerves, muscles, blood and so on. Animals that eat, for example, only grass also develop their definite structure of muscles, bones, blood, nerves and so on. This is a sort of molecule rearrangement with a previous programming. Whether somebody (another intelligence, in another form and shape or like ourselves) created the universe and, with it, ourselves, or we were created by the universe, which is like a great thought — a separate multidimensional intelligence by itself — it follows that we are similar to the universe, created by millions of subatoms, atoms and molecules, an **intelligent creation**; that is to say, a microcosm in the true sense of the word. This question, which can be answered by the science of bioenergy, as a symbiosis of spiritual and physical knowledge of humankind, without any taboo subjects, was presented previously. As far as creations are concerned, our creator would in turn have its own creator and so on without end. Everything, however, ends with the base — bio-energy itself — the creation of all creations: ‘and God created man in his own image’.

In 1967, Charles T. Caskey, Richard E. Marshall and Marshall W. Nirenberg showed that identical forms of a reporter RNA (ribonucleic acid), a simpler form than DNA, are used to produce an amino acid that is found in bacteria, guinea pigs and amphibia, suggesting that the genetic code is a universal system used by all animate forms of existence. As discussed, Fritz-Albert Popp in cooperation with Chinese scientists studied light emission of soy and cucumber cells, and concluded that DNA can react as a laser source of light, emitting photon sparkles of weak strength, so-called **bio-photons**. The rays (wave lengths) of these bio-photons were in the infrared spectrum, while cells in development had greater strength than those just created, as did cells when they were dying, demonstrating an intensive photon emission



Chapter 4.2

In the late-twentieth century, Edward P. Tryon suggested that the universe was created by nothing. Professor of Physics at Hunter College in Manhattan (USA), Tyrone specialised in theoretical quark models, theoretical general relativity, and cosmology. In 1973 he proposed that the universe is a large-scale vacuum energy fluctuation. The theory was developed on the basis of quantum mechanics and, according to it, an admissible fluctuation of quantum vacuum produced and created the derived energy, a theory that has become more and more acceptable. Another theory gaining popularity is the suggested cosmologic model of an Inflationary universe, first proposed by Guth in 1980 and mentioned previously.

The 'nothing' at the beginning, according to old records of many religions and theo-philosophic teachings, was followed by the 'word'. From a present scientific perspective, that 'word' corresponds to vibration or fluctuation, in other words, quantum fluctuation. It means fluctuation or waving, vibrating, moving from a zero position as a solid basis for creating 'something from nothing': vibration is, in fact, a word and energy while empty space creates energy.

Quantum mechanics teaches that, no matter where or what size, there is no empty space. Space creates an energy by fluctuation of quantum vacuum, that energy later being a foundation for creating particles and antiparticles, waves and so on. They in turn create atoms and molecules, and so the matter known to and visible to us at our present level of understanding and with our present technology. All this is supported by holy books and teachings, and the material presented in this text: it is bioenergy, as a primeval matter, that is actually its

own creator, the creation of itself and by itself, and thus later on the creation of all creations, which means omnipotence, transcendentalism, omnipresence, creativity, intelligence.

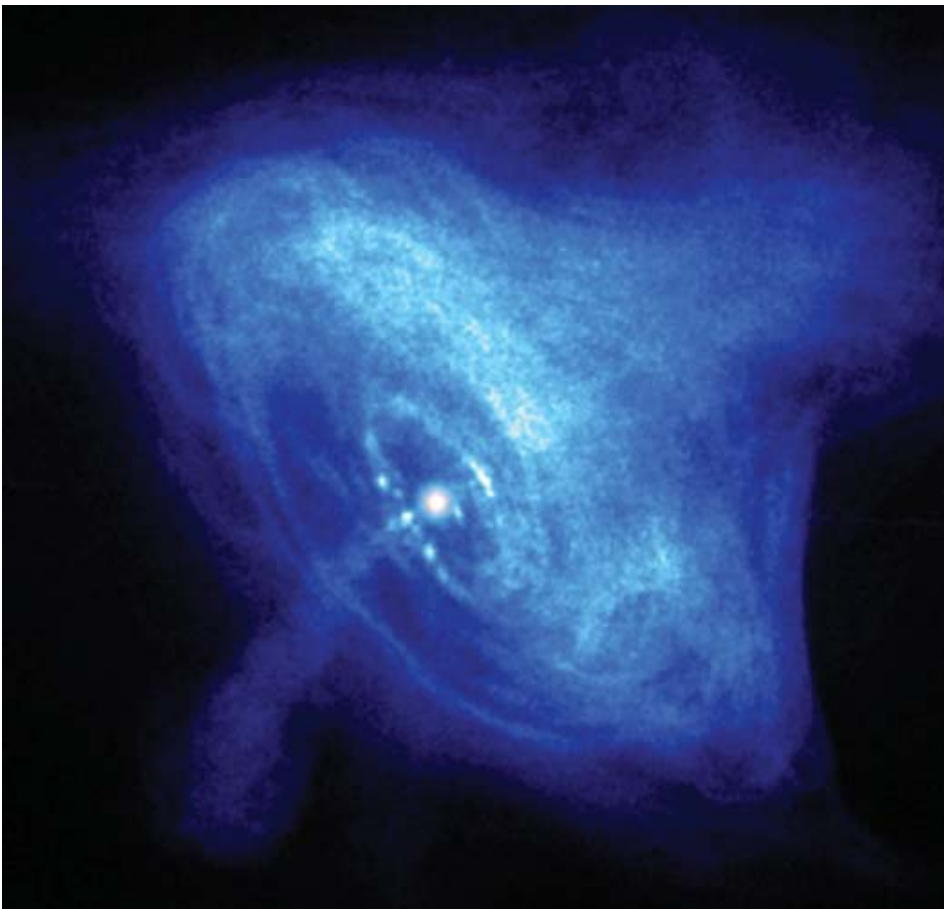
This proves that science confirms what religion teaches, and vice versa. Everything was created by nothing, by an energy and vibration (word), the word as vibration corresponding to quantum fluctuation. If both science and religion agree that, at the beginning, there was nothing, then there was the word and everything was created by it, the question has to be asked: why has nobody acknowledged, or at least mentioned, that faiths have for centuries known what modern science is now discovering?

As is evident from scientific studies, a black hole appears most often where a destroyed star, so to say, old or the like, or a supernova, was and it is thought that it is the result of a burned star, a huge mass, gravitation and the like, of the star as a prolapse in space and time. That is, the known rules and regulations learned from physics and what is known from other sciences do not apply to black holes. At the very edges of a black hole, there is neither time nor space (at least in the form and shape we know them); all is reduced to singularity, almost as at the beginning. Black holes, with their enormous gravitational force, can simply suck in the remains of stars or the stars themselves without leaving any trace, or at least a trace visible on any of the devices used for detecting gravitational pull, the various ultra colours, electromagnetic radiations, sounds and so on. It remains for science to explain whether black holes, either temporary or permanent, by regulation or by accident, serve to recycle damaged material, from which an energy is obtained for its purpose, an energy that can be returned or projected to another place for some other needs, are a channel for connecting with other parallel universes, or something else.

Looking from one or other aspect, we can conclude that nothing in the universe or in us is as uncontrollable as it looks. It seems as if an invisible force has created all this, and controls or has it programmed. It seems that this power is also in ourselves: if we could only perceive it in the right way, everything would be clearer than it is now. From a bio-energetic perspective, black holes are, among other things, 'balancers' of the universe between the matter and energy, or in other words, between the time and space, separating light from darkness and time from space, 'digesting and re-cycling the rest' and balancing, re-vitalising and re-arranging the space/'emptiness' where they are occurring. And according to memorised bio-holographic moments of the already non-existing time-space segments of that part of the universe, those that do not allow 'emptiness' and are populated with dark energy, other realms or virtual worlds can be conceived. We can say that our universe looks like a huge black hole in relation to itself, and in relation to something else that is invisible to us now, such as a bright universe, its creator and the like. Recently, a huge black hole was discovered in our Milky Way, which, according to the latest measurements, is several light years across. Previously, it was impossible to have this registered because of the limited abilities of our available technology.

In this context, we should mention the discovery by a group of scientists from Cambridge University (UK) of HEO450-2958. According to the findings of Martin G. Haehnelt, published in 2005 in the *Monthly Notices of the Royal Astronomical Society*, this enigmatic object, which weighs more than 400 million suns and is about three billion light years from us, is a huge black hole that was created after a collision of galaxies. We can only imagine this colossal event; however, from a bio-energetic perspective, we can observe and turn our attention to something else; namely, the size and strength of the force that moves these galaxies and that holds the black hole and the universe in the same time — keeping the universe compact — as if nothing is happening. The grandeur of the force that controls such spectacular events are overwhelming, hindering chaos on an astronomical scale.

As mentioned earlier, modern science confirms that space cannot survive empty, which means that absolute vacuum cannot exist. A quantum vacuum with quantum fluctuation creates an energy by itself and later



Supernova, neutron star.

NASA

this energy creates everything else from 'nothing' by quantum fluctuation. During this process, with the activity of virtual particles, 'negative space' is created, which is the main reason for expansion of the universe. Dark energy works contrary to this, trying to negate this activity and turn it to its benefit; that is to say, dark energy works contrary to the expansion of universe. However, the maximums of these two activities are avoided by a constant: the universe, after all, expands evenly, in other words, smoothly, in favour of virtual particles and virtual energy.

In earlier explanations, we mentioned the possible existence of a 'bright universe'. That does not literally mean a parallel world to our universe, but it means the possible existence of a light instead of a dark universe, in a sense a possible parallel existence of both as real multidimensional possibilities or separate virtual realities of material reality as our universe and the like, and the recently discussed and prone to arguments enigmatic dark energy (see photo on page 108) that appears at the very beginning of the universe, and is an opposite 'pole' of gravitation; in other words, gravitons as elementary subatomic particles. Dark energy apparently causes contraction, a collapse of space and time, that is to say, the universe, contrary to gravitation. If this force is greater than the force of gravitation, there is a feeling that there may be a maximum contraction of space and time, or vice versa. Our universe is racing today, expanding at such an enormous speed it is thought that soon the universe will not be able to follow the galaxies at its edge, those galaxies moving apart and running beyond the horizon. From a bio-energetic perspective, and also from the perspective of our reality, our universe (in a well-sustained theory) has a chance, in another dimension or world as well as in our reality, of getting smaller by gradual expansion; in other words, the distance between galaxies would enlarge so that they would become isolated, leaving only space, which, by contracting (similar to black holes, with their emerging assistance or on a similar principle), would collapse to maximum at one point before starting to again expand, just like at the beginning of our reality with a Big Bang. If that happens, or has happened previously, then all information is repeating (because energy in the form of bio-energy, as bio-holograms of events and memories, cannot be destroyed), then it may well be that we are in some déjà vu reality where time is still, not moving: we are in the frame of our new reality waiting for something to happen to break the cycle and to start a new beginning and a new world order.

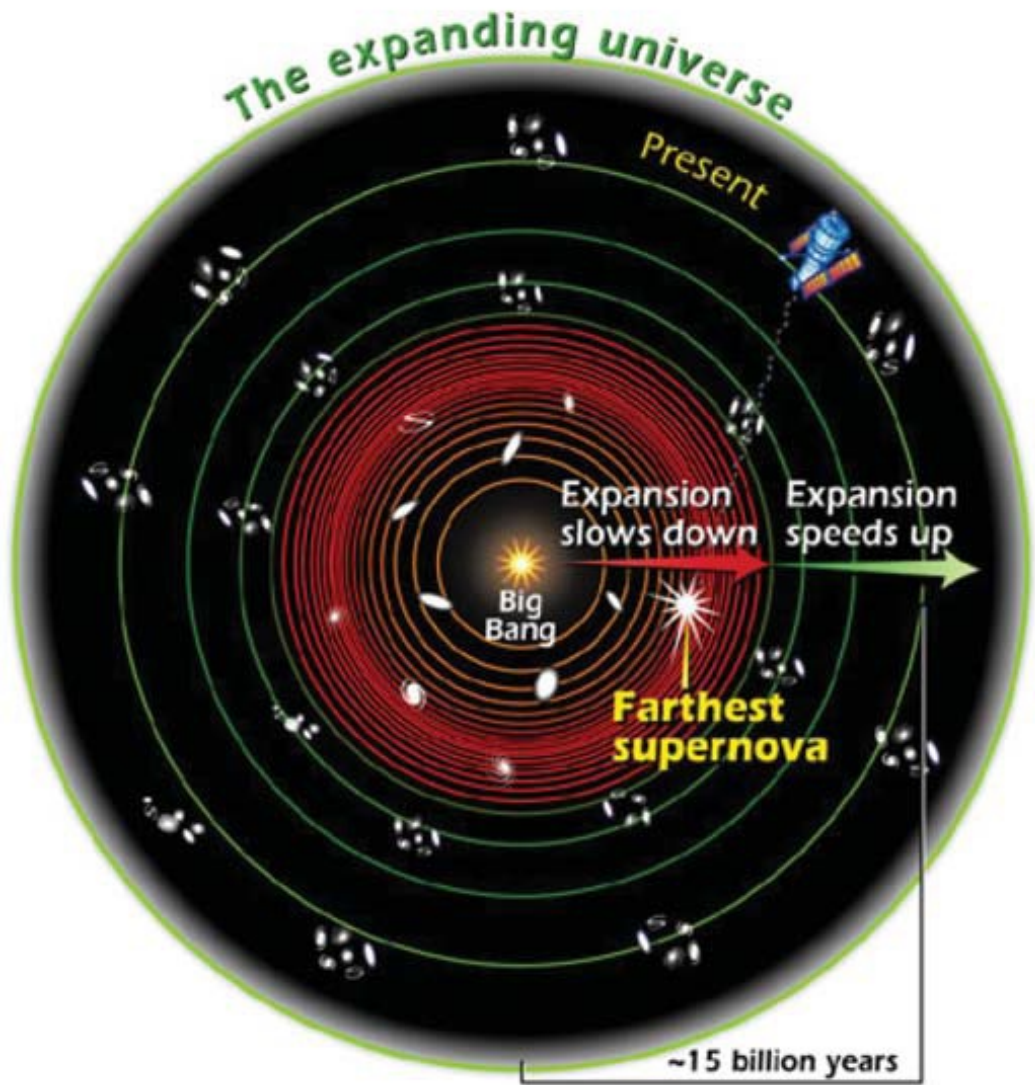
Several physicists say they have done calculations suggesting that, before the birth of our universe, which is expanding, there existed an earlier universe that was shrinking. The mathematical study by Ashtekar and colleagues (cited previously) states that this has already happened and that, in fact, is possible if

we follow the order and evolution of matter from the smallest to the largest. This universe is expected, after its creation some 14 billion years ago, to evolve into a more perfect universe, a more perfect system; in other words, as a more perfect one to exist naturally, compensating one system for another. Together with two colleagues, he proved mathematically that, before our Big Bang, there was a contraction of the universe that later began to expand by quantum fluctuation and, with the Big Bang, the present degree of evolution has been reached. The findings appear in the current issue of the research journal *Physical Review Letters* (May, 2006).

Showing that all this is possible are experiments that prove that, when one system of disorder is replaced by another, the old one is eliminated and the new system takes over, establishing a new order as a new beginning. More precisely, as Sebastian F. Brandt at the University of Washington, St Louis (USA) wrote, when disorder has been established, the chaos that was present before disappears and a new order is established. The results of the work of Brandt and his colleagues, who say they found this surprising mechanism at work, were published in *Physical Review Letters* (January, 2006).

This supports the possible existence of the phenomena stated in this text, as well as other hypotheses presented from a bio-energetic perspective. No matter how unusual they seem in this place and time, how miniature or grandiose they are from our perspective and our perception of understanding and observing, science has already started to enter the secrets and mysteries of the unknown, and to throw more realistic light and give a more realistic picture about the truthfulness of these phenomena, making them real in this life of ours. The act of questioning the existence of such phenomena mysteriously gives the answer to the ever-pending question 'Why!?:' to achieve perfection.

The research relating to Dark Stars led by Paolo Gondolo at the University of Utah (USA), mentioned previously, suggests the possible existence of a Dark Universe or Dark World. In such a universe there is an absence of light, invisible to us but possible and real, that will affect religious teachings and therefore our future understanding. So, again, religions, theo-philosophical teachings and faiths that have this concept at the centre of their beliefs and teachings have been proven by science. It is therefore of great importance to initiate friendly dialogue, with respect and compassion, between religion and science on matters of mutual interest. Both are here on Earth to serve humankind, they are part of us, like me and you, so now is the time for change, for a better tomorrow for everyone on this still beautiful planet Earth, our home.



Diagrammatic image of a universe 15 billion years after it began with a Big Bang.

NASA



Chapter 4.3

Holy books such as the Christian Bible, all of them including their verbal heritage, In, and from their own perspective, say that the world was created with/ in time, e.g. in six days, with the seventh day being a day of rest. Holy records report that the creation of the world was done step by step but, according to our current knowledge, in a very sophisticated way. The first days saw the creation of the base for development of our known world, in other words, the sky and the earth. Then came water, followed, hierarchically, by plants, lower and higher organisms, mammals and, finally the culmination, the creation and evolution of Man.

Records show that evolution continued until a conscious being, human i.e. Humankind was created through **creative evolution**, whose actions can affect nature and adapt it to its needs and, as an adaptable being, can adjust and progress depending on the things already realised in the environment. Whether Man was created by something else such as a creator, or comes from the creative evolution of the universe as such, is a matter for unified religious and scientific thought to find, employing detailed analyses and studies in a friendly dialogue full of tolerance and mutual understanding, full of love. If we were created by somebody, no matter how (by materialisation of the imagined, by molecule arrangements and energised, or by genetic engineering, and so on), our creator must have had its own creator, and so on, without end. Whatever scenario, answers are within the competence of united religious and

scientific thought as the highest authority. From the bio-energy perspective, whoever our creator was, alien or not, they must have their own creator and so on and so forth. Bio-energy is teaching and is unifying the search for our creator and at the same time the creator of all creation. Bio-energy would like to see science and religion, which already have common attitudes, come together and develop each other in their respective domains of interest, now professionally and scientifically postulated, and, on the basis of that, expand their thoughts to possible limits. Learning everything is impossible, since every new thing is an immediate creator of another new thing, but in partnership, religion and science could find common ground for mutual understanding and cooperation, learning almost everything, including the secrets and mysteries of Man and the universe, for the good of all.

The teaching that the world was created in six days suggests the existence of time. Time is important and it is Man's final destination. The notion of time also denotes the notion of timely, which implies the existence of the notion of life and life span. Within our world are various organisms whose life span can be measured in hours, days, months and so on. According to our standards, because we are not familiar with others at this level of development, the life span of these organisms is an instant, a minute for us when compared to our own life span. But for the organisms, it is their life and within that period they grow, reproduce, live their life and die. For them it is a life cycle, for us it is an instant. As mentioned earlier, in order to examine the interference of electrons, scientists of the University of Lund created laser pulses just over one femtosecond, or a millionth of a billionth of a second, apart. Each pulse itself was measured to last a mere one-fifth of a femtosecond. This time period is to one second, as one second is to 150 million years.

If we take into consideration that quantum energy, as well as a laser beam, can carry information as bio-holograms in three-dimensional form (much more than radio waves), then this can be considered a life cycle of a beam, with the information it carries in time and space, in pure energetic form similar to electromagnetic waves we get through telescopes as we discover the universe from its earliest stages. These waves are nothing but the same beams transporting the memory imprint of time and space of our known universe to us, even though they are almost 14 billion years old.

From subatomic physics, it is known that the life span of most subatomic particles is measured in parts of a second. The world of energy has its own life span. Like all creations, it can be an instant or an eternity for us, or vice versa; just as in our life span, in comparison to something unknown to us, something can last only an instant, but for the unknown it can be an eternity, and vice versa. From this aspect and in this context, the notion of days in the creation of the world might mean a day for something but a billion years for us. The image of the universe that is a one-trillionth part of a second old (see photo in the text) obviously shows what a huge creation and what a short time interval we are talking about, from which we can only come nearer to imagining what it is

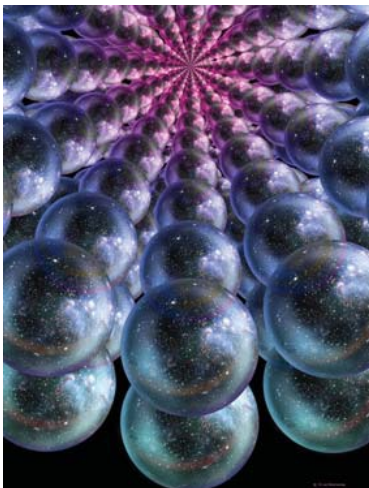
all about even if we cannot, at this stage of evolution, understand the complexity in time and space in a conceivable way.

According to Ashteker and his team, time and space have a discretely atomic structure but they are not rectilinear. They follow a twisted geometry, contrary to the opinion of Einstein and others, according to whom time is not rectilinear but has its own geometry. This means that, around the time of the Big Bang (or, more precisely, just before the Big Bang) it makes quantum bounces, mathematically proving that our universe started with quantum fluctuation and went on expanding after the previous universe has reached its maximum contraction. Other scientists, among them cosmologist Paul Steinhardt of Princeton University, confirmed in *Physical Review Letters* (May, 2006) that this is possible. These discoveries about time and space open new views and new avenues of study, including the possibility of manipulating both time and space, as mentioned earlier.

Human life, in a general sense of understanding, is too short to be able to answer all the possible questions about what has been mentioned, and science is relatively young to find evidence and give concrete answers to everything. On the other hand, there are old scripts and holy books that have existed for a long period of time. A cooperative approach by religion and science will enable progress in all spheres of people's life, that is to say, of humankind globally. Thus, humans as complete physical and spiritual beings would be studied: research that is highly important for our future and our place in the universe to which we have always belonged.

Having in mind the progress of science, especially subatomic physics and quantum mechanics, we can conclude that we are surrounded by a quantum energetic and electromagnetic radiation — QEEMR, in other words, bio-energy. This radiation is present in the universe, among us and within us. From the very beginning, virtual energy materialises, creating virtual particles and, later, subatomic particles, followed by atoms and then molecules, and so on; in this way, creating the organic and inorganic world, that is to say, animated and inanimate matter, which, as we know, gradually evolves. The subatomic particles that created the world are carriers of electrical charge in their mass. They are created by the energy that is a part of them and that holds them together. From physics we know that the quant as a photon, in certain conditions, reacts as an energy/wave or as a particle. It is also known that the electron can behave both as a particle and a wave. This illustrates an inconsistency of particles, that is to say, the energies, which gives transcendence, transferring from one form to another under varied conditions. This confirms the possibility of the materialisation of energetic matters, and vice versa. Materialisation as a phenomenon is the essential matter of religious teachings. As is theoretically obvious from quantum physics, this phenomenon is scientifically possible. Therefore, close cooperation of science with united religious thought is highly justified for our benefit, for our moral/ ethic standards and norms and similar.

Clinton J. Davisson proved that, under certain conditions, electrons can be made to react (or diffract) as if they were waves or particles. In this way Davisson confirms the transcendence, the omnipotence, of bio-energy. Diffraction is a characteristic effect when a wave is incident upon an aperture or a grating, and is closely associated with the meaning of wave motion itself. In the nineteenth century, diffraction was well-established for light and for ripples on the surfaces of fluids. In 1927, while working for Bell Labs, Davisson and fellow researcher Lester Germer performed an experiment showing that electrons were diffracted at the surface of a crystal of nickel. This celebrated Davisson-Germer experiment confirmed the de Broglie hypothesis (mentioned earlier) that particles of matter have a wave-like nature, which is a central tenet of quantum mechanics. In particular, their observation of diffraction allowed the first measurement



Left A quantum model for a parallel or bubble universe(s).

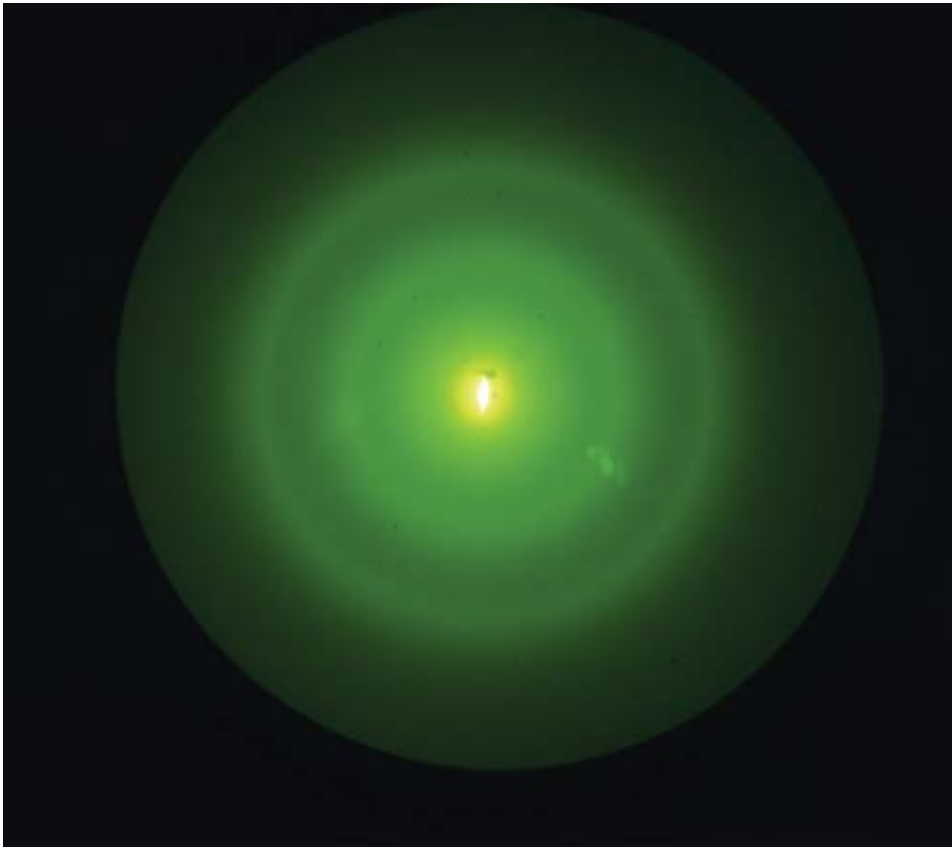


Above Bubble universe(s)/multi-universe(s) with 'wormholes'.

PhotoLibrary/Detlev Van Ravensway

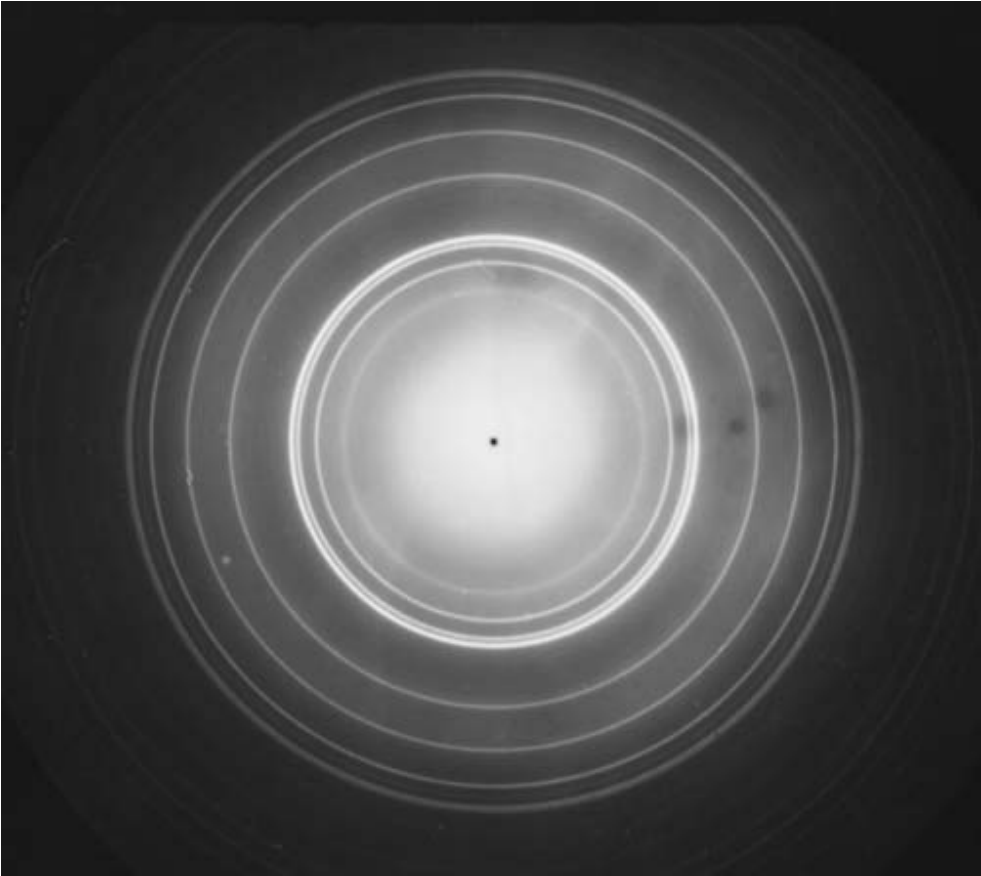
of a wavelength for electrons. The measured wavelength agreed well with de Broglie's equation $\lambda = h / p$, where h is Planck's constant and p is the electron's momentum. Davisson won the 1937 Nobel Prize in Physics for his discovery of electron diffraction, sharing the award with George Paget Thomson, who independently discovered electron diffraction at about the same time. In

honour of Davisson and his work, an impact crater on the moon, the Davisson Crater, was named after him.



**Electron
diffraction
pattern.**

PhotoLibrary/
Andrew Lambert
Photography



**Electron
diffraction of
beryllium.**

PhotoLibrary /
Omikron

As is known from medicine, our thoughts, learning, that is to say, memory, are stored in our body, in the first place in our CNS in polypeptide chains; and, if necessary, they can be taken out of the CNS in the same form they were stored. Everyday learning of new events is a materialisation of what has already been seen and sensed by an energetic form through our senses, by a material form in our body, with its recall in a conceivable energetic form possible as it is needed. Unfortunately, we still do not understand the mechanism by which we learn and then recall memorised events, but it is thought that the process is realised

in an electrical or chemical way, or both. In Part 1, we saw that light produces biochemical reactions both in nature and in our organism: for instance, in photosynthesis of plants, during which light is used to produce the oxygen we breathe and by breathing we survive; and in the use of blue light during kernicterus therapy on the newborn, which causes oxidation and the elimination of detrimental bilirubin from the CNS. These reactions, and others, are followed by a releasing or absorbing of energy. Bearing in mind the duality of the wave and the particle (quantum and electron are the most important in these reactions), and the scientific knowledge that light can effuse electrons from compounds, it can be reasonably assumed that light can, and is, directly affecting (with some invisibility to us in shadow particles, and so on) material objects, creating and initiating varied biochemical reactions that could cause organic changes: for example, by effusing material such as the electron and its transfer to energy and the like. Later on, this energy can turn into a particle again, and so on.

In a simple way, this shows how a process such as learning can come into existence by merely receiving energy through our senses. This also shows how something energetic, non-material, that excites our senses (which detect and receive light, sound, touch and other similar signals such as taste and smell; and which detect energy of any kind from the outer world) can create material changes (as materialisation is required for learning). It can also change material already created in ourselves, first of all in our CNS, and later or simultaneously, in our body systems, so that events can be recalled later in an energetic form (as an energy from something already materialised, with eventually effusing matters out of the compounds, for example, electrons and energy, and vice versa) and, according to it, we can act (on the basis of remembering what we have learnt) without any 'visible' mechanical-material manipulations, as Man demands in almost all processes. This is a simple example that shows we must not reduce everything to materiality and scientific dogma and that, if there is no visible materiality there is no proof for anything, when we know that basic matters essential for the existence of Man and the universe are immaterial-energetic. Therefore, humanity should overcome the outdated stereotypes that are being taught and advance further in evolution towards a balance of spiritual and material knowledge. The time and possibilities that are on the side of science and religion enable that.

As is known, our thought, memories, impressions and the like are a kind of 'energy' that can be materialised and later recalled in the same form as it was memorised. In fact, everything is a kind of energy in 'crystallised' or materialised form and shape, with its regulations and principles, that creatively evolves, creating more and more new forms of its existence in an energetic and/or material form. In this way, DNA is being built, created, supplemented by learning and materialisation, giving direction to the life cycle, as a singular book of life (in case somebody decodes it completely, materially and energetically!) of individuals, that is to be completed throughout one's life and later transferred to heredity as a traced path prone to changes and supplements to achieve a more perfect and better development. This happens

with almost everything; just as with the smallest elements, so it is with the universe, as a macrocosm and Man as a microcosm. In this context, it is important to mention that most of our body space, as well as space in all material worlds, belong to emptiness rather than to strong material structures and solid constituents. This is because there is distance and space between electrons in atoms, and space in the atomic nucleus between and inside subatomic particles, which, as a pure energy, is exploiting huge space, keeping in mind the size of the subatomic particles. The same is occurring all around us. So we are living and we are in some kind of 'energetic emptiness' that is keeping our universal shape due to energy and energetic forces. Knowing this, the energetic world and manifestations deserve more respect, for the benefit of all humankind.

If we pay more attention to our environment, we can see a *mélange* of sounds, colours, forms, motions or stillness, and so on, as a reflection of the existing animate and inanimate nature, and an obvious difference can be noticed among them. If we engage a little bit deeper into the essence of animate and inanimate matter, we shall see that, although there are obvious differences on the macro plane, these differences on the micro plane disappear so that at one moment their almost identical structure is reached. Namely, it can be noticed that both the animate and inanimate nature are built by molecules, that is to say, by atoms that differ in their appearance and the way they are connected. If we go even deeper to a subatomic level, these differences disappear even more. One particle, as well as all the others, is built from the same material but under different conditions and by different rules and regulations. If their polarity is changed by just adding or taking out one electron at the very beginning, then different forms of matter are achieved at the macro level from the same compounds. Or, the same compounds, under different conditions, look differently on the macro plane. Science has observed this, and it is used for obtaining various qualities of substance, whether organic or inorganic, or even from the same elements.

For example, if we take iodine, carbon, iron or mercury, or phosphorus and others, they look different under different conditions. Mercury and iodine have a quality to sublime and to change from a solid state to a gaseous state. So it is with phosphorus, which self-ignites at a higher temperature. The same happens with iron. If it is heated, it changes colour and later becomes liquid. When it is cooled to absolute zero, it changes to a transparent material, a glass metal that has its application, but essentially it is still iron. Carbon, under various conditions, can appear as coal or as diamond or other forms. In fact, both coal and diamond are carbon or C-4.

These examples from our everyday life refer to inanimate matter. Within the topic of discussion in this publication emerges a fundamental question that spontaneously gives an answer: if the same regulations work for both matters, animate and inanimate (organic and inorganic) under almost identical conditions, why can the same things not happen to organic or more complex forms of inorganic nature? In other words, why can the state of the organism

not change while the information about it remains basically unchanged? Simply said: why can the essential appearance of the existential form of the material thing, which can be seen and sensed by our cognitive receptors, also not exist in another form (visible or invisible) with all its previous characteristics as an identity in itself, now in energetic form but the same and in the same 'reality'?! Something similar happens with particles when they transfer from particles to waves, and vice versa.

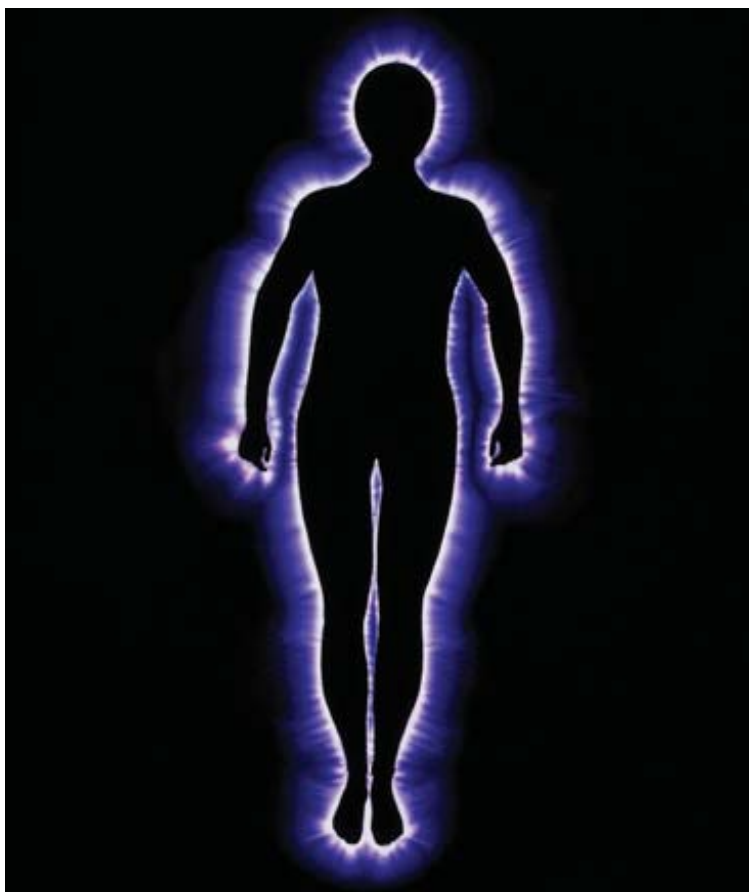
With the probable dual possibility of subatomic particles to transfer from particles to energy, and vice versa, this is possible, so more liberal attitudes should be taken while we draw conclusions about phenomena in ourselves, around us and in the universe. What is needed is a consequent revision of some conclusions, norms, regulations, even laws from the past, looking from a bio-energetic perspective that reflects our energetic component, that is to say, our spirituality. That is why a universal science that will unite physical with spiritual knowledge for the common benefit is required, because it is the so-called para-phenomena from the so-called para-psychology domain that are cultivated by religions, that are the foundation of our and everyone's existence and they, as we can see, are possible and most (if not all) of them are simply natural occurrences. As is obvious, every substance consists of atoms and subatomic particles. These particles are either electrically charged or neutral, and rotate around the centres of their rotation with a spin that can be +, - or 0.

As is known from science, and presented in Part 1, each movement of an electrically charged particle is followed by the existence of electromagnetic radiation; in other words, the existence of an electromagnetic field around the object in motion. By the constant transfer of electrons in their orbits or in the orbits of other elements, especially by metabolic processes in organisms, there is continuous absorption and releasing of energy; that is to say, there is a constant absorption and radiation of quantum energy and electromagnetic radiation. With the energetic radiation from the nuclei, during their natural disintegration, there will be an energetic radiation around them that confirms the existence of such a field around objects. We know that DNA radiates weak laser light and that cells emit weak electromagnetic waves, and that information can be stored in a polypeptide chain in the CNS and in the body and recalled when necessary. We know that there is a continuous releasing of electromagnetic radiation from cells and the existence of an electromagnetic field, and, as mentioned, that there is a parallel existence of continual photon radiation by DNA in the CNS and the body. Adding to this the fact that photons carry more information than electromagnetic waves and that photon radiation enables the existence of three-dimensional images, it is certain that our body gives its own information about itself, in itself and around itself, with the existence of QEEMR and a field of QEEMF around itself, in space and time, as a three-dimensional bio-holographic form created by the very existence of laser radiation from the body. The transcendence of energy and with that the possibility of building varied forms in an energetic or material form and the existence of the BEF around us, and hence around everything, then the possibility that this field can be in three-dimensional bio-holographic form and

the possibility of carrying the whole information about oneself in the photonic radiation of the cells and DNA in our body, allows us to postulate the energetic standards about it and further exploit it. This means an examination and a scientific interpretation, a scientific approach towards Man and all around us as complete energetic material creations, and Man as a complete energetic material, that is to say, as a spiritual, physical, selfconscious and creative, reasonable being. Thus public attention should be focused on exploiting our spiritual and material needs, as well as exploiting similar bio-energetic phenomena around us, from a scientific perspective, by a science such as the science of bio-energy, in which unified religions and similar organisations, groups and individuals, and science, with its all different branches, would participate for the benefit of all.

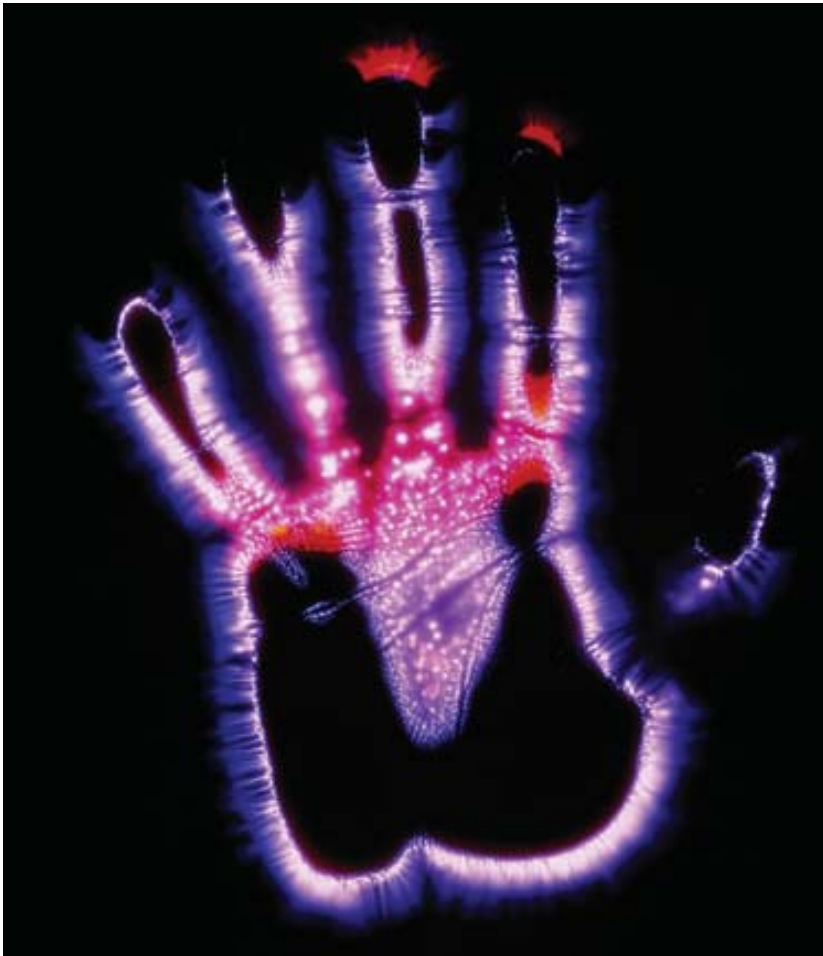
In 1947, Denis Gabor, a physicist from the United Kingdom, discovered the holographic method of photographs with which theoretically postulated issues in this text can be clarified. By projecting parts of an object, Gabor got a complete image in three-dimensional form of the whole object from which the parts were taken. This could not be executed without a laser, that is to say, laser light, so that after the discovery of laser and laser light this has become a reality. Nearly 30 years later, in 1971, Gabor was awarded the Nobel Prize for Physics, for his discovery of how to produce three-dimensional (3D) holographic photographs using laser light. In relation to this, it is important to point out that, in this way, it is possible to project three-dimensional DNA information of humans. In fact, all configurations in time and space of people, with all the information about themselves, can be projected as a bio-hologram, remembering that DNA radiates laser light and thus enables this, and that all life on this planet has DNA or RNA (which is DNA-messenger, a simpler almost identical form of DNA).

The phantom-leg phenomenon occurs after a person's leg or arm is amputated, by surgery or accidentally. The person may later feel pain and other sensations where the extremity used to be, with no physical evidence to explain the sensations. With the information that has been presented previously, it becomes clearer and more likely that they come from the bio holographic memory that is projected into the space of the now amputated non-existent limb as memorised by the organism in the DNA of the CNS and in its healthy cells around the amputated extremitas, in which the limb as a whole was memorised. An obvious possible explanation for this phenomenon is that the limb was amputated but the DNA was not. In other words, the DNA remains intact, with all its information, both hereditary and acquired. The DNA feels the amputated limb as whole, and various sensations, including unbearable pain, are felt at the place of the now amputated limb, because its memory before amputation is still alive. This and similar phenomena in a wider sense, including the phenomenon of individuals who insist on having a limb amputated voluntarily, a phenomenon not yet explained by medicine, can be scientifically confirmed and further examined and solved on the basis of what is presented here.



A Kirlian photograph of a man.

PhotoLibrary



A Kirlian photograph of a man's palm.

PhotoLibrary

A 'bio-hologram of a phantom leg' can be produced in a strong Electromagnetic field with the help of laser light. The same technology will enable a projection of our 'energetic body'. Using a nomenclature, this phenomenon would be a 'phantom-energetic man', in other words, an energetic form of an individual. (The word 'ghost' refers to something else and is connected with non-existent diseased man, as described shortly.) Further, this gives an opportunity to explore the energetic phenomena, or in other words, an opportunity for a future communication with this energetic world that is of exceptional importance for humankind. Religion and science should be the two fundamental participants in studying these and similar phenomena in order to eliminate any chance of manipulating the achieved knowledge and

possibilities in all spheres by those with malicious intentions. This is not taboo, but is simply shedding some light on the invisible, on the already present, and removing any mystifications, delusions and prohibitions. Since religions have had a sovereign right in this domain, everything should be done in cooperation with them. And that will be a significant contribution to this cooperation. In this way, studying the past and working in the present, we can create our future in the most adequate and right way.

It is a fact that we live in a time when, looking back and reading about events of the past, we can say and be happy that, with an advance in scientific thought, standards of living and communications are higher on most parts of the planet (even though there is quite a lot of crime, war and other miserable situations), and with it life is better than it was in the past. Yet in spite of this advance, it is clear that Man's consciousness has not advanced much. Although it is obvious that people have suffered losses and have had lots of delusions, above all as a result of material motives such as money, power and the like, unfortunately they still continue to think the same way even today. By fighting for money, power, fame and so on, people destroy and are ruthlessly destroying everything, including human lives, causing wars on a large scale, bringing the survival of the planet into question, which is a great pity. A great discrepancy has been created between the advance of science and technology, that is to say, materialism, and spirituality, with materialism gaining an advantage. This means that a balanced, objective and complete self-consciousness and self-awakening by politicians as well as religious and scientific authorities is urgently needed. This is necessary because they are also people who share the same living conditions with the rest of the population, who have the same spiritual and material needs and desires, and nobody wants a devastated planet.

In this sense, it would be sheer madness if we simply reject some good, human, noble things that have occurred repeatedly for ages and have been confirmed by lots of people all over the world regardless of their race, religion, nation and the like, without trying to prove them even superficially and continuing to deny them. Although we are talking about some phenomena that violate the balance in our environment, we should still pay it attention, rather than ignore them. For example, we know that before a disaster, animals react differently from normal, getting ready for a catastrophe. This can be exploited and used for our benefit. Simply said, just because we can not hear some ultra-sounds or can not see some infra- or ultra-colours does not mean they do not exist. It means that our senses are not capable at this level of evolution to detect them and, on that basis, we cannot react adequately. It means that some animals can detect things people cannot, and that is why they react adequately. If a person cannot see an aura field, it does not mean that the field does not exist; it may be visible to other people. If some people constantly describe aura fields, in various time and space segments of our existence, it means that they have something more developed (or undeveloped) than we have, in other words, something that we do not have. We know that holy people displayed on the icons in various

churches are presented with an energetic field around their heads and bodies, which symbolises their aura, that is to



A Kirlian photograph of a leaf.

PhotoLibrary



A Kirlian photograph of a drain lid.

PhotoLibrary

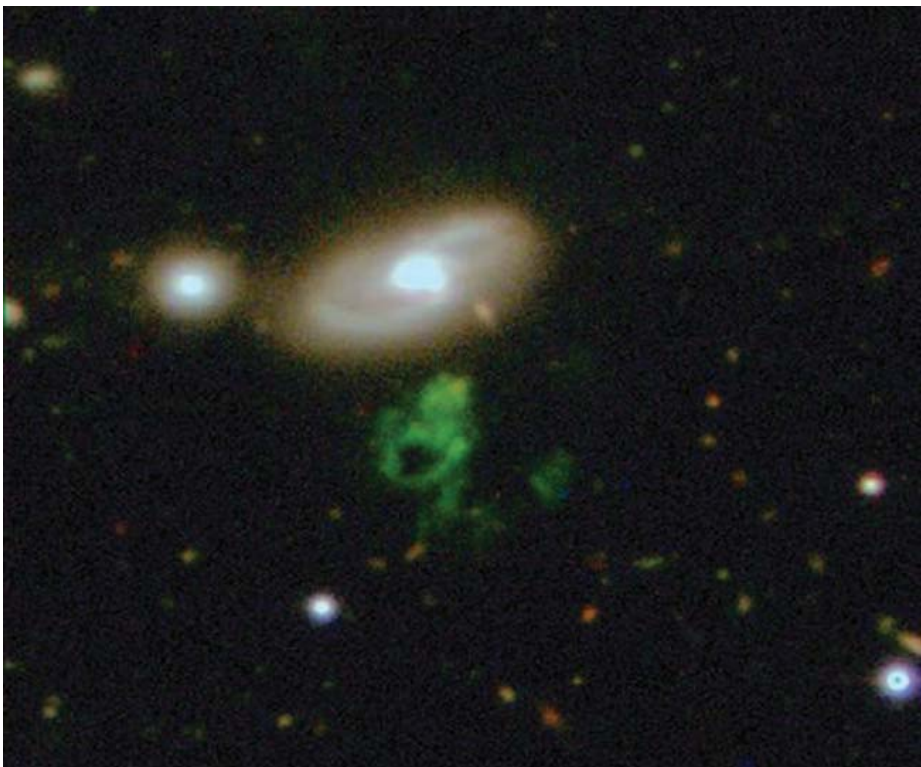
say, their bio-energy field-BEF. Their aura is more expressive and expansive than the aura of ordinary people. It means that something, in this case their BEF, had constantly existed around them and it made them more special. Somebody saw that and depicted it on the icons. Nothing new will be discovered if the BEF is scientifically proved, but at the current level of evolution of our scientific consciousness its existence can be exploited and used for our benefit. By developing an awareness of it, immense space will be opened for developing the spiritual and scientific field of humankind.

There are an enormous number of radiations in nature, and science has tried and managed to use some of them, even though we do not see them, for our benefit: for example, electromagnetic radiations in informatics, communications, and in households; and radioactivity and X-rays in medicine and other fields. If there are so many radiations that we cannot detect but that are widely used in our everyday life, then there is at least the possibility of the existence of some more organised forms of radiation in three-dimensional form as bio-holograms. If these three-dimensional phenomena, known as ghosts, shadows and the like, are described or sensed by lots of people, as they have been throughout the evolution of humankind, and almost all religions in the world speak about them, then they should be exploited. We should not be afraid of ourselves, nor of our free development without any taboo topics. Apparently there is something wrong with ethics and moral standards regarding this, and that is why these things should be re-examined and standardised. Through their teachings and preachings, religions have offered good direction in this sense. We should respect this more and try to balance it.

In the text, there is a photo that shows what is called a 'Cosmic Ghost', which surprised a Dutch amateur astronomer, Hanny van Arkel, who found the object in archived images of the night sky as a volunteer with GalaxyZoo.org, a project that allows members of the public to take part in astronomy research. Researchers are calling this strange new class of astronomical object, the gaseous glob in the middle of the photo, simply a Voorwerp (Dutch for 'object'). Scientists from Yale and Oxford universities believe it consists of hot gas at a temperature of about 10,000°C. What lights it up is a mystery, since it appears to contain no stars. Researchers are guessing that the galaxy above it, IC 2497, was much brighter long ago. The illumination of the Voorwerp would then be due to light leftover from that distant past that is only just reaching the Voorwerp. In other words, unusual ghostly phenomena or 'mysteries' are not only a problem on Earth but they also exist throughout the universe, so the sooner appropriate action is taken regarding this, the better for all everywhere, even in space (where, incidentally, lots of strange 'stories' are being reported by astronomers...). That way people will put a stop once and for all to every attempt to manipulate information by anyone anywhere, for whatever kind of interest and reason.

Human beings are under constant pressure of prohibitions made by systems, at every step, wherever one may look. Although these pressures are intended mainly for good, the main goal of this topic is different to what one might expect. We know that this world is changing, generations are changing and, mainly because of information technology, people are becoming smart faster, and old systems regarding particular issues are not relevant to the new generations. Yet, something, which could become a big problem one day, is missing as even now it is obvious that some situations and inappropriate behaviour by youngsters tend in this direction. For example, one with a good education may believe that they are clever enough to behave in a way despite prohibitions coming from their opinion about themselves, the group, family or

community to which they belong. What we are already witnessing is the individual's anger regarding certain prohibitions: as a society we are experiencing the accumulation of that anger towards the system, which invariably carries with it devastating consequences. This is a serious question, but it is only one part of the larger mosaic of life. Prohibitions that exist need to be discussed, talked through and resolved (not necessarily changed) slowly and carefully. Rather than acting out bad behaviour in the streets, dialogue allows words to be readapted so as to motivate people and make them proud of their good behaviour. That in turn enters one's consciousness and subconsciousness, impacting on their future development.



'Cosmic Ghost'.

Dan Smith, Peter Herbert, Matt Jarvis/Isaac Newton Group of Telescopes (ING)

There is a curious question that burdens legislators: how people would develop if there were stimulations instead of prohibitions, or at least a modest balance between them? Prohibitions should be applied only in exceptionally difficult cases in order to differentiate what is more important, at least at the beginning. Since ancient times, religions have brought a code of conduct, moral values and standards of ethics that are all very important. There are prohibitions also, such as do not steal, lie or kill and from a bio-energetic perspective these are justified. Holy books also speak about stimulations of acceptable practices, not only about prohibitions against unacceptable ones. Examples include 'love your God', 'respect your neighbour', 'help a stranger in need', 'offer bread to one who throws a stone at you', and so on. This basically points out the altruistic nature of religion and Man, which is the main characteristic of all messiahs and holy people. Today, science is on the right track by acknowledging, proving and applying that tenet, shown especially by the discovery of the human gene for altruism.

Depending on whether daily routines are positive or negative, the BEF of an individual changes in a positive or a negative direction, leading consequently to a harmonious or a disharmonious life. The BEF increases when we do good things and lessens when we do bad things; in a way, it self-absorbs. The rotation, the spin of the subatomic particles in +, - or 0 direction makes this possible, energy being increased, lost or neutralised. Sooner or later, because of energetic imbalance, our health is affected, and mental, psychosomatic, immune, or purely physical illnesses, can appear. Because of everyday prohibitions at every step, we feel inferior at the very beginning, as if we are not 'mature' enough to develop independently. In this way, the BEF also suffers and it cannot freely develop in the right direction. Thus development is blocked and, by creating such energetic blocks, possibilities and preconditions for impaired development are created, as is a breeding ground for the development of psychosomatic states and illnesses. This is not dissimilar to child abuse: a child's development will be different and (in most cases) tend towards revenge, crime and so on rather than their opposite. Inappropriate behaviour is affecting the energetic state and the intellectual state as well, and in the absence of equilibrium, correct development is compromised.

Energetic blocks, or the absence of an energy balance, affects the right and harmonious development of an individual at a conscious/unconscious level and at a spiritual level. As a long-term consequence, the community and entire planet will be affected. Illusion will take place instead of reality. We bear witness to this with constant false information and propaganda about something, as, for example, what happens during and after world wars, or more recent events. Gradually, as the false statement is repeated millions of times, it becomes accepted as truth, with terrible consequences for everyone on the planet. From our everyday life, we can compare an individual who develops harmoniously with care, mercy, love and stimulation to an individual who develops with prohibitions in a backward and violent environment, without adequate care, love, gentleness and stimulation.

In *Proceedings of the National Academy of Science* (November 21, 2005), scientists at the University of Wisconsin in Madison (USA) published results of their study on the brain chemistry of children who grew up with or without their parents' love and care. The researchers concluded that child neglect changes the chemistry of the brain. Eighteen subjects aged four were examined and the level of oxytocin and vasopressin, the so-called social hormones, in the blood were measured. It was found that levels of these hormones were significantly lowered in children who grew up without the love and care of their parents. Even when hugged or caressed, levels of these hormones in neglected children did not increase.

Children who grew up in families with care and love had a high level of these hormones. During hugging and caressing, levels of these hormones in the blood increased.

We are living in a 3D Universe, however our restricted knowledge and handicap to note/ sense the other possible dimensions are obvious so researchers are trying to prove that indeed we are living in multiverse as we mentioned in this publication.

Scientists testing theory that there are multiple universes

Aug. 4, 2011

*Courtesy of University College London
and World Science staff*

A group of physicists claims to be conducting the first test of a theory that holds our universe is just one of many.

Their results? Possible evidence in support of the theory has been found, but more data remains to be examined, they report.

They're looking for disk-like patterns in the cosmic microwave background radiation—a type of heat radiation that permeates the skies and is believed to be left over from the Big Bang, an explosive event that gave birth to our universe. These patterns could provide tell-tale evidence of collisions between other universes and our own, the researchers explain.

*The research is described in papers published in the journals *Physical Review Let-**

ters and *Physical Review D*.

An initial proposal describing the idea behind such tests was published in the latter journal in 2007. Many modern theories of fundamental physics predict that our universe is in a bubble, and that there are other bubbles containing other universes, perhaps with different laws of nature. The search for disk-like patterns is based on the notion that universes might knock together. These bumps could then leave round “bruises” on the surface of each colliding universe, like two pears that have been smacked together. These marks would also be reflected in the microwave background—specifically, in the maps that astronomers have put together showing temperature variations in this radiation at different points across the sky.

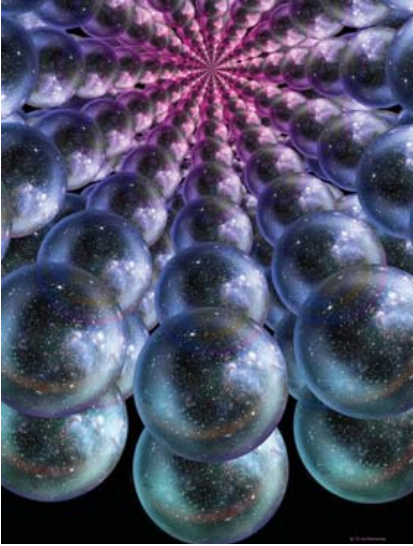
One problem was that before now, it was hard to search for the disk-like patterns because they could be anywhere in the sky—and have any size. Physicists also needed to be able to test whether any patterns they detected were really the result of collisions or just flukes in the data. “It’s a very hard statistical and computational problem,” said Hiranya Peiris of University College London, co-author of the research. “But that’s what pricked my curiosity.”

Peiris and colleagues from Imperial College London and the Perimeter Institute for Theoretical Physics in Waterloo, Ontario, ran simulations of what the sky would look like with and without collisions. The findings also provided an upper limit on how many such bubble collision signatures there could be, the scientists said.

“The work represents an opportunity to test a theory that is truly mind-blowing: that we exist within a vast multiverse, where other universes are constantly popping into existence,” said University College London doctoral student Stephen Feeney, a collaborator on the research. Feeney created a formula to determine whether a model with or without collisions would better fit a wealth of cosmic microwave background data from NASA’s Wilkinson Microwave Anisotropy Probe spacecraft.

One of dilemmas facing physicists is that humans are very good at noticing patterns that may be there only by coincidence. But the new formula is designed to be very hard to fool, imposing very strict rules on whether the data fits a pattern or whether the pattern is down to chance. “It’s all too easy to over-interpret interesting patterns in random data, like the ‘face on Mars’ that, when viewed more closely, turned out to just a normal mountain,” noted Imperial College’s Daniel Mortlock, a co-author of the research.

The search based on data from the NASA probe has turned up four candidate areas in the microwave background that could be the signature of a collision, according to the researchers. But noise in the data makes a definitive conclusion impossible, they added; new data currently coming in from the European Space Agency’s Planck satellite should help solve the puzzle



Left A quantum model for a parallel or bubble universe(s).



Above Bubble universe(s)/multi-universe(s) with 'wormholes'.

PhotoLibrary/Detlev Van Ravenswa



Chapter 4.4

It is generally known that at the basis of everything, as a foundation of our existence, there is a duality, such as good and bad, black and white, male and female, and so on. This duality is not only at the foundation of everything but it is also in the relationships with ourselves and with each other, causing good or bad relations and outcomes, making lovers, friends or enemies. Duality also affects our decisions to be positive or negative, good or bad, thereby creating our lives, destinies, and also affecting others' lives and destinies, and so making an impact on our surroundings and the environment. It is a cornerstone of the existence of humankind, especially when the protagonists in a relationship are very influential people and the lives of many hang in the balance of their decisions. Since it is so essential, we should 'dive' into this topic directly, even though it is a little spooky and spinechilling.

The relation between bad and good feelings and actions and the effect on the BEF, that is to say, its increase or decrease, is mentioned here and in Part 1. Under the influence of various bio-energetic interactions and reactions with the environment, subatomic particles in the atoms of human cells obtain a sort of resonant vibration in oscillatory activity with the targeted source (consciously, unconsciously or intentionally), and in that way they are communicating on that level and in that manner, affecting and being affected by the environment. Depending on the ability, situation or concurrence/non-concurrence of the bio-energetic spectrums and the like, subatomic particles begin to rotate with a spin (rotation of a particle around the centre of rotation), which can be positive (+), or negative (opposite direction of positive spin (-)),

or neutral (\emptyset , with zero spin). Therefore, they will increase the energetic level of an individual with positive spin or decrease it with negative spin (with the absorption of energy), at which self-absorption at an energetic and later psychosomatic and physical level might occur.

As has been demonstrated here, we learn and memorise our experiences throughout our life and then recall these memories in the nature of thoughts, which is then followed by emotional reactions, feelings and so on, in the same form and nature as they were when they were memorised. Our thoughts, impressions and memories are nothing but energy, radiation — bio-energy — with its own quality and quantity in a + or – direction. For example, if we transmit malice to another person, this is projected in time and space and, according to a subatomic charm characteristic and an electromagnetic characteristic, these impulses can reach the person at whom they are aimed, depending on the negative resonant characteristics, so that the person can feel the consequences consciously or the impulses can work unconsciously. The transmitters, the ones who transmit bad thoughts and desires, activate their organism with these thoughts and their subatomic particles rotate in a negative spin. By rotating in a negative direction, energy is spent and wasted, and the whole energetic radiation of the transmitters could reduce to the maximum, if they continually send impulses full of malice. After a longer or shorter period of time, depending on an individual's physical and psychosomatic condition, a complete selfabsorption of his or her bio-energy can occur. This would happen if the receiver of the bad impulses achieves a resonance at a subatomic level with the transmitter, an event that depends on many factors: the receiver would begin to resound in a negative direction, and self-absorb and fall behind in every sense. On the other hand, the impulses may not disturb the receiver at all if he or she does not possess such charm and resonance characteristics, or possesses them partially at various degrees, and if he or she is in a good spiritual and physical condition, and practises a relaxing meditative exercise.

People who project bad thoughts over a longer period of time can turn to automatism and find themselves constantly in such a state. They can project that routine into their memory system and their DNA, which means the same impulses are working their living imprint on their character, so that it can become a future hereditary characteristic to be carried on to the following generations, who are not guilty of that at all. The identity and nature of QEEMR makes this possible, bearing in mind that DNA radiates and receives QEEMR; in other words, it is a sort of receiver-transmitter of this kind of radiation. Intentionally thinking bad or evil thoughts for a longer period of time, with malicious intent towards something or somebody, with its automatism, begins to attract what is being spent. Thus, in a way, individuals can become generators of bad thoughts and actually radiate what they are. There are people who radiate what they are, and who feed on or attract what they spend; in other words, they become what they need and what they want. After a certain period of time, such people tend to see this kind of behaviour as normal and this can lead to a situation where they feed on evil deeds and gain an

immense pleasure from them. People who deliberately perform evil deeds feel pleasure at the same time that is equal to the evil deed. This is rather negative and unwanted, not only for the individuals themselves but also for their environment, because they have already radiated what they became and thus, in a way, affect the environment as well the people around them with menace, bad deeds, initiating and causing temptations and the like, which can be felt consciously or can work at a subconscious level of communication in relationships and understandings. People who exist in a kind of negativeness for an extended period of time enclose themselves in a vicious circle from which they can hardly find an exit because, sooner or later, the negativity and self-absorbance at an energetic level expresses itself at a physical level, from where, later, they are getting the energy that is needed for what they are doing as well for their basic metabolism or for living. This creates energetic blocks, firstly on isolated areas and later on the whole system, damaging it functionally, and later at the psychosomatic level, damaging some organs, systems and the whole body generally, usually without obvious causes. Repenting intentional evil deeds and asking for forgiveness, in other words, repentance and forgiveness as widely applied by religions, can turn the whole process in the opposite direction (akin to the repolarisation of the process which stops almost everything). By forgiving the deed and consigning it to oblivion as a bad experience that should not be repeated or practised again, might be the only way to turn the spin of the particles in the opposite direction almost immediately. That will cause repolarisation of the cells in the CNS and the organism so that it will become the source and the beginning, returning to normality and spiritual relief, to a calmness. It will also bring about 'regenerative' effects on the whole body, both on the spiritual and physical levels.

From a bio-energetic aspect, the mechanism behind the power of forgiveness is in the process of facing the reality about the situation, temptation or sin and, at the same time, raising self-awareness in the person about the situation he or she created. With this opening what is pre-programmed in our bio-energetic system — our soul and DNA, the truth, as at the final judgement — presents us with free judgement of ourselves (in the last hours of life all the above occurs during what is called the preagonal period) and then by others, so in that manner forgiveness and the asking and giving of forgiveness turns the oscillations of subatomic particles in the opposite direction, and another kind of energy, a positive one, is emitted.

Going into details is not the aim of this book, what is explained is from a bio-energy point of view without reference to the religious, that is strictly the domain of religion. It is imperative that science and religion start a friendly dialogue with each other on every issue concerning human wellbeing in order that we are no longer enemies among ourselves. Rather, we should be brothers and sisters among so many unknown negative 'strangers' in the form of energies and other subenergies, dimensions and similar forms of existence! There are enough enemies, so it is time to make friends and the best way is to start with each other, with ourselves, isn't it?

A study carried out by Tania Singer and colleagues of University College of London (UK) and reported in *Nature* and *World Science* (January 18, 2006) concluded that both men and women felt pleasure when someone whom they did not like suffered. A team of scientists led by Dominique de Quervain of University Zurich (Switzerland) had achieved similar results two years earlier, and reported their findings in *Science* (August 30, 2004).

From everyday experience we know that there are cases in which people we have not met before radiate negativity, so that we do not feel comfortable in their presence. In contrast, there are people whom we have not met before but when we do, we feel as though they are pretty close to us; we feel happy, comfortable in their presence in spite of their physical appearance or the like. For example, we can be sympathetic or unsympathetic to their physical appearance, yet we feel a closeness, friendship, or similar in their presence, so physical appearance has nothing to do with the emotional feelings generated in us. In another way, there is love at first sight; it can happen in a similar manner by subconscious bio-energetic interactions even though the couple have never met before.

It seems that, while these bio-energetic interactions are a part of attracting and initiating interactions directly on the energetic level, they can also cause physical reactions that target particular centres in the brain and even initiate secretion of substances such as dopamine and other neurotransmitters that preserve our emotions and feelings long after the initial energetic 'contact'. These directly target and initiate some centres in the brain that are responsible for our emotions and feelings, with some substances secreted from our CNS being responsible for our mood, and therefore our behaviour, over a long period of time.

Since thought is energy, thinking pleasant things or visualising pleasant things can initiate and bring about a pleasant state that engulfs our whole body, and the release of a great quantity of energy has self-regulating and self-healing effects on us. Such a result can also be attributed to various prayers, meditations and other relaxing practices and exercises.

Very recently, physicists say they have made an object move just by watching it. This is inspiring them to an even bolder project — putting a small, ordinary object in two places at once, according to Keith Schwab of Cornell University, Ithaca (USA), one of the researchers. This discovery and other related experiments published in *World Science* (September 25, 2005) are shifting science towards religion and related phenomena, putting prayer and meditation on top of the agenda.

Self-absorption at the energetic and spiritual plane, and later on the physical level, can happen when negativity is practised over a period of time. The example of a person whose thoughts were bad and who fell into a closed circle of hopelessness shows how bad this kind of practice is, and that it

should be avoided regardless of whether it is modish, prestigious, trendy or is done as a result of various interests, malice or something else. Negative thinking and acting is bad for both the person who practises it and the person at whom it is directed. At the same time, it is also bad for the environment, the surroundings in which the person lives, and later it can be bad for his or her heredity. In the case of negative behaviour there are no winners; all participants, unfortunately even those who are the least guilty, become losers in a way. Practising a good lifestyle, as well as mind-body spiritual meditation/prayer and diet exercises, while seeking forgiveness and sometimes medical advice, is the right way to break this circle and to get back to a normal and healthy lifestyle full of wonder and goodness for the person, family, friends, environment and for people in general.

In contrast to negativity, positive and friendly thoughts apparently induce the rotational spin of subatomic particles to move in a positive direction, increasing energy so that the person 'glows' with energy and radiates friendliness, mercy, sympathy, love and so on. Positive people spread this energy around in the environment, in their surroundings, their aura field (AF) being broad and free from any energetic blocks. After developing a sort of automatism in attracting and emitting positive and pleasant energy and good mood, positive people can start receiving this kind of energy back from the environment and the universe as an immensely large ocean of bio-energy.

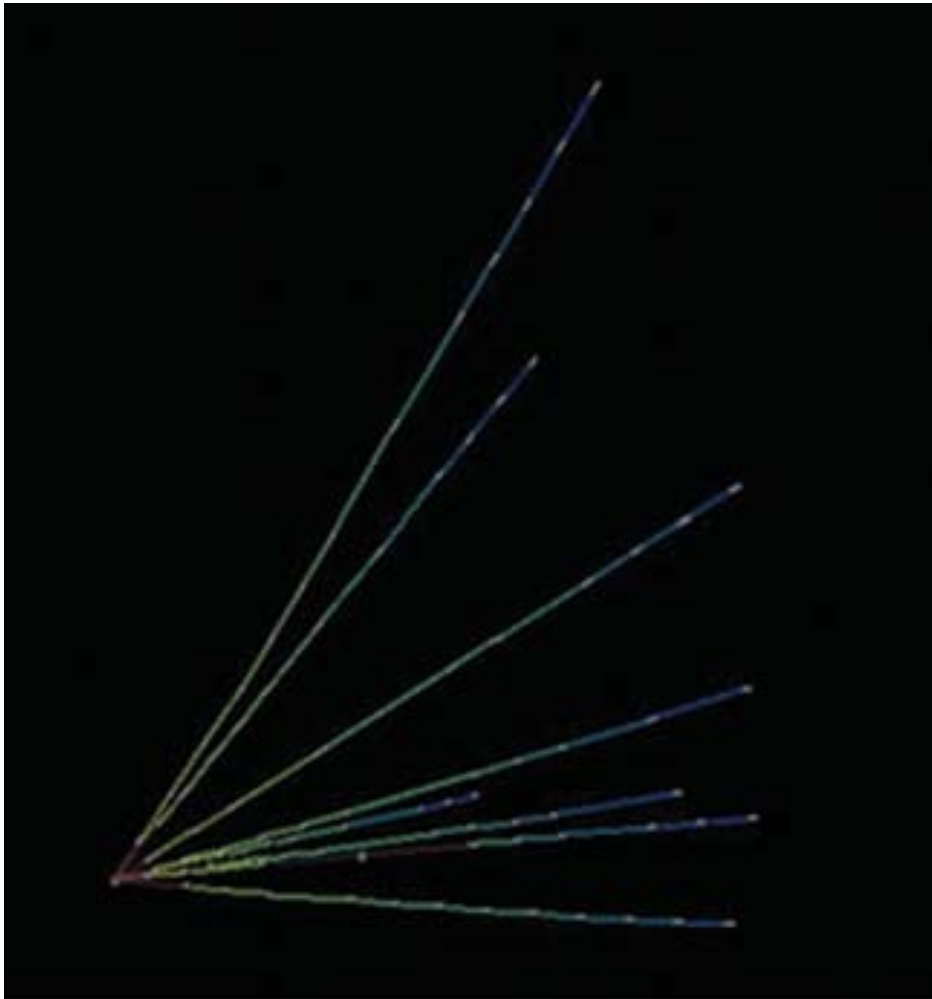
Self-cognition and education would help us to understand the circumstances that cause some bad situations and so they could be prevented or turned to a positive direction in the best possible way. By a prompt sobering up and by realising our disillusionings, people who think badly and maliciously will repent and ask for forgiveness; in other words, their awakening will change the polarity of the whole event so that the spin can take the right direction to positive, and any bad consequences can be stopped in time. Getting everything to go in the opposite direction can almost immediately stop automatism and possibly some health and other problems, as well as its materialisation in DNA, thus hindering negative hereditary characteristics. That is why religion, which is the only discipline that deals with these phenomena, is rightly an important factor in cognition, affirmation and prevention of these bad phenomena. Dialogue between scientific and religion disciplines is of enormous benefit for all.

Scientists at the University of Pavia (Italy) published an article in the research journal *Psychoneuroendocrinology* (November 9, 2005) about a study of 58 subjects who were in various stages of romance. They found that subjects in an early phase of love had an increased quantity of the molecule Nerve Growth Factor (NGF), that is to say, a 'hormone of love', while subjects in later phases of love (12–24 months) or those without romance did not have this hormone.

During any bio-energetic interaction, our bio-energetic field changes, depending on our thoughts and feelings towards a person, an object, event and the like, increasing (+) or decreasing (–) depending on whether the interaction

was positive or negative. Our body decodes these BE interactions at a conscious level in the nature of emotions, feelings, senses and the like, and, on the basis of this, we conclude whether the situation is pleasant or unpleasant and make a decision about our mood (good, bad or indifferent). In Part 1, Kirlian photographs (also discussed later) of individuals who thought good or bad things about themselves, or of a happy family, were presented, and bio-energetic interactions were seen in the bio-energetic fields of the participants. These interactions increase or decrease, depending on what they think or feel — there is an extension and enlightenment/brightening of the BEF: a sound mood and healthy organism correlate with a state of positiveness, while a decrease of the BEF, together with a negative mood, negative thoughts, poor health, and the use of drugs and the like, corresponds with a state of negativity. In fact, our aim is to achieve neutrality so that we can easily recognise positive or negative interactions and thus know how to react. If we are too positive or too negative, our true feelings can be masked, giving them a different tone. In neutrality, we can receive and transmit and feel more right, as individuals, friends, part of a group or collective, a community inhabiting beautiful planet Earth, our home.

That is why an individual takes a neutral position and a state of free mind and soul in nearly all prayers and meditations. Individuals should be free from any kind of burden and prejudice, not only physically but also mentally, as a precondition for successful prayer or meditative sessions. In this way, an individual can get a real picture of things on which he or she is concentrating or meditating. Because there have not been, at least until now, any standards for this, people have come to different conclusions, opinions, emotions or feelings about the same things, which is a precondition for disagreement and chaos; in other words, anarchy as a negative phenomenon. Balancing things that are fundamental to our existence, our relationships with each other, with others and with nature, is necessary if we want to achieve progress for everyone's benefit, which has not been the case until now. This might be why previous development of humankind has been so chaotic.



A microscope display of the 'neutrino event' inside a brick. The neutrino, coming from the left of the figure following an interaction, produces several particles identified by their tracks in the brick.

Italian National Institute of
Nuclear Physics

Since life implies polarity, our tendency to neutrality might be a prerequisite to slower but more far-reaching and more perfect development. In that sense, it is worth mentioning the existence of neutral forces, as confirmed in 1973 by Paul Musset who discovered the existence of neutral forces in the course of neutrino reactions. A neutrino is a subatomic particle that does not appear to have any interactions with almost anything else: it freely passes through nearly everything. At this very moment a huge number of these particles is passing through Earth and through each of us. So, in fact, neutral forces and states do exist.



Chapter 4.5

In the course of **creative evolution** until today, there have been various kinds of living organisms, both low and high, simple or complex. No matter whether they are of plant or animal origin, they all consist of atoms, which in turn consist of subatoms, and so on. Their connections and the conditions that caused their creation are different, but at an atomic level of structure they are basically almost all the same. In order to live and develop, micro-organisms, both single-celled and multi-celled, should have a kind of contact with the environment, and thus cope with it and exist in it. It is also known that the simplest organisms, depending on the conditions in which they live, have developed senses of various types that are helping them live —“ touch”, to hear, to feel, to see and so on. In this way they know what they are in contact with, how to protect themselves and how adequately to adapt to various situations and to continue with their lives. This is the basic way they survive, protect and feed themselves.

With its ‘sense of touch’ a micro-organism knows during contact if it is in danger and should defend itself, or if it is ready to phagocyte (a way of feeding by absorbing lower organisms) another micro-organism, during which time the prey is surrounded and, in a way, sucked in by the micro-organism like an amoeba. Being able to sense light, some micro-organisms, such as cyanobacteria, know when to open and begin various bio-chemical processes,

using light for their survival, and so on. All these interactions are based on electromagnetic processes of attraction, reflection or neutrality, to which the organisms get used to and thus they develop a primary system of living or memorising. Similar experiences are detected, learnt, memorised and materialised in themselves through QEEMR and bio-chemical processes, and remain in their genetic heritage, mostly through RNA and later DNA. (This does not mean that there is no other kind of energetic memory and heredity of bio-energy genetic fields, nature of existence and so on.) After these primal instincts had been created, micro-organisms improved and became more complex, increasing the amount of information taken from their surroundings. Hence, the basic level of communication is a QEEMR level of communication that has developed standards and carried on to future generations through learning, memorising, and so on. Thus, it is known what is pleasant and what is unpleasant, what is dangerous and what is safe, what is good and what is bad and so on.

Since the very beginning of evolution, the same regularities have been valid. Because the universe is the same everywhere, they apply almost everywhere and for almost everything. Lower organisms created and developed their senses and then their habits and memory, which are a prerequisite of developing a primal self-consciousness. Later on, these senses became more evolved, depending on the outer conditions, so that more complex senses developed in order to protect and improve the organism. More complex organisms have more sophisticated senses with which their self-consciousness and their primal way of 'thinking', that is to say, memory, is further developed. So we can say that other organisms, in order to survive, to develop and to maintain life and heredity, also develop a primal and unique emotional life, so that feelings such as we know them would be specific for the higher forms of organisms in their unique way and form of cognition.

From science, we know that there are single-celled bacteria and viruses that cause various infectious diseases both in animals and in people. If they are treated with an antibiotic or something similar, they can be destroyed. However, there are cases in which bacteria, viruses or other micro-organisms, instead of being destroyed, continue to survive, developing resistance to the antibiotic and, in some cases, even feeding on the antibiotic. In these cases, the micro-organism has sensed danger and its own mechanisms have decoded the unpleasant and dangerous situation threatening its existence. It has memorised the event and later on materialised an idea of how to save itself, in other words, it created appropriate genes in its RNA (the predecessor of DNA and also a messenger for information needed by more complex life forms) to defend itself and so survive, transferring this information to following generations. The bacteria became resistant to the antibiotic and carried that as an inherited trait to their next generations, protecting them as well. This illustrates a kind of interaction at the basic bio-energetic level, that is to say, the QEEMR or electrical level. In order to realise this, a sense or feeling, either pleasant or unpleasant (nomenclature by our knowledge but with the same result), would have been developed in order to appropriately respond to a

dangerous situation. This, and other similar cases, raises the fundamental question about the existence of basic intelligence, that is to say, self-consciousness. This kind of life is undeniably based on the existence of QEEMR/bio-energetic interactions, and the existence of a kind of **primal consciousness**.

In our everyday life, we encounter animals that are happy with their off spring and are also happy with our presence. On the other hand, the same animals in other situations show anger, aggression and the like. We can also see how much animals are able to remember things: for example, how animals can be taught to carry out certain tasks. With such universal reactions, interactions and sensitivities as those mentioned above, we can conclude that there is a primal way of receptiveness, of feeling, of consciousness, of communication together — a life in all creations on the planet.

Everything continuously radiates its bio-energy, that is to say, its QEEMR. At this QEEMR level, messages (information about the very source of radiation or generally about another state of it) are carried continuously and unconsciously, willingly and unwillingly, and without prejudice. The nature of QEEMR makes this possible, while the existence of bio-photon radiation from DNA, that is to say, RNA of live organisms, enables transmission of much more information and three-dimensional bio-holographic images. All these ideas are around us and in the universe, making memorisation possible, and, with that, creating a collective awareness and consciousness; in other words, communicative collective memory. (This is close to Jung's well-known collective unconsciousness.)

A similar structure throughout the universe, and the existence of charm and resonance characteristics, enables everything to be carried as a message or notion everywhere, and to be attracted, resonated and understood in that form and nature by all creations. Both the receiver and the transmitter can resonate with the same form, intensity and quality of bio-energy, especially those that belong to their identical kind. In this way, by identifying with and expanding the membership of the collective, these energetic spheres of communication expand as well, creating more and more organised worlds of its own type.

QEEMR attraction and the decoding of similar receiver-transmitters is a universal principle. So the overly mystified para-phenomena from our everyday life, such as telepathy, have been founded on that principle. At the basis of this, and all earlier mentioned phenomena, there is a sort of telepathic communication not only between lower but also between higher organisms and Man as well; this is at the basis of our and anyone's relationships. Namely, everyone on the planet has felt love towards somebody or something, along with an enormous desire (in the case of those in love) to see one's loved one, to be together side by side, and the like, when the heart and soul are 'aflake'. At that moment, the moment of identity, each partner in love can feel the same. A similar thing can happen when a parent wishes to see his or her child; for example, if the child is not well or something bad has happened, and so on. This

happens as a result of our closeness and attraction, of our communication at a bio-energetic level with those close to us; and it happens to all people from all races and religions on the planet. It also happens to animals, in a unique way, bearing in mind the discussion of bacteria above; it is a part of their existence.

The existence of something does not depend on our willingness or unwillingness to agree or disagree with it, or on mysticism, but on our reality, our day-to-day life. The example of telepathy (sympathy, bio-energetic communication at a distance) given above is a universal principle for all creations that very simply can be described as a projection of mental images. These communications existed, exist and will exist, and have been described by people from around the world; but they are mainly, and more significantly, described in holy books by projection of messiahs, saints and the like on to certain individuals or masses of people. As mentioned, our basis at the QEEMR level makes the existence and projection of three-dimensional ideas, images, and bio-holograms possible everywhere. At this level, even people on the planet share an identification: they unite in their everyday life, in their grief, in their happiness, in their joy, and so on. That is why a union of humankind is very important; it is a law and a necessity. Here also comes the need for uniting humankind and the world, together with the universe with all its dimensions of existence, and thus the need for a bio-energy science. We need this science for humankind on this wonderful planet Earth because togetherness is already happening. There is a realistic, magnificent natural occurrence present more or less in everyone, discovered more or less by anyone, waiting to be explained and to be brought to people of all walks of life, unconditionally in a friendly manner with compassion — as a testament of truth!



Chapter 4.6

Meditation, prayer, relaxing meditative exercises and the like have been mentioned many times in this text. Transcendental meditation has been explained as being close to the state of deep prayer. It is worth mentioning that, while meditation is being practised, the breathing changes and words in low tonality may be uttered. In the course of this, there is a vibration of an enormous number of cells and, with the change in breathing, the body is brought to a state of respiratory alkalisation and/or acidosis, which brings a change of polarity to the cells in the CNS and later in the body, through hypercalcemia or hypocalcemia, an increased or decreased quantity of calcium ions in the body. In this case, there is polarisation of the cells in the CNS, as well as in the body itself, and a relaxation is achieved (in the case of alkalosis) that reduces to unity of body, mind and soul. In this relaxation practice, the body is brought to the degree of resonant vibratory identification with the cells of the CNS, and the whole body to a unity at the physical and spiritual level. In this moment, the BEF vibrates with enormous positivity and it expands, which means self-regulation. This kind of practice is very important because, in a way, practitioners self-regulate, self-cognate, self-heal and the like; in other words, they spiritualise themselves.

From a bio-energetic perspective, the key moment in the practice of prayer or meditation is when an individual calls on the things for which he or she prays. This is important because the thing an individual prays for as information, by vibration of BE of the claimant, at that moment initiates resonant vibration and transition of this information to the body, as well. The physical body, consisting of billions of cells, vibrates, releases energy and transfers the information

(invocation) into time and space. It transfers the data that was received and memorised at the energetic level by the individual as a 'request/plea/prayer'. Only in this way can an individual transfer so many pieces of information across such a time-space distance. This is why prayers seem quiet on the outside but, in fact, are 'screams'/real storms inside the individual. That is why one prays with peace inside the organism but, by achieving resonant vibration of all cells, the existence of a 'spiritual storm' inside the body is initiated and realised in the outside world in the form of bio-energetic directed information towards its recipients. Only in that way and nature can an adequate vibration of cells be obtained and information carried at this level and in such a form to where it is meant to go. The other organism detects and decodes the information as it is, generally unchanged, and, on the basis of it, reacts more or less adequately. This is the true language of the universe.

Some people have a greater ability than others to communicate at this level. We might say symbolically that in this way, with such vibrations, the universe was created; as a result of the call of the soul of the macrocosm. This kind of communication is also an initiative for the creation of something new for the microcosm that is humanity. This, as well as other things along these lines, confirms the importance of maintaining and practising religious traditions, especially prayer and meditation. If the functional system of the state of the world is a skeleton of the collective at a certain space and time, and humankind a universal brotherhood, then religions are the soul of humankind. In that way, the body is a temple ('spiritual temple') of the soul, on the principle of religious temples for the collectives.

Regardless of its form, mantra, prayer, deep prayer, meditation, transcendental meditation, and so on, have been practised by almost all religions and almost all people on the planet, based on principles and resulting in effects that are almost identical to all. This is very important for all people on Earth because it comes from their homogeneity and identity, regardless of whether they are Muslims, Catholics, Buddhists, Orthodox, Jews, Hindu, Protestants, and so on. This uniqueness of humans, that is to say, our anatomic and energetic structural identity, the bio-energy and its universality, makes us equal, which is confirmed in practice. In this sense, by everyday practice of meditative relaxations and exercises, and with a friendly mood, humankind could develop to perfection; in other words, benefit would come out of it. We should not be thinking about how to harm somebody and rejoicing at someone's suffering, which is highly malicious; nor should we be burdening ourselves with thoughts about how to get revenge on somebody for something, which would lead to temptation, sin or similar and burden the organism with additional energetic and psychosomatic stress, and later damage and sin. On the basis of a negatively developed manner, nature of living with and resounded spin of subatomic particles and reduction to self-absorption of energy, these thoughts can cause the collapse of the organism. We should be doing the opposite. We should be doing good, only unconditionally good, and then everything and everybody would be bright, happy and well, friendly and cherished. We can only imagine the progress individuals and the whole humankind would make.

Then, and only then, and in that way, can Mankind become more of what it is considered to be — human being.

At this point it is worth mentioning research reporting that regular meditation appears to produce structural changes in areas of the brain associated with attention and sensory processing. “The area where we see these differences is involved in both the modulation of functions like heart rate and breathing and also the integration of emotion with thought and reward-based decision making — a central switchboard of the brain,” said Dr Sara Lazar of the Psychiatric Neuroimaging Research Program at Massachusetts General Hospital (USA). An instructor in Psychology at Harvard Medical School, Lazar also stresses that the results of the study now need to be validated by larger, longer-term studies. The research, undertaken at Massachusetts General Hospital (USA) using functional MRI scans, was carried out on a group of 20 practitioners of Buddhist Insight meditation, who had practised meditation for many years, and 15 people with no experience of meditation or yoga. The results were published in *NeuroReport* (November 15, 2005) and *World Science* (November 13, 2005), and were presented at a Society for Neuroscience meeting in Washington DC (USA) on November 14, 2005. Other observations by the researchers included the fact that meditation affects and alters the brain and its activities, as well as causing other long-term structural changes of the brain, slowing down the aging process and reducing thinning of callus in certain centres of the brain.

Meditation really can change the brain, study finds

Jan. 23, 2011

*Courtesy of Massachusetts General Hospital
and World Science staff*

An eight-week program of meditation led to brain structure changes in people participating in a study, researchers say. It's the first time that meditation, a practice advocated by a range of religious traditions, has been shown to lead to such changes, according to the scientists.

Previous research, they said, had revealed structural differences in the brains of meditators, but couldn't document that meditation had actually caused those changes.

The researchers reported that participating in an eight-week meditation program appeared to make measurable changes in brain regions associated with memory, sense of self, empathy and stress.

“Although the practice of meditation is associated with a sense of peacefulness and physical relaxation, practitioners have long claimed that meditation also provides cognitive and psychologi-

cal benefits that persist throughout the day,” said Sara Lazar of the Massachusetts General Hospital’s Psychiatric Neuroimaging Research Program, the study’s senior author. “This study demonstrates that changes in brain structure may underlie some of these reported improvements and that people are not just feeling better because they are spending time relaxing.”

The study is to appear in the Jan. 30 issue of the journal Psychiatry Research: Neuroimaging.

The investigators scanned the brain structures of 16 study participants two weeks before and after they took part in the eight-week Mindfulness-Based Stress Reduction Program at the University of Massachusetts Center for Mindfulness. In addition to weekly meetings that included practice of mindfulness meditation – which focuses on nonjudgmental awareness of sensations, feelings and state of mind – participants received audio recordings for guided meditation practice and were asked to keep track of how much time they practiced each day. A group of non-meditators also had their brains scanned during the same time period.

The meditators reported spending an average of 27 minutes each day practicing mindfulness exercises, and their responses to a “mindfulness questionnaire” indicated significant improvements compared with pre-participation responses, the scientists reported.

Analysis of the brain scans, which focused on areas where meditation-associated differences were seen in earlier studies, found increased grey-matter density in the hippocampus, known to be important for learning and memory, and in structures associated with self-awareness, compassion and introspection. Grey matter is the brain tissue that contains nerve cells.

The reductions in stress reported by the participants were also correlated with decreased grey-matter density in the amygdala, a structure known to play an important role in anxiety and stress, researchers said. None of these changes were seen in the non-meditators.

“It is fascinating to see the brain’s plasticity and that, by practicing meditation, we can play an active role in changing the brain and can increase our well-being and quality of life,” said research team member Britta Hölzel of Massachusetts General. “Other studies in different patient populations have shown that meditation can make significant improvements in a variety of symptoms, and we are now investigating the underlying mechanisms in the brain that facilitate this change.”

The finding also “opens doors to many possibilities for further research... to protect against stress-related disorders, such as post-traumatic stress disorder,” said University of Miami neuroscientist Amishi Jha, who wasn’t involved

in the study but researches mindfulness training's effects on stressed people.

In our everyday life, we see more and more people getting mired in drugs and alcohol on the principle that they first take drugs and alcohol, then drugs and alcohol take drugs and alcohol, then finally drugs and alcohol take the person. When analysing why people get addicted to these, and other substances as well, and later lose themselves in their worthlessness, the basic factor is the feeling of euphoria and the state of relaxation, safety, power, comfort, mightiness, and so on, that can be achieved as a result of consuming them. People can achieve similar feelings when they practise transcendental meditation or deep prayer and the like. Therefore, it is very important and useful to establish a system of education and relaxing meditative practices, as well as bio-energy therapy, for preventing and curing people from abusing substances in the long term. That is why, by the daily practice of meditation, and by living a healthy lifestyle with adequate education and relaxation techniques, there will be no need for drugs and alcohol; and in the long term these will be uprooted as unnecessary.

By studying bio-energy, as well as bio-energetic interactions and inter personal relations among people, between people and nature, their emotions, feelings, and so on, people will know the root of their feelings and understand their inter actions with nature, and most importantly with other human beings; they will know about the difference between good and bad, how to avoid bad and evil deeds and temptations, and how to react appropriately so as to overcome them. Instead of reacting with rage and anger, and unthinkingly doing something unreasonable or bad, actions that would make their own or somebody else's life a misery and so change some planned or unplanned relation, action, destiny and the like (plans, ideas, relationships, connections, coincidences and so on, may be crucial for something and somebody, as well as for the community and humankind in general), the right education and an understanding of exactly what happens in these situations would help individuals avoid them. People would know how to overcome them in the most painless way, and so the world would acquire its correct configuration, becoming a pleasant peaceful place for all of its inhabitants. Relationships among people would improve and, with that, relationships between people and their environment. People would understand the environment as a part of themselves, and would respect and care for it more, and so the environment would radiate a purer energy that would make, for example, the atmosphere and so on, more pleasant. Plants and animals would be taken care of and would be protected, while people would be protected from aggression, anger and other intentions that might be imposed on them by a knowledge that would initiate an opposite reaction on their part as a response to a detected aggressive impulse, so that the answer would be appropriate and on time. Thus, we do not have to react aggressively or with fear to every situation.

Animals can detect fear and aggression in a bioenergetics interactive way, so if you act with aggressiveness, the feedback is also aggressiveness; knowing this, and proceeding with calmness, will show many things differently. Individuals are often hurt by others or by animals simply because they showed fear, which was detected by the other party and aggressive conflict became unavoidable. With proper education these behaviours could be avoided, prevented or at least damage and destruction could be mitigated. Everyone would be in a way more taken care of in their own 'world' and their own environment. Everything would have peaceful, harmonious colouring and the same ambience. Through education, consciousness (that is to say, the subconsciousness of human beings) would be raised and the world would balance change, resulting in much brighter colours.

It is essential to appreciate the importance of a good diet for our health and our mood, as well as our healthy living. If the plants that give fruit and are used in our diet are grown with more care and cultivated more naturally, with more understanding and love, they would give better fruit, with more pure energy, that would make us feel better. Some religions, such as Islam, teach food preparation and use, and that is quite right and good from the bio-energy point of view. By eating a healthy diet, by fasting, by seeking harmony by avoiding conflict situations, violent arguments and other similarities (in other words, overcoming the negativity causes unbalance at an energetic and physical level), and by practising regular meditation or prayer, relaxation and other sports exercises and activities, directing and accepting energy in the right way, we could not only live better and feel more positive but we could also prolong human life.

By discovering alternative energetic resources and recycling measures using new technologies, and inhabiting places on Earth that are uninhabited, the planet would be inhabited completely; and by building in uninhabited places of the continents there would be work for everyone. By the introduction of one generally accepted universal system, a stable world government consisting of a world citizen congress (that could later be replaced by informative computer records because, with the new way of living, people would trust each other more and there would be no place for politicking and creating conflicts among people), and with religions united on matters of interests and in friendly dialogue with science, humankind would be prepared for a journey and development in the universe, and, with that, would discover newer and newer worlds, spaces and dimensions of existence. In this way, life would become a wonderful game of colours, energies and lights, and people would become conscious of their warmth and their light. From this perspective, the warmth of humanity is needed in this time in which we live; although it might seem futuristic, it is not unattainable. Just a little bit of goodwill among people is needed and, from a bio-energetic perspective, greater understanding and thinking about things that unite us. If billions of people dream the same dream, that dream can be realised. Since energy has its dual character (according to the principle of good and bad, light and dark), after a shorter or longer period of time it finds the channels to realise the imagined and the wanted, as

repeated by unconditional love. Hence, prayers that are sent for the welfare of one's closest ones, the world and humankind in general, practised not only individually but also collectively, are very important. As the universe has nearly the same structure everywhere, the same laws work almost everywhere. A strong unconditional wish, dream or love expressed by an enormous energy can be sent into time and space and, with that, into all dimensions of our and everyone's existence. Followed by an echo, a recurrent reaction in that sense, that energy makes progress unavoidable.

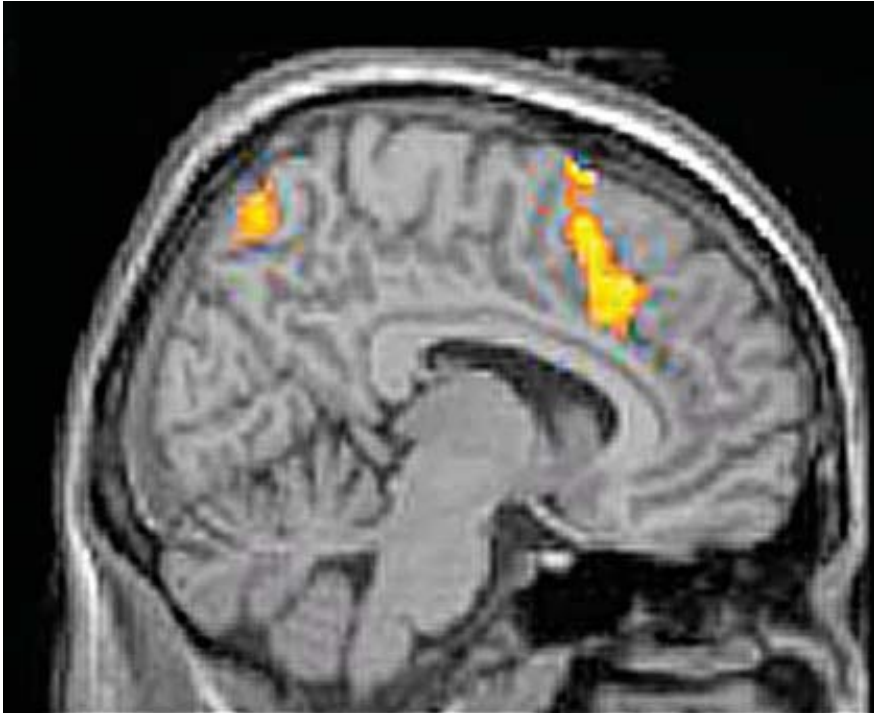
From a bio-energetic perspective, religions have a strong scientific basis but it seems that science is in its early beginnings and, at this level of development, has failed to support this interpretation. However, with the development of technology and with recent knowledge, science approaches the stage at which a more friendly communication with religion is possible, which is encouraging for a better future for both, serving humankind. A humankind united in prayer-meditative meetings with the same goal for the progress of humankind and the universe would release an enormous quantity of energy that could be projected into time and space for a particular aim and benefit. The planet would "fill" with energy in the same way as it fills with energy from the flora world, an energy that is, unfortunately, lessening and, as a result, Earth's atmosphere, which in a way is the "planet's aura", is being damaged. Almost all religions practise prayers, meditations, mantras, and so on, which, from a bio-energetic perspective, are the same, and their identity and sameness come out of it. Prayer, a cry of the soul for somebody's better tomorrow, is pure energy. So, in that sense, the various meditative customs practised by religions are very useful. Through their coordination and with scientific support, they will be even more useful and beneficial, practical and desirable, not only for individuals but also for the community. There are lots of examples of this in our everyday life. Let us look at some of them.

In Part 1, we saw that energy as QEEMR, that is to say, BE, can be transferred from one person to another, the mood depending on the type of radiation. For example, at a wedding or similar celebration, a high spirit is freely carried to all present so that they might play and sing all night and all day without getting tired, which would not happen on some other occasions, or when people were alone, or at a funeral or a similar sad event, where the atmosphere is filled with a different energy that affects nearly all present. In the latter, even those who were not close to those in mourning begin to react emotionally in a way that they would not expect in other situations; but even they have been seized by the bio-energetic wave of the event, and so react accordingly. By offering their condolences to the mourners and showing sympathy, they perform an act of sharing and caring that lessens their grief lessens, meaning they can better bear it. This also means sharing energies and taking care of them so that they do not disappear totally; in other words, are not spent, self-absorbed, accumulated or intensified so much that they are harmed. Simply, both sadness and happiness are shared because all people are the same in both their grief and their happiness. Without this experience, we do not know what might happen in moments when Man is isolated. In this way, balancing of energy is

achieved for the benefit of all participants and others. By sharing and caring for people, the whole of humankind in a way becomes a family, a universal brotherhood on the planet, which is what we have always been.

In this context, an example from our everyday life is very alarming. It is well known that, in large cities especially, mothers, together with their families, go through various traumas followed by health problems such as post-natal depression and other psychological states after giving birth. In comparison, mothers in smaller, more traditional communities, where they are visited often by relatives, friends, neighbours and others, do not, or at least such traumas occur only rarely. After giving birth, a mother feels stressed and, if she does not have any experience with childbirth, this can be fatal both for her and the baby (post-natal depression and other mental disorders can be fatal for mother and/or the newborn). By paying visits to mothers, as is done in traditional communities and encouraged by religious teachings, energy circles are created that produce a pleasant atmosphere as experiences are shared, sympathies are offered and energetic levels increase. This brings greater self-confidence, safety and warmth. The same happens for babies. If they are loved, well-attended and taken care of, they develop better than babies who are neglected and deprived of adequate attention and love. This is well known from everyday practice. There are many cases in which religions have been practising customs that are very necessary and important for people and, from a bio-energetic perspective, these are justified. It is very important to preserve these traditions and customs, select them, standardise them, scientifically classify them and widely practise them. It is important that they have been maintained all over the world even today thanks to religions, but of even more importance would be their unification and cooperation with science for the common progress of humankind as a humane community.

Jean Decety and her colleagues at Washington University in Seattle (USA) published a study in *Neuro Image* (February 1, 2005) that showed that, in our own way, we literally experience the suffering and pain of other people (strangers); in other words, looking at someone suffering and in pain, we experience their pain in our CNS. While this is further evidence of Man's altruistic character, it demonstrates even more our connection and sympathy with others, which supports what was discussed in Part 1.



An MRI image of brain activity taken at the moment the participant was watching strangers in painful situations.

Jean Decerty/University of Washington, Seattle, USA

As mentioned earlier, all organisms have their **own “emotional life”**, characteristic only to themselves, just as humans do. Because emotions are not standardised, they tend to be unjustly pushed away into the corner among the negative things considered unfavourable for Man. But emotions balanced are exceptionally important and good; they are an indicator of our interactions and our inner world. They should be studied and standardised so that we can know approximately what kind of emotional life we go through. Without that, there will be misunderstandings between individuals and within communities. We may say that someone is more sensible than another person, but that is a changeable category that depends on the situation and the moment when emotions are expressed in an appropriate and unique way: each of us has our own emotional world and we react to similar things differently, expressing emotions in different ways. Without standards and knowledge about emotions, there might be conflicts between an individual and the collective character that needs to be overcome.

Organisms are constantly finding new methods for self-preservation, and for the continuation of the lives of individuals and their communities: it is the universal principle. Studies that have explored primate social relationships are demonstrating how these may have influenced the evolution of human social relationships, intelligence and language. Dorothy Cheney, Robert Seyfarth and Anne Engh of the University of Pennsylvania in Philadelphia (USA) offer evidence of the importance of social bonds amongst baboons. The team's findings were published in a recent paper in the *Proceedings of the Royal Society of Biological Sciences*. Like humans, baboons seem to rely on friendly relationships to help them cope with stressful situations by widening their social contacts in their community.

People as self-aware, creative beings find ways to investigate, explain and use for good what they are fond of and what is good for them. One thing they did not practice as religions do, however, is faith and selfdiscipline. Without these, as with many other things, life is not so bright, so it is time to use what we know, learn more and turn towards the sunny side of life. Pleasure is connected with an emission of neurotransmitters such as dopamine, which suggests that an individual who is seized by a feeling of jealousy, hatred and the like will feel pleasure if these feelings are nourished and turned into a sort of automatic state; and that will certainly lead to revenge and envy. Hence, practising religion and various prayer and meditative, diet and spiritual rituals, customs and exercises is very important in order to stop this negative automatism and allow us to leave the enclosed circle of evil. By practising all this and by forgiving, bad behaviour can be stopped in a natural and rather simple way, and the opposite can be realised as the only path towards goodness!



Chapter 4.7

We all have a white mass in the pre-frontal region of the brain that consists of the tails of neuro cells, which serve as paths for communication and transport of information to other centres from and in the grey mass of our CNS. Recent discoveries by science have shown that people with criminal and antisocial tendencies who are chronic liars, amoral, and without any ethic or repentant characteristics towards the surroundings and themselves, have a white mass that is 25 per cent larger than that of other people. This suggests that people with sociopathological behaviour possess more white mass, in other words, a larger number of nerve ends or more paths for communication with the rest of the brain, to help them find ways of compensating for the deficiencies in their character.

A scientific study by Yaling Yang and Adrian Raine of the University of Southern California (USA), published in the *British Journal of Psychiatry* (October 2005), confirms that sections of the brain behind the forehead of pathological liars possess some structural anomalies. If the outward appearance, that is to say, the behaviour of people with criminal and antisocial behaviour, is a reflection of an individual's interior, the larger white mass shows that they have a greater number of ways by which they can compensate for their deficits by lying. Further, compared to lawabiding people, who have more grey mass and less nerve pathways (but only one truth), the eye movements of the criminal and the antisocial are greater; in other words, they cannot focus their eyes for long periods of time. They find a way out by lying, as

sociopaths tend to, and so cannot bear to look eye to eye with others; instead they constantly turn their heads as if looking for answers, a well-known characteristic of wilful deception. Because these people have committed offences in life, such as breaking the written rules of the state or the unwritten rules once given by God, and other crooked things towards people from their surroundings, they do not sleep peacefully.

According to the latest evidence, as well as to other known and unknown sources, dreams serve as generators for repairing bad habits, more precisely for coping with dangerous situations from the past. A study by Maria Fantini and her colleagues of Vita Salute San Raffaele University in Milan (Italy), published as "REM Sleep Behaviour Disorder RBD" in *Neurologie* (October 11, 2005), as well as comments by Mark Mahowald from the University of Minnesota in Minneapolis (USA), co-discoverer of REM Behaviour Disorder (RBD), confirm this. The new study is "very important", said Mahowald. "Our group had reported anecdotally that the aggression experienced in dreams of patients with RBD was out of character with their daytime behaviour. This careful study has clearly documented that fact." Sleep is useful for learning and mending bad habits and, with that, avoiding dangerous situations, which is important for the continued existence and progress of the animate world on the planet.

A study of 235 doctors, who had been disciplined by their hospitals for various reasons, was conducted by Maxine A. Papadakis and her colleagues and published in the *New England Journal of Medicine* (December 22, 2005). It was established that these doctors, who had been irresponsible during their studies, were three times more professionally irresponsible compared to those doctors who had not been disciplined. So, it seems there are individuals, regardless of their profession and class, who consciously choose an apparently shorter and safer way to personal wealth and happiness, but it need not be like that. In this sense, holy books always send a good message — do not lie, do not steal, do not kill.

Having in mind the discoveries of science, within the topic of our discussion and presented earlier in this text, we can consider the findings of Joost Beltman and Johan A.J. Metz of Leiden University (Holland) who claim, apart from other things, on the basis of their mathematical conclusion, that various groups of animals can learn their way to existence. This specially refers to genetically isolated groups of related species that later evolve into a special type within that animal group.

By stepping into a more conscious development of consciousness, new perspectives and new chapters of humankind's evolution are being opened, and that is the beginning of a chapter called the universe, the place to which humankind has always belonged. Without a complete conscious cognition and recognition of ourselves and our environment, we cannot step into this chapter, since the new perspectives, phenomena and so on cannot be faced without the correct relationship towards oneself and one's environment. By

right reasoning and knowledge, we will finally be free to embrace our destiny and become what we are considered to be — spiritual and intelligent beings.

‘Mind-reading’, or objectively revising an individual’s memories without any subjectivity (referring to the last judgment at the last hours of a person’s life, nothing else), opens up more than a theoretical possibility that supports the beliefs and writings in holy books by almost all religions on the planet. From a bio-energetic perspective, this kind of revision can be done by individuals during something like a free judgement or free court, where individuals observe their actions and judge accordingly, as if they were being judged by others or by a superior authority, an intelligent creation or the like. This is of importance to humankind because, by knowing it, relationships can improve and criminal activity can be eradicated. For that to be addressed for the benefit of humankind and for the system in general, state spending on criminals should go towards improving their environment or conditions. Only a united scientific and religious thought can authoritatively give an answer and in that way provide the solution to eradicate increased criminal activities on this planet. All this not only confirms the need for closer cooperation between religious and scientific bodies, and the formation of a new science to integrate this, but also highlights the fundamental importance of the moral and ethic character of people and, with that, their future. Practising religious teachings has been proven necessary and good. If it is known and can be proved (experiments show that it is theoretically possible and right), then educating people will encourage altruism, dispel illusions and uproot criminal and other evil acts.

The scientific discovery published in *Nature* (October 27, 2005) by Joan Silk might finally separate people from chimpanzees. Silk, of the University of California in Los Angeles (USA), and her colleagues studied chimpanzees that lived isolated, but in a steady social environment, for several years. The researchers found that the chimpanzees did favours for their immediate family only if they had figured out that the favours would be of some use for themselves also. They did not do any favours at all for strangers or neighbours! Similar conclusions were reported online at *World Science* in 2006 by scientists of the Max Planck Institute for Evolutionary Anthropology in Leipzig (Germany) while they were studying chimpanzees. Their subjects had to recruit other chimpanzees to help them find food. These scientists concluded that the chimpanzees cooperated with other chimpanzees only if they had found a calculated use in cooperating. The existence of a kind of altruism has been confirmed and the altruism of people has increased enormously.

Such behaviours are not isolated cases, or typical of some kinds of organisms at some intervals of their development, but a universally established process as a part of creative evolution. We talk about creative evolution because, for nearly all the more important matters that shape the development of an individual, a genetic change is needed in at least one genetic letter to enable further evolution. This has been scientifically confirmed by a study of bacteria (*Myxococcus Xanthus*) reported in *Nature* (May, 2006) by Gregory Velicer and

his colleagues of Max Planck Institute of Developmental Biology at Tübingen (Germany). This bacteria produces spores when external living conditions do not allow a normal way of life, the spores waiting for better living conditions in order to develop more normally. So, by 'cheating' they make use of one of two ways to ensure the colony continues to prosper. The bacteria that were prone to cheating were isolated from bacteria that did not have such an ability. By changing living conditions, mutants that did not need to cheat and that cooperated as 'good citizens' were created over the course of several generations. It is interesting that the bacteria that used to cheat produced new generations of 'good citizens' that thrived, but more interesting is the fact that the new bacteria cooperated with their familiar kind, in other words their relatives. This experiment shows that a change in only one letter of the genetic code of a bacteria was enough to create new bacteria, that is to say, to turn those that cheated into loyal citizens. Commenting on the article, Kevin Foster of Harvard University (USA) concluded that, in a community that disintegrates because of dishonesty, evolution will send mutants that return to foster teamwork.

This study has been mentioned within the present discussion because this enigma occupies more and more not only the intellectual but also the spiritual fathers of our planet: at this level of evolution of humankind, will dishonest or honest citizens prevail? Perhaps an answer can be partially given, while the rest will come through a greater responsibility, moral and ethic, in our activities at the social, humanitarian, religious and scientific level and development. This is evident from what has been stated previously, and is marked out as a wide and the only future path for Man, who, as can be seen from scientific studies, occupies a high position and place in the universe; as such, Man is unique, an almost perfect being on this wonderful planet Earth. The answer to the earlier question is that those who have an inclination for teamwork will succeed under such existential conditions.

The reality of free will and destiny, the way we are acting, lying, cheating and so on, has perhaps been explained in a very scientific way recently. The ancient debate over free will centres on whether it is an illusion to believe our thoughts and decisions are independent, since our brains really consist of atoms bouncing around according to their own rules. However, a new study reported in *Nature Neuroscience* (April 15, 2008) by John-Dylan Haynes and colleagues of the Max Planck Institute for Human Cognitive and Brain Sciences in Leipzig (Germany) suggests the questioning may be justified:

Researchers tracked brain activity while people viewed a stream of letters on screen, and then pressed a button. Each participant was asked to decide freely which of two buttons to press and when to press it. Scanning the brains with a technique called functional magnetic resonance imaging, the investigators used a statistical method known as pattern recognition to examine brain activity associated with each choice. Activity in two brain regions, called the prefrontal and parietal cortex, predicted which button the person would press, they found. These areas have previously been linked to self-reflection, selection

amongst choices and executive control. This activity occurred up to 10 seconds before subjects were consciously aware of having made a decision, according to the researchers. The findings, they added, suggest high-level control areas start to prepare an upcoming decision long before it enters conscious awareness.

From a bio-energetic point of view, this experiment suggests that not only does free will exist but so does destiny: 10 seconds is an extremely long time for electrical impulses, so we have enough time to make the right decision. If individuals are people of faith practising prayers and so on, this 10 seconds will be filled with positive thinking and prayers, so all possible outcomes would be more positive. Faith is of enormous benefit for everyone on this planet — practising it is good for individuals, families, society and humankind!



Chapter 4.8

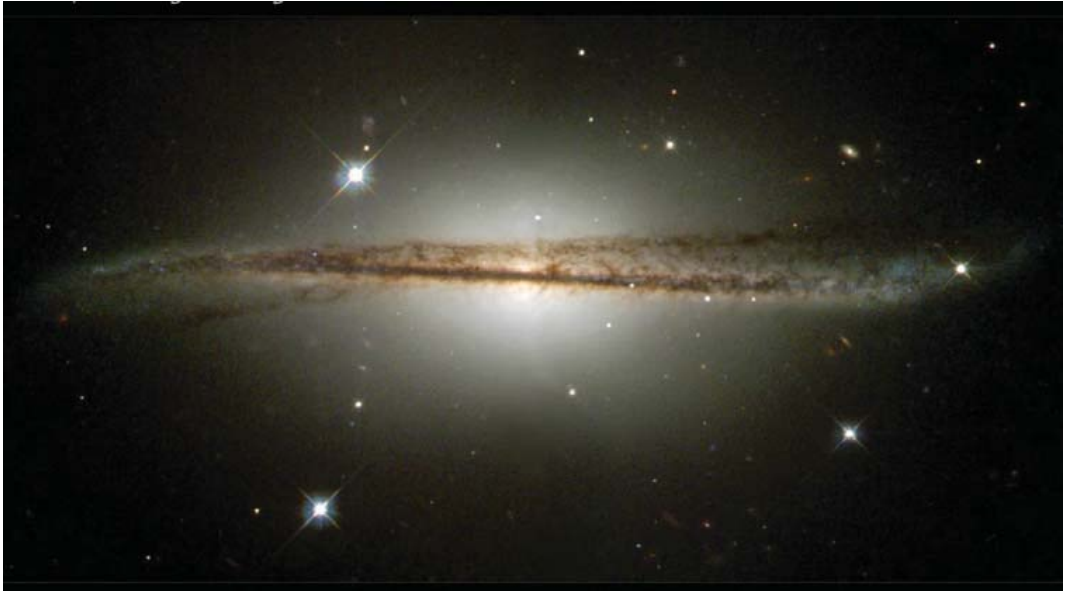
Religious knowledge in nearly all holy books teaches us that there was nothing at the beginning of our known world; and according to Christian Bible, ... then came the Word. It has been stated already that the **word** is a **vibration**. This essentially means that, at the beginning, there was nothing in the true sense of the word from a material or physical point of view. Thus, both from a materialistic and a spiritual point of view this principle is fundamental. As there is a circular movement everywhere, both in the smallest and the largest, vibration can be felt both in the smallest and the largest as a universal principle even today. (More later in the text). So we can state that, in fact, there is a circular movement in subatomic particles as the smallest physical components that we are familiar with at this level of development. According to what we have learnt up till now and according to the continuity of things, this could occur in all future discoveries, including time with its structural elements, our final possible destination and goal. There are also vibrations of waves, the most elemental energetic creations known to us at this level of development. Both particles and waves transfer to their opposites, in other words, from a particle to a wave and vice versa, through the virtual world and energies. In this context, we must not forget that each cell, as the most elemental part of life with which we are familiar (according to the definitions postulated in our evolution to date), vibrates with a certain frequency. Also, Man and the planet itself have their frequency of vibration.

Leo Blitz, a professor of astronomy, and his colleagues at the University of Berkeley, California (USA), studied the connection between the Big and the Small Magellan cloud-satellite galaxies and the Milky Way and the dark matter

of the Milky Way in our galaxy. Their findings, published in *Astrological Journal* (2006), stated that our Milky Way was twisted, symbolically as a spiral galaxy of a DNA segment in the form of a number eight, and that it vibrated, producing only three notes or tones, all of which were too deep for Man to discern. This discovery coincides with the claim in holy books that, in the beginning, there was the Word (or vibration). This is a universal principle that is present in both the smallest and in the largest, including the universe, having in mind the fact that the whole galaxy vibrates with three tones, reflecting the three big trumpets mentioned in some religious teachings.

We can discuss this even further. Namely, if a whole galaxy vibrates and generally produces only three tones, then it and its surroundings must be self-conscious of the vibrations in their own unique way, the galaxy holding itself together as a compact unit and performing its vibratory movements. At our level of development we can analyse this and explain it in the sense that there are various forces at work that maintain the galaxy and all within it as one whole galactic unit. Because galaxies are made of particles as fundamental structural elements of their physical world, and the associated forces are aware of what they carry, in other words, are aware of the power they carry, they develop their own consciousness of what they do in their own unique way, that is to say, what they present or what they are. In this way and for similar structures of their type, they build their own unique consciousness (according to the earlier presented principle, starting from the one for single-celled organisms and the like) that maintains them and opens the way for further development of these unique creations.

In this context, it is worth mentioning the scientific discovery that in the centre of galaxies there exist different concentrated forms of compact star formations. In the centre of the Milky Way galaxy, for instance, there is the formation of 'a holder, a hand holder, or cork/bottle opener or similar', on an enormous scale. With this formation exhibiting inertia



Spiral Galaxy ESO 510-13

NASA/Hubble Heritage Team

during its rotation, spiral galaxies are created (see photo). While these descriptions are symbolic, in reality it seems that there is more than symbolism to it; these formations are specifically designed to give rotational movement inertia to the galaxy system.

To illustrate further, we can mention the discovery of the so-called 'Great Attractor', an enormous wall of galaxies that attracts everything around it, including our Milky Way, with a speed of around 22 million kilometres per hour. The wall, (the wall and other so called rogue planets can count for a missing matter ...), which contains 12,000 galaxies, is the size of our Milky Way, and is at an approximate distance of 200 million light years away (remember that one light year is the distance that light with a constant speed of 300 000 km per second will travel for one year, so we are talking here about enormous huge objects and distances). According to statements by Dr Radburn-Smith of Durham University (UK), whose team made the discovery, the wall will never attract our galaxy towards it because another attraction of the universe, which is travelling in the opposite direction with a speed some nine times faster than that of the wall, separates our galaxy. In findings presented January 11, 2006, at the American Astronomical Society meeting in Washington D.C., Kocovski, a doctoral student, and other researchers at his institution, reported a major concentration of galaxies lies beyond the Great Attractor — the so-called

Shapley Supercluster, 500 million light-years away, the most massive known supercluster. It is thought that 50 per cent of the wall's attraction force comes from the galaxies themselves, while the other 50 per cent comes from what lies behind them.

The interconnection and interactivity of all and everything in Man and his surroundings, together with that in the planetary and galactic systems, in its unique way, once again initiates the notion of consciousness and awareness, albeit from another dimension this time. In this case, and according to the principle of microcosm and macrocosm, we can recapitulate that Man has an enormous number of cells — some in development, some healthy, some ill and so on. We vibrate generally at the same time as our cells vibrate separately, as does planet Earth and the whole galaxy. We contain a great number of forces, which at subatomic, inter-molecular and other levels work to hold us compact, in the same way as Earth is held compact by the various forces that work in it and around it. We also see that, on the same principle and the same level, the galaxy is held compact, likewise the whole universe, each in a way that is characteristic and unique to them. The tone element that is common to all of them is the huge ocean of bio-energy 'consciousness' in which they are flooded, and from which they originate and to which they transfer. This attachment provides a sort of 'communication' among all of them, from the lowest to the highest level, which is a prerequisite for their mutuality and their maintenance as a whole.

As an example, we can cite a woman riding on a small swing and on a massive swing. In the first case, because of the small mass of the swing, she takes pleasure in swinging and feels it small, just as it is. In the second case, the massiveness of the swing transfers to the woman, who feels its mass and inertia, that is to say, the greater Gravity Force that affects it. Because of this, she feels badly, failing to even up her power with that of the big swing. At that moment, she is a massive swing in a unique way, but with her own forces and consciousness that differ from those of the swing itself. The woman is somehow aware of it, by some interconnection of gravitation forces and/or the massiveness of the bodies and the like, and feels it as such, but the difference between her consciousness and the sense about herself and the new feeling transferred by the massiveness of the swing make her, because of the massiveness of the swing, feel badly. That is why the ill, especially those with health problems such as heart disease or high blood pressure, are advised against playing on swings. Nothing can explain or roughly clarify this unique feeling, just as the 'feeling' of vibration is unique for the universe as well as other feelings mentioned that are closer to our understanding. This is essentially the principle of consciousness of all creations; in other words, the interconnectedness at this bio-energetic level of all creations, if it can be presented in its simplest, though very rough, terms. In this way, we can talk about omniscience as universal notions and phenomena. The QEEMR nature of bio-energy makes this quite natural, as its own law and unwritten rule in which one person is more conscious than another.

A recent study of the human CNS, published in *Nature Reviews Neuroscience* (October, 2005) by Catalin Buhusi and Warren Meck of Duke University in Durham, North Carolina (USA), indicates that the brain functions as a small time machine. Electric impulses are constantly being sent from different sides of the brain towards basal ganglia, which serve as a sort of conductors for coordination of brain activities. In this case, there is time coordination of individual activities — for example, how quickly a person will speak or need to eat and so on — the optimal time being obtained during exposure to the things that are planned to be done. How to coordinate in advance and carry this out within the time frame in which it needs to be done makes the brain analogous to a time machine.

The universe is a presence in itself. For a journey to a certain spot in the universe, travellers from planet Earth would have to go through time and space, in which there is past, present and future, or in other words, length, width and height. On the other hand, if a person watches this journey from a point far away in space and time, 'from high in the universe', they will experience it in the present, observing the whole journey from some height. They see as clear as crystal the trajectory of the journey and its space and time. From this point of time, we can see the past. If light, the carrier of information, moves with a speed greater than the speed of constant light, then it can observe itself even before it starts on a journey.

In holy writings such as Cristian Bible, it is said that the time will come when three trumpets will reverberate from the 'sky', and when that occurs many important and unusual things will happen to the planet and to humankind. If one analyses this from a bio-energetic perspective, we could say that strong and deep sound is connected with brass instruments, which is perhaps why this phenomenon, connected with heavenly matters, is described in such a symbolic way. The cognition and the intensity of perception change, so the cognition alters, but basically the records are the same as they were a long time ago, as it is referring to some old prophecy or similar. This gets interesting from our topic of discussion and in connection with what was earlier mentioned about the discovery of Blitz and colleagues; namely, that the galaxy is twisted and its vibrations produce only three notes that are too deep for Man's comprehension. The fact that a huge galaxy produces just three tones is unusual, so, in that sense, it is justified to think that perhaps, looking from the present dimension, it is all about those three heavenly trumpets in and about this time.

Symbolism is interesting, provocative and mystical but, above all, very powerful, either by itself or in combination with other phenomena. Many images, used by states, religions, companies and corporations are connected and are symbols themselves, beginning with a hymn, flags, logo's or heralds and they all present symbols through which people are expressing themselves and their main characteristics. Many disciplines in science, such as physics and mathematics, involve pure symbolism. These and others forms of symbolism are used for good, and represent good intentions. However, since duality exists

everywhere, these aspects must also have their own dual form: symbolism in an opposite form and used for opposite reasons. The symbols used for bad interests are short lived and from their beginning in this Godly world they are destined to vanish, but their main purpose is to interfere, to make more trouble so they can initiate something else more radical and dangerous than themselves. Foreknowledge of the reality of our 'other side of the mirror' will ease our life paths, or lessen our suffering, if it comes to that. This is mentioned because symbolism is one of the main instruments of large-scale manipulations and conflicts. Advance knowledge will help individuals and communities be prepared for events that are constantly pending but which, at this moment, have no power for executive action.

The kind of symbolism involved in numerology, for example, teach that the numerals 7 and 8 refer to the creation of this world and the constant 'battle' over it. In the Bible God create this world in 6 days and the 7th day was for rest. The 8th day is a new day, a new beginning. The bad guy (Satan) claims that he was the one who finished this world in 6 days and the job was done, so this world is his — end of the story, but only for him. The reality is that there is a 7th day for rest, and on the 8th day, the beginning of something new. New day. So Mankind is entering its 8th day, taking its own path and its new world order. A new world order needs a new "book", needs new standards for interpersonal relationships founded on the basis of the old, needs new law and a new vision. We are entering and have almost opened the doors of the 8th day, the new day for a new beginning, our universal day for the universal brotherhood of Man, Gods' Will from the beginning; and it is done with Love, Truth & Light!

Within the context of the previously noted example of symbolism regarding three trumpets, we can realistically conclude that we know for sure that very important and strange events are constantly happening in this time. In the news there are images and articles about earthquakes, volcanoes, wild weather, twisters, drought, floods (as in the San Francisco area), wars and criminal activity (where criminal gangs are even fighting police and the army, such as in Brazil recently). However, we can also witness on the news very impressive scientific discoveries such as cervical cancer and skin cancer vaccine, new forms of business such as Space Tourism, space discoveries and probes on the moon, to Mars and to outer space. General changes in the world, such as the war in Middle East; the inauguration of the first black president of the USA; the world recession; the transformation of the UN (and the Millennium Development Goals aimed at strengthening and reorganising the UN to make it more effective); dialogue between disciplines of science, religion and philosophy; and climate change, among cultures and faiths, ... initiatives are opportunities to demonstrate many other good and blessed noble things.

As Ashteker and colleagues mathematically deduced, and in reality proved, before our present universe and the present expansion existed, there was a contraction of the universe, which achieved the present state of matters after it started to expand by quantum fluctuations and with the Big Bang. The study

also showed that time and space were made up of rather small material, invisible atomic ones, and that time has a crooked geometry. After several repeated experiments, the researchers at the Institute for Gravitational Physics and Geometry at Penn State University (USA) definitively established that time and space had a twisted geometry, that is, they twist and 'reflect' in the opposite direction like a ball rebounding from an invisible post (perhaps more than once). As well, researchers also established the quantum component of time and space around the



Model images of a multi-universe.

PhotoLibrary

time of the Big Bang. Paul Steinhardt of Princeton University (USA), a cosmologist who has explored some related concepts, wrote that the new research “supports, in a general way, the idea that the Big Bang need not be the beginning of space and time.” The universe “may have undergone one or more bangs in its past history,” he added in an online report for *World Science* and in the scientific journal *Physical Review Letters*, May 2006.

In the context of the present discussion about symbolism, it is worth mentioning that all significant famous symbols in the history of humankind, even those hundreds or thousands of years old, are similar to images seen in

photos of the universe taken by powerful telescopes, or of matters seen under a microscope, or of computer images made using other spectra of light, different from the one we see, which as a result means that we have achieved an extraordinary level of knowledge about the universe that will also develop in other fields. As examples of symbols from our historic heritage, we have the Macedonian swastika used by Alexander the Great, which is almost identical to today's view of the galaxies.

Another historic sign among many, is the Yin and Yang from Asia that symbolises the relation of the Sun and the Moon to Earth, that is, duality in the universe and maybe of the universe itself, the balanced universal principle much like the twisted galaxy that vibrates mentioned earlier. On page 229 there is a photo that closely resembles the Star of David, but it is actually a photograph of a particle of silicon being bombarded with electrons as taken by a special microscope.

Within the context of our discussion of symbolism, we can conclude that the performance of traditional dances from East and Eastern cultures and religions, such as the Shiva dance, which is elegant and beautiful, is like a wave. As well as dances, meditative practices of other Eastern religions and traditions such as those of Buddhists and Hindus, and other original Eastern writings like those of the Muslims, give an impression that they are a reflection of undulation, the most elementary and the most miniature thing in the universe, the wavy component of bio-energy. In contrast, from a general perspective, without going into anything in particular, the ritual movement of Western religions and traditions of people, for example in Christianity, are rectilinear and sharper. This movement contains, according to symbolism, a particle, a cluster of particles; in other words, beams of light as opposed to an undulation of waves. Both movements are a reflection of fundamentally the same thing, the transformation from wave into particles, and vice versa, fusing into a wholeness, making a unity that cannot be separated, fulfilling each other and making one united world!

The phenomena presented so far, which have proven to be more true than accidental, especially from a bio-energetic perspective — both on a universal level, a mega plane, and on the most elemental miniature forms of existence — have projected into the individual through collective unconsciousness, and found its reflection, place and meaning in larger matters essential for the survival and future of humankind. Because of their fundamental importance, these phenomena deserve special attention and a just place in our everyday life, in the right way and manner. Their further study, for the welfare of humankind, is and will be a task for united scientific and religious thought, which can give an authoritative answer, interpretation and direction. Without this, without deep penetration into ourselves, without our past, there cannot be right development and a leap into the future through time and space. With further study we can learn why some holy books have different interpretations about one vision and one reality, and answer what that reality is. Arbitrary interpretations would be avoided and, with that, some possible 'criminal acts'

and misuse. For example, the Nostradamus Prophecies speak about various events, among them the Second World War and the "Third World War"- and about 'tomorrow' (later) or 'next' events (Armageddon, for instance). It is just as if someone has a diary and is making a timetable on the basis of 'playing' in a circle, and is 're-playing' (or manipulating) according to the timetable, creating the world as the biggest reality movie of all time. However even they, if they exist, have misjudged the true power of God Himself and the Love, Truth, and Light. We are not here to waste time or just to please others, but to help mankind achieve its future. There is no alternative. It is the one and only way that started with Abraham, Alexander, Jesus and others from others faiths,, who, between them, saw it was time for the Holy Spirit to intervene and straighten out things. It was time for someone to 'tear a few pages of the diary and burn the rest'. That is exactly what has happened in the battle between dark and light. Light and peace will prevail on Earth with Gods' help and will, however, at this moment mankind needs to do its homework on the subject.

Was that knowledge misused? How, why and by whom? These are some of the foundation questions of this discussion. It is a reflection of current world topics and matters of interest for all mankind that come out of general conversations, yet a professional approach is required. The significance of this is huge: if the prophecies had been known and confirmed scientifically, large-scale human disasters would have been avoided. Events that are happening even today could be avoided, which makes finding answers of great importance and of great benefit for our own future. Symbolism is not just a kind topic for conversation with chit-chat just to say anything, but is of profound and great interest to mankind.

In this sense, we should not forget the teachings of some holy books relating to the seven seals. Without going deeply into the theme, certain holy scripts deal with the significance and meaning of seven seals but, apart from the interpretations, what it is known about them is still a mystery. It may be about seven heavenly bodies at the time of their observation and their position to each other, their peculiar formation or radiation;..., or it could be about seven earthly seals representing holders of states, and the allusions and expectations that are connected with various occurrences of fundamental significance and the survival of humankind as well as the planet. This is another interesting task, like many others mentioned before, for a united scientific and religious thought.



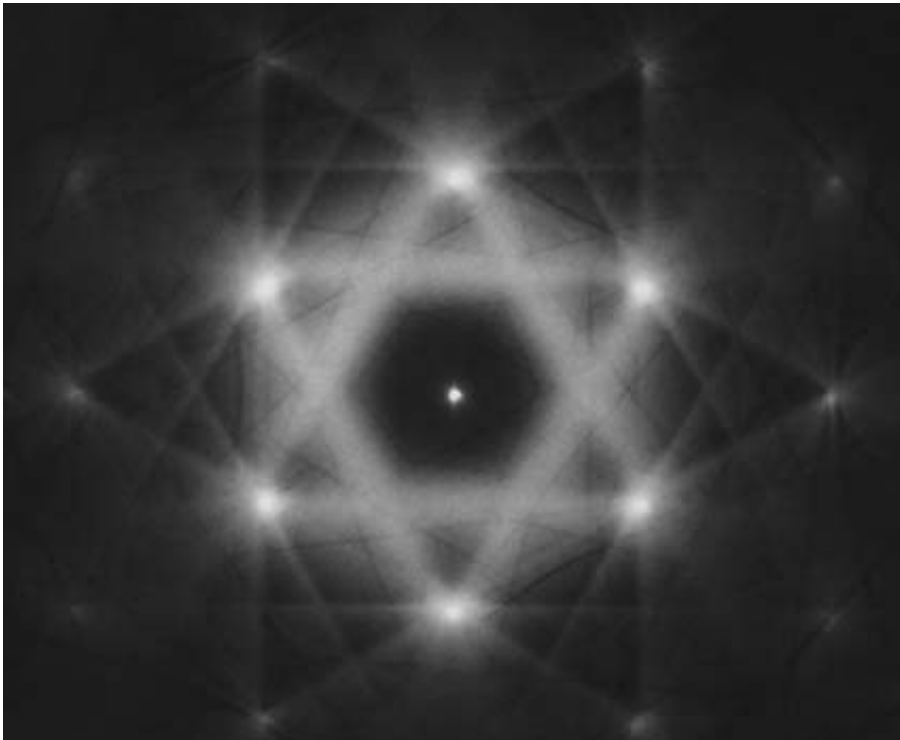
Spiral galaxy M 81.

NASA/Spitzer Space Telescope

Using quantum terminology, and considering the generally universal homogeneity of energy, we can say that bio-energy is its own and, at the same time, a universal observer. Carrying 'information' as a bio-holographic characteristic typical of itself, bio-energy generally carries information about the universe, as well as information about the locality to which it belongs. In this way, its interaction and creativity with all kinds is universal, which is obvious from the actions of elemental forces both on long and short paths: for example, electromagnetism and gravitation on the one hand and the forces of short paths, the strong and weak forces in the atomic nucleus and so on; and the way in which the universe is being held compact, giving an impression of eternity, simultaneity, multidimensionality and everything in that sense. We can simply say, since, at this level there are no standards to define the essence of bio-energy as a self-created, self-conscious, creative, multidimensional and intelligent creation for itself and all creations, it is all about a contemplative process that progressively self-develops, and thus all kinds develop a mind, that is to say, an organism in its own way, macroorganism or macrocosm of itself and for itself, on the principle of ourselves as a microcosm in comparison to it. On the other hand, the universe has its own domains where there are different rules, different continuity, different time and space and other multidimensional understandings of things and so on, yet these exist in full

harmony, giving and creating a unity in diversity with meaning, with continuity: a universal ocean of spiritual consciousness.

Comments by scientist Ching Chen about the magic power connected with the number three, after his team's discovery of Efimov's State (outlined



**The Kikuchi pattern,
achieved by bombarding
silicon with electrons.**

Micron/PhotoLibrary

earlier in the text), preface the resemblance of the atomic structure to the symbol of the Borromeo family. The image of three rings was chosen by this Italian family and has now become the key of an extraordinary scientific discovery, among many others thing. The difference here is that these symbolic rings were chosen and belonged to someone — they were not alone among the other 999,999 possibilities out of a million.

As stated previously, with nanotechnology and good scientific technique, atoms as well as matter can be rearranged. When new regulations are made and a more liberated mind, openness and cooperation are created, wide and numerous avenues, which must be used, will open for further development, but that development should be inspired, morally and ethically elevated at a higher level, because of the significant implications for evolution. This big vista means a big responsibility, which humankind needs so much to heed.

On December 12, 2007, the Chandra Observatory (see photo on page 231) observed something unusual: a huge energetic gush coming out of a black hole and 'attacking' a whole galaxy. In the context of what has been discussed, from a bio-energetic perspective, we should turn our attention to unity and omnipresence, in other words, omni-conception, or more precisely, omni-connection. Namely, this image raises the question: how could a gush of energy of several thousand light years, carrying peculiar omni-destructiveness, be projected from a black hole towards a whole galaxy? And more importantly, how did this black hole know about its 'prey' in advance and was able to plan and carry out this 'mission' thousands of light years away.



**Borromeo's ring,
the symbol of the
Borromeo family.**

Karl Szpunar of Washington University in St Louis (USA) believes that thinking about the future is impossible without the past. Szpunar was the leading scientist of an experiment in which a functional MRI was used to scan brains of individuals as they undertook various phases of contemplative processes, from memorising and recalling past events to future predictions. Researchers at Washington and Harvard universities showed that the network for future thought is not restricted to one higherlevel brain region (the frontal lobe), as some had speculated. Although this brain region carries out future-oriented operations such as anticipation, planning and monitoring, the spark for these activities may involve envisioning oneself in a specific future event, they said. This activity arises in the wider network, also used when retrieving memories of past events. The scientists reported that almost every brain region involved in recollecting the past was also used in envisioning the future. These regions included several parts of the cortex as well as in the grey matter (the outer, wrinkly areas of the brain that enclose the cortex).

Wassily Kandinsky, a Russian artist, claims that we should be able to 'hear' his paintings as well as see them. According to Jamie Ward,



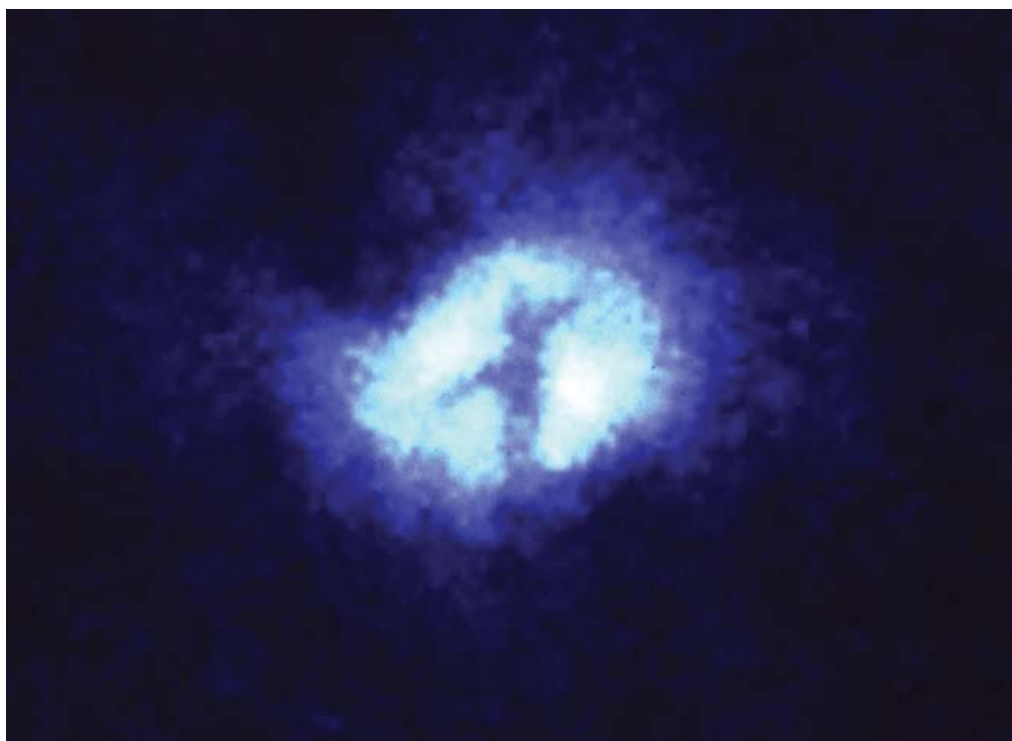
A gush out of a black hole attacks a whole galaxy.

Chandra Observatory

scientist of University College of London (UK), and the latest scientific research, some people are able to use their senses and brain centres to 'hear' paintings, while other people can connect time and space, and the like. According to Ward's findings, published in *World Science* (September 7, 2006), individuals who "observe the circumstances" in this way are in a so-called state of synaesthesia.

The universe has its own symphony and, as mentioned earlier, one can hear its heavenly harmony in different ways. Competing with the natural emissions from stars and other celestial objects, our Earth sings like a canary — it drones on in a constant hum of a gazillion notes. If it were several octaves higher, and hence, audible to the human ear, it could probably drown out the noise from a hundred television talk shows. In recent years, scientists have used seismographs to sort out these subsurface sound waves from earthquakes (all seismic waves are, essentially, the underground equivalent of sound waves). But what causes the hum, which researchers call the background-free oscillation, has been a mystery.

Physicists report that they have recorded tiny vibrations of individual molecules that could be called sounds, depending on how you define



An 'X' structure in the centre of Whirlpool Galaxy (M51).

NASA

sound and, when these are put into an audible form, bell-like tones can be heard. One of the researchers in this study, which was published in the research journal *Physical Review Letters* (October 10, 2008), Uwe Thumm of Kansas State University (USA), said he prefers not to call the effects of a single molecule's vibration 'sound'. Rather, "that's a matter of what you define as 'sound'," he argued. There is no firm line between audible and inaudible: different animals are sensitive to very different vibration characteristics, though it is safe to say none can 'hear' a molecule.

The preceding discussion has expressed several unique phenomena that are both new and rare, as well as some that are more familiar to us. Maybe there are other phenomena similar to these, therefore the aim of this book is to present them to the general public to encourage people to return to their own primal roots, to a natural occurrence of understanding, which at one time used to be the only way of expression or communication. In this way, people will start to live closer to each other with respect and without labelling or stereotyping each other. Each of us has a different gift, or a handicap, which

makes us unique in some sense. Little by little, everyone will live an open life, without fear. Life can be wonderful for all of us, living together on this beautiful planet Earth, our home. Equity means freedom and the path towards it means change. The tool for this is dialogue: dialogue between you and yourself, dialogue between you and God, dialogue among you and your friends, dialogue among friends, dialogue among friends and nature ...

Eventually, everyone will find the missing link to achieve fullness and liberty, bringing them closer to God and to other dimensions of existence, other realities, realms, worlds and universes. This link has been missing until recently, somehow hidden but always present, and is coming back like an echo from Word/vibration, as it was in the beginning and is in the present, as three magnificent charming tones/words in the largest and the smallest, in the galaxies and the planets, within us and within the molecules, as a glorious universal symphony waiting to be discovered sooner or later by everyone everywhere.



Chapter 5

Bio-energy Part 2

Bio-energy phenomena



Bio-energy phenomena

Overview

This part of the publication presents the research in the area of bio-energy Therapy (in brief), based on 20-plus years official research work in Australia as an officially registered business (with more than 25 years practical experience in this area both in Macedonia and in Australia). Parts of this publication were originally published in the Macedonian language and were released in Bitola, Macedonia in 1996 as part of a television promotion that utilised telephone lines for the public to pose 'provocative' questions (the topic of the promotion was to 'Provoke'). The promotion was very well presented and documented on video. It was the initiative and will of Dr. Vasko M. Najdovski.



Introduction

My experience in bio-energy and bio-energy therapy (quantum electromagnetic touch therapy) is the result of over 25 years of work in these fields. As a qualified medical doctor, my interest was stimulated after observing that when I placed my hand above a painful area of my body, the pain diminished. Since other people had not experienced such events, this inspired me to start research into the phenomenon.

The first objective of my research was to determine if the therapy was real and could affect other people, and if so, whether the mechanism was the same for each person, and whether it was interconnected with other forms of energy. This research lasted officially from 1988 to 1993, and was generally oriented towards analyzing short-term results post-treatment with bio-energy. Files relating to the research are kept confidential. These years of practice have proven the therapy to be beneficial, and led me to publish and send my results to a number of institutions at the local level and globally, including the Victorian Academy for General Practice in Melbourne, Australia.

My second objective was to establish the long-term effects of bio energy, and this research was conducted between 1995–96 and 2008. It dealt with the frequency of treatments and how results varied within the downtime between treatments. The main goal was to determine if positive health effects were achieved in the long-term through treatment, and were self-sustainable even after therapy officially ceased, or in other words if such effects were sustainable post-treatment in the long-term. According to the positive results, the treatment is highly recommended. Additional independent studies now need to be conducted so that further knowledge and a deeper understanding can be obtained. It is also imperative to undertake research into creating detectors and applicators of bio-energy.

We are lucky to live in a world with very powerful modern medicine, which enables treatment of a large number of diseases, some of which were untreatable only a few decades ago. The rapid development of modern

medicine was enabled partly by the rapid development of science and other disciplines, while medical scientists have also improved their knowledge about how diseases act. Yet Western medicine still lacks the knowledge to treat certain diseases, symptoms and syndromes.

On the other hand, alternative methods such as osteopathy, homeopathy, acupuncture, chiropractics and others can give satisfactory results in treating some chronic as well several acute health conditions.

Nevertheless, bio-energy seems to be one of the most powerful of the alternative medicines available, indicated by its effectiveness in relation to the client, with regard to client safety, in the time it takes to deliver positive results and to keep positive results after the treatment. In the latter it has become increasingly recognized by medical and scientific professionals, notably in Europe and the former Soviet Union, and more recently in the UK and USA.

There have thus been successful attempts to explain the nature and sources of human emotions, such as love, hate, jealousy and mercy, scientifically presented earlier in Part 1 of this book. Due to the lack of knowledge, no precise theoretical explanations about bio-energy existed, until now. The main reasons for this were lack of interest or effort by modern science: many in the medical profession dismiss it as a myth, even after all the positive changes in the world in this area: so it is very sad and unfortunate for them and their lack of knowledge.

My combined experience with modern medicine and bio-energy has enabled me to understand and evaluate the mechanisms of bio-energy treatment. This has initiated my interest in:

- the critical presentation and evaluation of comprehensive results of treatment with bio-energy; and
- postulating some scientific assumptions about the mechanism of bio-energy treatment, based on these results.

I am fully aware that because of the lack of complete experimental work, some parts of this text are written on the basis of assumptions. These can be useful in setting the parameters for future experimental work. In that spirit, this part of the book aims to:

- provide some theoretical and practical knowledge about bio-energy and bio-energy therapy;
- present some data about symptoms and diseases that can be partially or fully treated with bio-energy therapy in the short and long term;
- describe the relationship between bio-energetic interactions and human emotions;

- explore the dependence between bio-energetic interactions and interpersonal communication; and
- give directions and recommendations for further work.

As far as I am aware, this is the first such trial of bio-energy. As it represents some new scientific assumptions, I anticipate that it will open discussion and lead to varying evaluations from within modern medicine, particularly energy medicine. Your engagement and open feedback is welcome.



Results of treatment with bio-energy

It is important to state at the outset that neither before nor after treatments with bio-energy were clients assisted by any dietary or hygienic treatments, or by methods such as meditation, yoga or exercises that could enhance concentration, hypnosis, suggestion or auto-suggestion. The results were obtained during the initial research period from 1988–1993 by monitoring the patients' health condition for short periods (ranging from a few hours to a few weeks) after a session of bio-energy therapy. Extra observation was then made over a period of years on these patients to monitor for long term results; this research was conducted from 1993 and early in 1994. The observations concerned chronic cases where therapy lasted for a period of month or more at the least.

Figure A

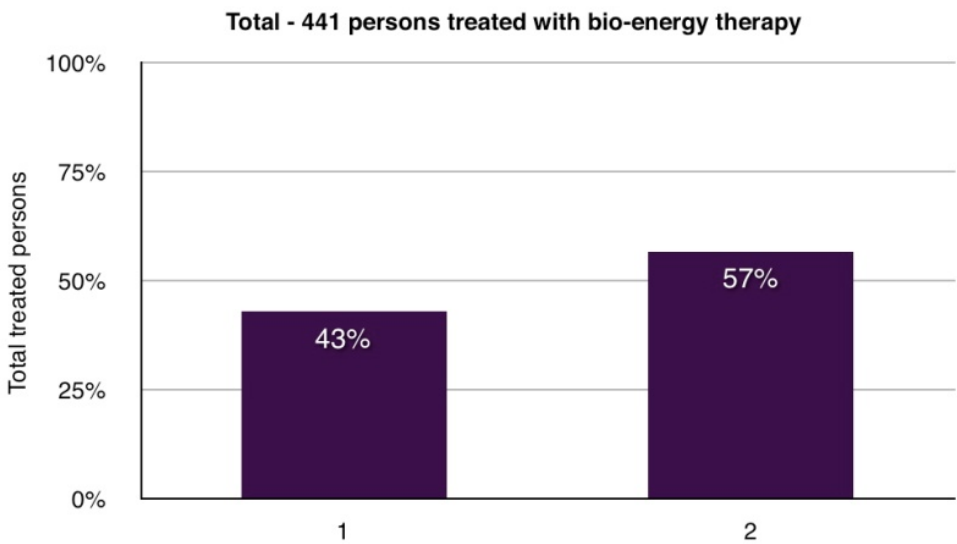


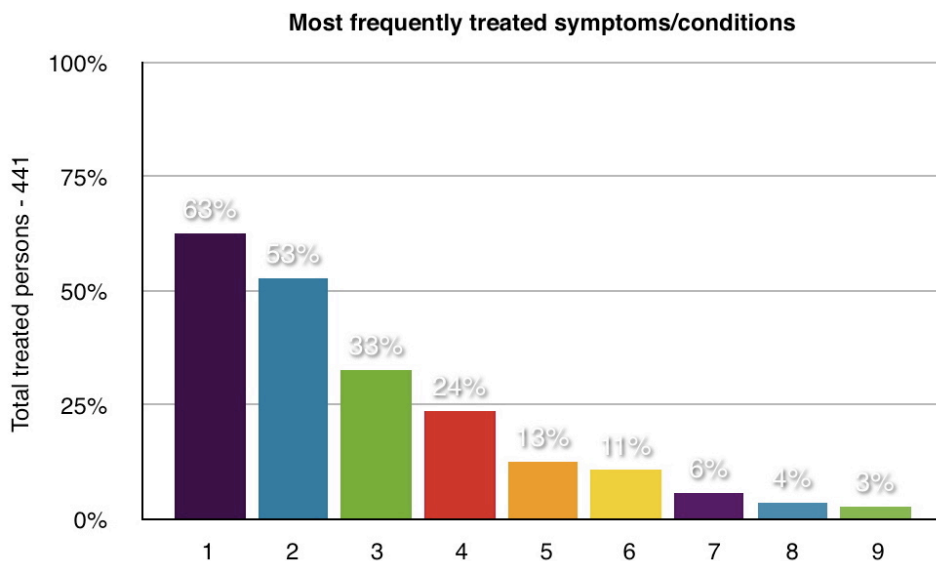
Figure A

***1 - % of persons treated once: 43%**

***2 - % of persons treated twice or more: 57%**

**** Total — 441 treated persons, across more than 1232 visits.**

Figure B



***1** - Pains of various origin — etiology such as arthritis (various origins), migraine, headaches, back pain, low back pain, RSI, etc.

***2** - Psychic problems, neurosis (various origins), bad dreams, etc.

***3** - Cardiovascular problems (i.e. angina pectoris, high blood pressure, bad circulation, etc.

***4** - Abdomeno- digestic / stomach problems.

***5** - Respiratory-breathing problems such as bronchitis, asthma, sinusitis, etc.

***6** - O.R.L / E.N.T. problems and problems with vision.

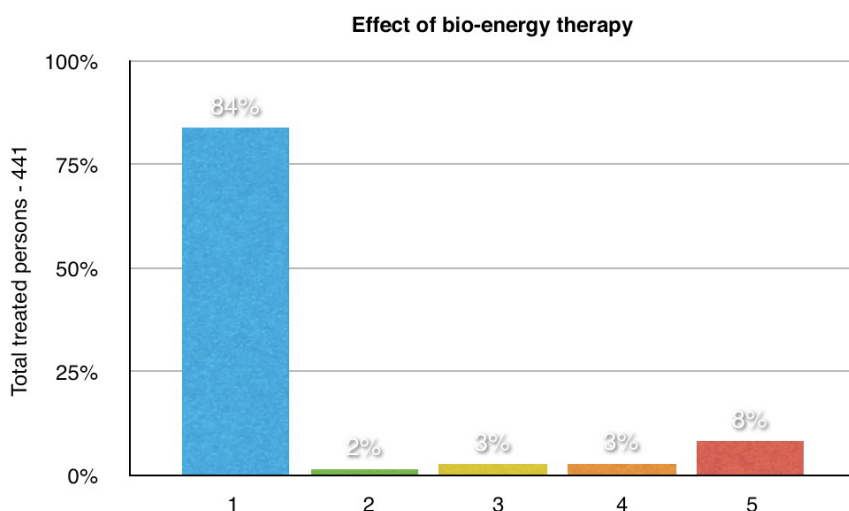
***7** - Neurological problems.

***8** - Problems with genital and urinary system.

***9** - Diabetes Mellitus.

NB Most of the treated persons had more than one symptom.**

Figure C



***1 - Positive effect** — The treated person experiences various treatment sensations/feelings (see figure E). Improvement as described by the treated persons: reduction to disappearance of pain, feeling of improved mobility of part/whole body, improvements of breathing activity, relaxation, etc.

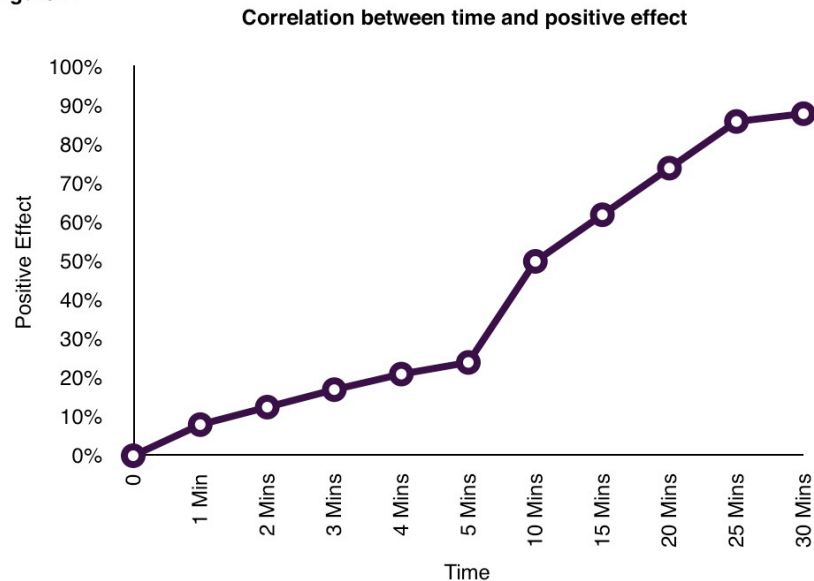
***2 -** Positive effect without describing treatment sensations/feelings.

***3 -** Not sure about treatment sensations/feelings and/or effects.

***4 -** Treatment sensations/feelings described, without effect.

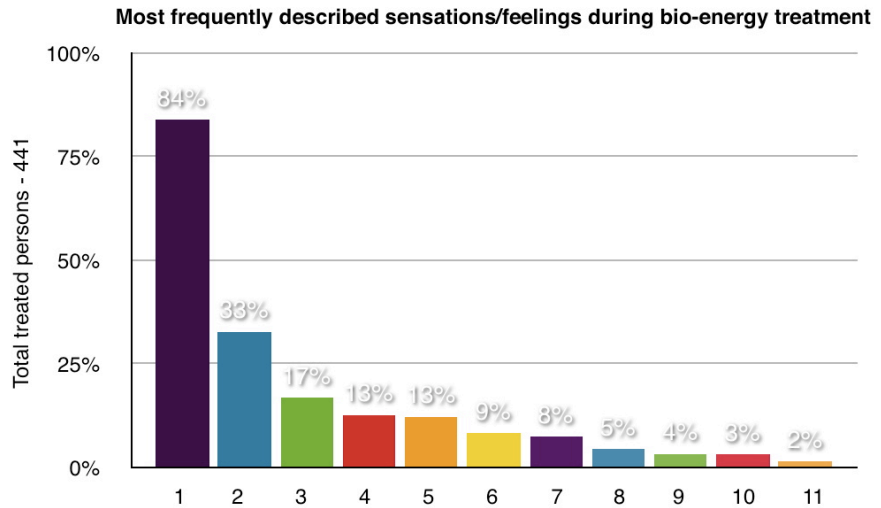
***5 -** Without described treatment sensations/feelings and without effect upon the symptomatology of the condition.

Figure D



****There is no optimal time for optimal positive effect as a rule (even in similar conditions of different persons). At times, improvement was almost immediate.**

Figure E



***1** – Hot.

***2** – Warm.

***3** – Electricity.

***4** - Very hot/heat.

***5** - Indescribable fluid through part or whole body.

***6** - Feelings of magnetism (magnetic attraction) like something "leaving" the body as attracted by a magnet or vacuum.

***7** - "Shiver" — vibrations through part or whole body.

***8** - "Walking ants" — feelings through part or whole body, (numbness, analgesia like feelings".

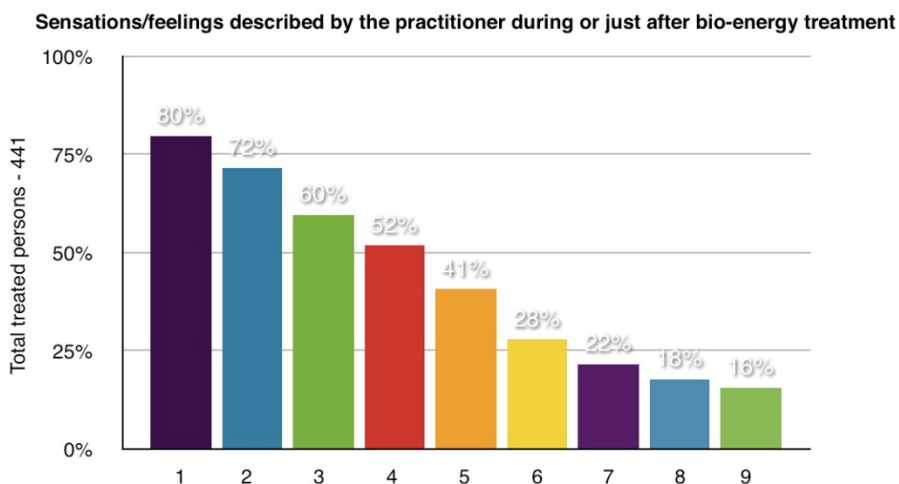
***9** - Shifting or disappearing pain/pressure.

***10** - Pins and needles.

***11** - Visions of wonderful colors.

****Most of the treated persons had combined sensations/feelings.**

Figure F



***1 - Pins and needles in hands, like "static electricity".**

***2 - Pleasant relaxed feeling.**

***3 - Mild "shifting" pain/pressure in hands/arms (shifting or static pain).**

***4 - Sharp instant, shifting/static pain in fingers, hands and body.**

***5 - Tired in body and soul.**

***6 - Mild nervousness, tension, and headache.**

***7 - Tension (with various intensity in the chest); tension and/or pain.**

***8 - Decrease of breathing activity (in most cases, corresponding with *2).**

***9 - Increase in heart activity.**

NB

****Almost Immediate disappearance of most feelings is achieved by the practitioner by washing hands in cold, clean water (as the best universal electric conductor).**

*****It was noted that statements under *7 and *9 were usually related to time of food/drink intake before bio-energy therapy, connected especially with "difficult cases", with more than one problem.**

While giving bio-energy therapy I noted that my heart activity increased (in difficult cases, mostly) and this was especially so if before therapy I consumed food or drink. In this therapy both patient and practitioner generate some form of energy, and this can lead to interference with the therapist's own body. It is therefore important to avoid compromising the health of the practitioner or client. Personally, I no longer eat or drink for two to three hours before a therapy session, except to take water or a soft drink.



Bio- energy & Bio- energy Therapy

Most studies regarding bio-energy have been recorded in the former USSR, the UK, Canada, Germany, Italy, Poland, USA and Macedonia. Generally, the results from these studies were not made publicly available, leading to the rare occurrence of individual bio-energy therapists publishing on their experiences. However, such individual testimonials were far removed from professionally conducted research and carried little scientific weight. During bio-energy treatment the transfer of some active substances in the human blood was observed. These substances, which have an effect on the metabolism, were found to include:

- enzymes such as trypsin;
- substances that enlarge the blood vessels and improve blood flow;
- substances such as morphine that act as analgesics (pain relieving).

To explain bio-energy treatment, it is necessary first to understand the nature and the meaning of the so-called life-field, otherwise known as the aura-field, life-force, aura energy, vital field or bio-energetic field. For ease of reference the term 'life-field' will be used predominantly here.

For centuries, Christianity has described the existence of the life-field around human beings. This was emphasized by people from the religious life, so-called holy people, and is presented on pictures of saints in the churches. Life-field is also described in Eastern philosophy and religious, and the energy centers related to it are known in traditional Indian medicine as chakras. The existence of these chakras is described as being at the middle of imagined lines along the body and coincide with internal gland secretions (by the Pituitary gland, thyroid, thymus, pancreas, suprarenal and sexual glands) and with the nervous plexus in the body (such as the solar plexus in the stomach area).

Professor Harold Saxton Burr at Yale University School of Medicine (USA), together with his co-workers, has measured the electromagnetic life field. Burr is noted for his use of the voltmeter to detect the electromagnetic potential of the body, first reported upon in his 1936 paper (with C.T. Lane and L.F. Nims) as "a vacuum tube micro-

voltmeter for the measurement of bio-electric phenomena". He described it as non-visual, non-tactile, and bringing control upon molecules and cells, so that they, when damaged, can rebuild themselves in the same shape and with the same functions as the previously healthy cell. This means that the life-field is employed as a memory of the constituent body and functions as a blueprint for cellular construction.

Later, in around 1939, the Soviet scientist Semyon Kirlian and his wife Valentina Khrisanovna Kirlian became interested in electro-photography and managed to record life-fields surrounding humans and plants, taking photos that were later known as Kirlian photographs. The energy field, or what is more commonly known as the aura, was captured by photograph. Since then, the so-called Kirlian photographs of the human life-field have been applied for diagnostic purposes. By 1949, it was determined that Kirlian photography could detect incipient plant diseases that were not otherwise detectable. Experimenting further upon themselves, the Kirlians acquired the first results demonstrating that Kirlian photography could provide an index of a person's physical health, and could illuminate the acupuncture points of the human body. It was not until the early 1960s, however, that the Kirlians' efforts attracted widespread recognition and official support, once journalists wrote a series of newspaper and popular magazine articles about their work. The Kirlians were awarded a pension, and furnished with a pleasant new apartment as well as a well-equipped laboratory in Krasnodar. Their first scientific paper on Kirlian photography was published in 1961, in the *Journal of Scientific and Applied Photography*. Scientific institutions around the Soviet Union set to work investigating Kirlian photography in 1962.

Subsequent experiments conducted in the USA and around the world, including in Australia, and the reports from newspapers or magazines, such as *Wellbeing* magazine, indicate that the quality and quantity of the recorded life-field describes the state of the examined body, mainly its emotional and physical well-being.

Bio-energy and bio-energy therapy is complex, and a multi-disciplinary attitude is necessary to postulate and hypothesis further theory. For that purpose knowledge of various subjects is necessary:

- Physics: atomic, quantum and especially subatomic;
- Chemistry: bio-chemistry, organic and inorganic;
- Medicine: theoretical and practical knowledge, and experience especially with physiology and pathology; and
- Biology: including cytology.etc.

Because there are changes to the energy field during bio-energy treatment (visible on electro-photographs), it is necessary to start with atomic physics (energy transitions).

As is widely known, the atom consists of a nucleus and electrons. Most of the atomic mass is concentrated in the nucleus. The electrons are in definite orbits determined by quantum theory. Every orbit has various energy levels. Transition from one orbit to another leads to an increase or decrease in electron energy, depending on the energy of both the initial and the final orbit. The electron transitions from one to another are enabled by the emission and absorptions of quanta of energy in the form of photons.

There is always electron movement, which means there is the release and absorption of energy around the human body through its electron redistributions, and simultaneously there is the existence of the electromagnetic field. In the living organism, energy transitions can exist in these states:

- harmony or balance, in which the whole quantum energy transitions are valid with a well-balanced electromagnetic field;
- and
- chaos or unbalance, which is not a valid status of energy transitions (electron movements on opposite sides), electromagnetic and quantum energy imbalances.

In the human body the latter status corresponds to disease. It is justified to make scientific assumptions about bio-energy based on the theory of electromagnetic and quantum energy emission around humans, animals, plants and other organisms. There are clear premises. It is evident that there is always the motion of electrons accompanied by the absorption or emission of quantum energy due to their transition from various orbits. It is well known from physics that the movement of electrons is accompanied by electromagnetic fields. There are always electromagnetic fields around humans, measurable with appropriate devices, and quantum energy fields, visible in Kirlian photographs.

Because bio-energy is the emission of quantum energy and electromagnetic waves, the spectrum is characterized with quality (specific wavelengths) and quantity (intensity). Various colors can be seen in electro-photographs depending on the person's emotional state, or the state of their physical health. This knowledge also helps us to understand bio-energy as a therapeutic method. Everybody has an aura, which is a bio-energetic field, and everybody has his or her own life-field with a specific spectrum, influenced by their own personality. When this field is in energetic imbalance due to some ailment, the imbalance and irregularity of the energy is illustrated by the dark zones in Kirlian photographs. This has often been observed by bio-energy therapists. During their contacts with the ill, most of the therapists tended to feel heavy, unpleasant sensations in the hands. More frequently they felt the sick regions as areas of coolness, or electron-filled areas reminiscent of static electricity.

With regard to therapeutic methods in alternative medicine, bio-energy therapy is a manual, non-contact or soft touch method. During bio-energy treatment the following processes take place:

- balancing of the quantum-energy electromagnetic life-field around the living organism;
- equilibration of the aura through polarization or re-polarization;
- recovery of the lost polarity, inside and outside the body/cells;

- supplying bio-energy from the therapist over areas empty of energy;
- neutralizing the affected or/and blocked areas full of 'negative energy', or in other words, energy that is not utilized and is sourced and/or produced by damaged/unhealthy cells, organs and organisms. Therapists sense these areas/energies as cool/electrifying/unpleasant sensations, and they are represented in black or dark colors by Kirlian photography;
- re-channeling of the bio-energy channels and meridians, inside and around the living organism;
- re-distribution or re-channeling of the electromagnetic flows, inside and around the organism; and
- removal of inactive 'static electricity'.

All of the above is the main reason to initiate biochemical reactions in the body, as bio-energetic imbalances in the life-fields are the result of pathological bio-chemistry, and all this is accomplished under the influence of the electromagnetic superior intervention of the bio-energy-therapist. It follows that the ill person receives bio-energy from the bio-energy therapist during the treatment. So the arrangement of energy in the body is ordered (set to healthy condition) during the therapy.

The recovery process varies with time depending on such characteristics of the organism as:

- duration of the disease;
- damage to cell and tissue;
- regenerative condition;
- quality and quantity of the bio-energy from the therapist;
- capabilities of the organism to accept the given bio-energy;
- capabilities of redistributing and keeping of the bio-energy balance; and
- capabilities of creating an individual bio-energy field and keeping one's own bio-energetic balance.

In such circumstances, with time the organism of the treated person starts creating its own bio-energetic shell, aura-field or bio-energy field (life field). The bio-energy field stimulates other cell-tissue for faster and more successful recovery of their functions and for reproduction of new cells, which refresh the whole body. When the body starts to act normally, this sometimes brings incredibly fast improvement in some acute disease states and symptoms, some of which is not understood by modern medicine

because the patient does not require any accompanying treatment. Also, no specific technique or diet is necessary to prepare either the patient or the bio-energy therapist.

Because there is no modern medical treatment or preparation, **improvement must be due to a transition of bio-energy** — the transition of energy that is visible on Kirlian photographs (also made visible on special video-cameras).

June /July 2009 in Japan there was independent scientific study in which it was shown that the human body is spontaneously emitting/ “radiating” with photons during 24 hours period of time. The peak of this quantum/ photon emission from human body is around 05,00 pm, and lowest level is around 10,00 am during 24-hour monitoring under special condition and with cooling the camera system around 120 C/ celsius degree temperature. This is important because before this scientific research and technology, bio-energy and “talks” about human body radiating with photons i.e. light, (therefore and Kirlian photos), were treated as a myth. (Some scientists claiming that the transitions were occurring through static electricity contact such as when different hands touched the photographs, for instance etc...). However, thanks to modern technology, today this is far from being myth and is proving it as a fact, which is entering modern science opening wide avenues for many possibilities in regards of treating humans and even animals with bio- energy, with almost no physical contact, and more, opening possibilities and realities for creating new technology for therapeutic and diagnostic purposes and other possibilities in different areas of science such as metallurgy, agriculture, ..., even environment, geology, geo- biology, law etc....

The derived results show that the quality of bio-energy is determined more by emotional and health condition than age. It is important that, during the treatment, the person feels various sensations and feelings such as:

- ‘walking ants’;
- ‘pins and needles’;
- ‘numbness’ of the treated area, similar to analgesia;
- ‘passing of electricity’ through parts of the body;
- magnetism (magnetic attraction);
- hot, heat, warm feelings;
- fluid moving through the body or part of the body, etc.

All of the above indicate the existence of various “spectra” of bio-energy across different circumstances.

So bio-energy is a spontaneous method, and no additional measures are necessary for the practitioner. It is a manual method, in that the hands of the practitioner move

around a person's body, 'feeding' him or her with bio-energy. Sometimes soft touch is used for cases of erased aura or similar.

There are no contradictions for bio-energy treatment, and it is obvious that there are no limitations. However, the practitioner has to have medical knowledge, both theoretical and practical, about anatomy, physiology, pathology, and internal medicine, or else needs to work under medical supervision. In the scope of this, it is recommended that inexperienced practitioners do not treat women during the period or at the beginning of pregnancy (2–3 months), or people who have just had operations (particularly of the head or heart, or similar difficult operations specially in early stages after operations) or who suffer from serious heart disease. However, such people have been treated without difficulty by an experienced practitioner.

Bio-energy is a relatively new 'alternative method', and no final conclusions are possible about its applicability. However, it seems to have advantages over other methods. Simultaneously, with the improvement of the person's condition, the intensity of feelings decrease during treatment. This is supported by evidence that a healthy person doesn't feel anything or almost anything from bio-energy treatment (as their energy is well balanced there is no need for extra energy), and it follows that no harm can be caused. Bio-energy therapy stimulates regenerative capabilities, introducing quantum energy and electromagnetic emissions, then bridging and repairing the imbalance in quantum energy and electromagnetic energy within the sick person. These emissions are used for creating higher energy levels and overcoming the energetic level of the damaged tissues, organs or systems. The impulses come to the CNS, which, now stimulated, sends regenerative impulses to the place that need them. Depending on the various functions and the areas treated, bio-energy can activate vasodilatation, analgesia, and antispasmodic effects. Further investigation is needed.

Sometimes the effects are felt almost immediately, which supports the argument of rebalancing quantum electromagnetic fields over the affected zones. This is the direct action for cases of acute diseases, while for chronic diseases, regenerating the bio-energetic field is of a higher priority over immediate effects, with various regenerative processes taking place until the 'job' is over.

It is well known that the physical body produces electrical impulses. In the case of a sick body, these impulses activate regenerative processes within the body. If the damage is large, there is almost no transmission of impulses. This causes the slowing down of the regenerative processes, indicated by the cold, dark or empty zones in the bio-energetic field. Effects that regenerate and repair with therapeutic purposes are obtained by stimulating definite areas.

The idea of utilising electrical impulses to stimulate regeneration has been investigated and applied in modern medicine, physiology, pathology, orthopedics, physiotherapy and so forth. With the passing of electricity at a low intensity and frequency through the cranium into the CNS, for example, this technique induces electro-narcosis, which has similarities to bio-energy treatment, stimulating the secretion of endorphins. If the electricity is directed to the sleeping centre, dreams can be achieved that correspond to the alpha state of the brain. Large numbers of people treated with bio-energy therapy,

especially those experiencing nervousness (depression or similar), explain that they felt calm, drowsy and relaxed during or after the treatment, and some of them fell asleep.

There are plenty of electromagnetic rays from various sources including artificial sources such as television sets and radios. These electromagnetic rays have the potential to cause imbalance to the life-field and cause illness. In other words, the increasing quantity of electromagnetic rays brings a greater potential for unbalancing the life-field. Important contributions to this potential danger are ground rays, Hartmann and Curry electromagnetic bands/grids and especially their 'fatal cross-sections', potentially fatal to man, also known as 'cancer zones'. These places are the cause for various diseases (for which most frequently no etiology is known by modern medicine). The electromagnetic waves that are present have an influence on nature and human bodies. The phenomenon of corona discharge is well known in physics among objects with antenna shapes (similar to the human body). The pleasant vibrations can put the CNS and the body into a non-chaotic condition, improving cell functions and the mental and spiritual state — as occurs with sound therapy, the application of positive sounds or music. The influence of these aural vibrations leads to simultaneous non-chaotic vibration and resonance of a large number of body cells. These bring deliberations of large quantities of energy, and consolidation of the function of CNS centers also occurs. The above may give good therapeutic effects to some degree.

Similarly, colors also act positively, improving the body state through color therapy. It may be an initial factor for starting various biochemical processes This utilised by medicine for the **photosensitive oxidation** of bilirubin in newborn babies, under the influence of the blue color in cases like kernicterus (icterus neonatorum).

Photosynthesis in the leaves of plants exposed to sunlight/ultraviolet rays is the best example of the breathing process in plants and it is also the best example of how light can stimulate electrochemical processes, expelling electrons from the organism and helping mankind by producing the breathable oxygen.

Since light from the sun is stimulating this process, and combined with the knowledge that white light is doing all that (we know from science that white light is the sum of all other light waves), the conclusion is that for some forms of severe and acute illnesses, light, as used in color therapy for example, could be of benefit. The same applies for pleasant sounds, as in the case of sound therapy.

The human life-field consists of the 'vital powers' needed by the human body. For every imbalance within the life-field come complications for the human body, and vice versa. The upside of this is that sickness can be detected before the disease advances to a more serious level by detecting the patho-physiologic functioning of the electro-charged ions (potassium, sodium, calcium), enzymes, and proteins. This happens before the first physical symptoms of the disease appear, as the ions carry electric charges and their non-functioning (or pathological function) brings imbalance to the electromagnetic and quantum energetic levels. The fact that the bio-energetic field is imbalanced before the first disease symptoms appear gives potential for the creation of new diagnostic tools for future medicine utilising bio-energy and Kirlian photographs.



Mechanism of Bio- energy and Bio- energy therapy

The mechanism behind bio-energy therapy (among the above mentioned and others explained later in the text) lies mainly in the unique characteristic of the bio-energy therapist and his or her **quantum-energy electromagnetic “superiority”** (this term will remain until more knowledge is presented and confirmed both from faith and reason...), as this refers to the ‘charge’ of his or her bio-energetic field. Admittedly, further work must be conducted to investigate this claim from the standpoint of human physiology (with both faith & reason).

Nevertheless, we can state that an important **“talent”** for the bio-energy therapist is his or her ability to achieve “a meditative state rhythm of the brain”, which is calm and orderly, very close to that of transcendental meditation, and similar to that of deep prayer. In this condition, there is a maximum vibration or resonance of all bodily cells and in the CNS, accompanied by controlled reception of quantum energy and electromagnetic waves. So the practitioner is open to the surroundings, with maximum opening to the “aura” (common term- BEF/ bio-energetic field around humans and everything else, - and will stay until more knowledge is presented with practical positive results as above, presented in LIGHT Intelligent Creation as well !...).

During this, the bio-energy practitioner experiences a change in breathing patterns, (or this sooner or/and later will be automatic process) They are longer and deeper exhalations and inhalations (hypo &/or hyper capnia) — a precondition for respiratory alkalosis/ acidosis, and later a condition of metabolic alkalosis and hypo/ hyper - calciemia. As a result, the electrolytic equilibrium of the body is changed, causing consecutive electromagnetic re-polarization of the CNS and the whole body, further changing the functional activity of the CNS. It seems that in meditative state “both hemispheres” of the brain are “acting equally” in that moment, and the whole body is in a “higher-level” neutral pleasant state similar to the state achieved in deep prayer or

transcendental meditation. **This meditative special “higher-level neutral state” (no other term is close to this in this point but oneness with nature)**, may also explain hypo-calcemia (alkalosis), but or/and opposite could take place too.

The opposite of rapid breathing, with acidosis as a result are also taking place and are characterized by nervousness, depressive thoughts, irritability and so on. Such activity has been observed in newborn babies.

When fed with sweet food they demonstrate higher activity in the left hemisphere of the brain, shown on EEG (electroencephalogram) scans, and they are more placid and calm.

Feeding with acidic food – in case of acidosis.(such as lemon juice), on the other hand, stimulates right-hemisphere activity which gives rise to depressive moods, irritability and crying.

This indicates the influence of alkaline and acidic conditions upon CNS activity and function.

It is well known that the left and right hemispheres of the brain act alternately in a conscious state. The active left hemisphere gives positive emotions and a logical mind, while the right hemisphere is connected with negative or depressive mental states.

Over the course of his research career Dr Richard J. Davidson, Vilas Professor of Psychology and Psychiatry at the University of Wisconsin in Madison (USA), has focused on the relationship between the brain and emotion. He reported that babies who cried more when separated from their mothers showed more right brain activity than babies who were more placid during separation.

In regards of the above statements about mechanism of bio-energy after more than 25 years of work in this field, with more certainty now, one can state that during above processes of re-polarization of the cells in the body affected is the basic system of transport of information in and out of the cells via ions i.e. elements / atoms and various molecules which are charged, and in form of ions among other things such as being actively involved in various chemical or electrical reactions in the body and/ or initiate them, they are closing or/ and opening the channels in the cell membrane stopping or providing entering of various ions, elements, minerals, various “transmitters” etc., important for normal functioning of the cells, organs, systems and whole body. Because of importance and fundamental process of this, various pathological/ unhealthy/ sick conditions/ processes..., could be stopped, postponed or re-started as normal without signs of unhealthy condition/ symptoms etc., or similar, and effects are visible in acute and chronic cases of illnesses, sometimes with almost instant improvement of the sick symptoms or in acute and in chronic cases and slowly regeneration taking place bringing health and whole system in order with bio-energy therapy, which is making this to happen because of its’ own nature as QEEMR...

So according to above statement- scientifically correct, theoretically explainable mechanism is connected with nature of bio-energy as a quantum/ energy electromagnetic radiation (QEEMR). under the influence of “superior” QEEMR-state of

the practitioner, therefore laser radiation from DNA as presented in the work of Prof. Fritz Albert Popp, (mentioned in the\is publication and as well all publications from 1991 uo to 2010, i.e. the findings in scientific study that DNA is radiation / emitting photons and electromagnetic radiation...), as well latest scientific study from Japan, mentioned in this text later, (coming from Japan 2009, that human body is spontaneously emitting/ radiating photons, i.e. glowing with light...), which is enabling doing things possible as in the case of photo-synthesis In plants, in which Light is eliminating electrons from atoms therefore are making them electrically, and in the same time chemically active, and to be involved, or and to start/ initiate various biochemical/ elctro- chemical procese's in the human organism on cell level, enabling closing and oppening various channels in the cell membrane and various oxido-reductive reations etc., and as a outcome positive results in the human health are delivered such as in the case of bio-energy therapy- quantum touch therapy.

NB

The theory of Bio-energy and Bio-energy Therapy as postulated by Dr. Vasko M. Najdovski, has been proven by two independent, in time and space, scientific findings, namely that this energy exists everywhere in nature, and that it is quantum electromagnetic radiation in its very basis, research coming from the Czech Republic, J. Lipkova and J. Cechak, who prove the existence of the electromagnetic component of the energy field in and around humans and that it can be measured; and from Japan, Masaki Kobayashi, Daisuke Kikuchi and Hitoshi Okamura prove the photon/quantum component (light component) of Bio-energy that radiates around humans, which Dr. Najdovski refers to as appearing like the aura of saints as painted on icons. With this, after some more research, Bio-energy project could move into its second stage - i.e., developing new technologies for use in all areas of human life - both here and in the space, beginning with energy medicine as these findings are significant. They open a path for further authentic research and present the opportunity to develop technologies in order to advance many different areas of human life, including medicine, the education system and in particular deep-space exploration.

During the sick condition of various origin, among other things affected is basic system of transport of information's with energy/ bio-energy i.e.

photons/ bio-photons, electromagnetic signals,... in/ or around DNA and whole organism, i.e. atoms i.e. ions, enzymes, proteins,... therefore electromagnetic radiation, and other various elements, transmitters/ neurotransmitters and molecules etc., so they are not functioning “good”, not going in, and/ or out of/from the cells, in “normal- usual ways/ routs”, from the cells via cell membrane channels in order, i.e. they are going disorganized and / or like they are all in static/ chaotic state creating non-dynamic/ static state with all it’s negative outcomes known and or unknown at this stage from human physiology.

Under the influence of talent/ ability or/and of “superior” quantum-energy-electromagnetic (QEEM) i.e. bio-energetic field and potential of the bio-energy practitioner, starts the process opposite of disorder, i.e. bio-energy therapy is affecting the sick conditions initiating various energetic/ electro-energetic and chemical reactions, re-charging various atoms etc. producing energy/ photons, also ions etc., and also directly entering the cells and DNA therefore neurons, blood, system etc., which various reactions/ intereactions initiated under the quantum electromagnetic (QEEM) “superiority” of the practitioner, and under influence of his BE (BE- bioenergy field) balanced field, these charged atoms, molecules etc., are getting in “order” in the the cells and/ i.e. balance starts to replace sick state. This process is affecting every sick condition in the organism, but mainly is affecting treated sick condition, and in that process affected is whole cell and mitochondrial system as well, i.e. energy system of the cells i.e. body. This is evident from the therapy, i.e. sick people getting energized quick, so this way, energy level is increasing by practitioners’ energy, and according to it’s regenerative capabilities and condition of the “unhealthy” system, recovery is taking place fast/ faster or slowly, and that means “recovery” at that same moment, or from than on with fast or slow “recovery”, and this process is lasting according to the state, i.e. according the treated condition in which sick organism is, therefore if illness is acute and regenerative condition of the system is good, recovery could be quick and at the same moment, or could take some time with various duration, according to the state of the sick person and ability of the therapist. So bio- energy and charged particles, are being actively involved in various chemical or electrical reactions in the body and/ or they are initiated/ initiating them, they are closing or/ and opening the channels in the cell membrane, introducing extra energy and restarting the process of recovery, providing energy and initiating production of self- energy and recovery of the organism, entering DNA, or/ and various elements,

minerals, various transmitters/ neurotransmitters and other substances etc., important for normal functioning of the cells, organs, systems and whole body including DNA, via photo repair or/and other mechanisms, etc.

Here it is important to mention again, the case of photosynthesis In plants, in which light is eliminating electrons from atoms therefore are making them electrically active, and in the same time chemically active, to be involved, or and to start/ initiate various bio-chemical/ electro- chemical process with outcome O-2 and CO-2 and water.... So under influence of bio-energy from the practitioner, in the treated human organism on cellular level, various similar reactions are enabling closing and opening various channels in the cell membrane and are starting various reactions with various substances etc., and as a outcome the state is stable again, slowly, or sometime with sudden and quick recovery / abruptly in same cases of the treatments, and positive results in the human health are delivered under the influence of bio-energy therapy/ quantum touch therapy from the practitioner. Here instantly means improved symptoms, and if there are only symptoms not illness, that means improvement after few sec., min., and general improvement is continuing until normal health is back later on.

Effects are visible in acute and chronic cases of illnesses, sometimes with almost instant improvement of the sick symptoms like pains or similar, or slowly in chronic cases recovery is taking place, and/ or regeneration is starting,... or what is needed is taking place with time, bringing health and whole system in order. This is outcome of almost every case who are following advices regarding bio-energy therapy, which is making this to happen because of its' own nature as QEEMR...(About outcome- above must be said in this manner, because there were/are persons who were not following advices and they were/are use to come just for curiosity ..., tests, or similar things..., so are not counting as serious cases ...).

So according to above statement, theoretically and practical explained mechanism is given connected with **nature of bio-energy as a quantum/ energy electromagnetic radiation (QEEMR)**, under the influence of "superior" QEEMR-state of the practitioner, his talent, ability or similar, therefore photon/ laser radiation from his/ her DNA. Here word laser is used for photons as presented in the work of Prof. Fritz Albert Popp, (mentioned in this publication and as well all publications from 1991 up to

2012, i.e. his findings in scientific study that DNA is radiating photons, and according to work of Dr. Pjotr GARAJAJEV.

With these explanations and enclosed independent scientific experiments from Japan and from the Czech Republic, (there are maybe some more similar tests done on same or similar subjects with similar outcomes globally...), and explained results, this therapy is highly recommended, doing good and healthy things in natural way, with no side effects, no enormous costs, faster recovery etc., in medicine and health care system, and also in various other fields of interest, and there are many, some mentioned in this paper...

Photon component of Bio-energy scientifically proven by:

The original Japanese scientific study is published under the title

- Imaging of Ultraweak Spontaneous Photon Emission from Human Body Displaying Diurnal Rhythm,

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Abstract

The human body literally glimmers. The intensity of the light emitted by the body is 1000 times lower than the sensitivity of our naked eyes. Ultraweak photon emission is known as the energy released as light through the changes in energy metabolism. We successfully imaged the diurnal change of this ultraweak photon emission with an improved highly sensitive imaging system using cryogenic charge-coupled device (CCD) camera. We found that the human body directly and rhythmically emits light. The diurnal changes in photon emission might be linked to changes in energy metabolism.

Introduction

Bioluminescence, which is weak but visible, is sometimes produced in living organisms, such as fireflies or jellyfish, as the result of specialized enzymatic reactions that require adenosine triphosphate. However, virtually all living organisms emit extremely weak light, spontaneously without external photoexcitation [1]. This biophoton emission is categorized in different phenomena of light emission from bioluminescence, and is believed to be a by-product of biochemical reactions in which excited molecules are produced from bioenergetic processes that involves active oxygen species [1], [2]. Human body is glimmering with light of intensity weaker than 1/1000 times the sensitivity of naked eyes [3], [4]. By using a sensitive chargecoupled- device (CCD) camera with the ability to detect light at the level of a single photon, we succeeded in imaging the spontaneous photon emission from human bodies [3]. Previously, for obtaining an image, it took more than 1 hour of acquisition, which is practically impossible for the analysis of physiologically relevant biophoton emission. By improving the CCD camera and lens system, here we have succeeded in obtaining clear images using a short exposure time, comparable with the analysis of physiological phenomena. Since metabolic rates are known to change in a circadian fashion [5], [6], we investigated the temporal variations of biophoton emission across the day from healthy human body.

Results and Discussion

A cooled CCD camera operated at -120°C with slow scanning mode read-out was used with a specially designed high-throughput lens system. The camera was placed in a light-tight room in complete darkness (schematic illustration of the experimental setup is shown in Fig. 1A). Five healthy male volunteers, in their 20's, were subjected to normal light-dark conditions and allowed to sleep from 0:00–7:00. On the days of photon imaging, volunteers were kept in a room (400 lux) adjacent to the dark room. For imaging purposes, the body surface was wiped and the subject was left 15 minutes in the dark room for dark adaptation, after which the naked subject in sitting position was exposed for 20 minutes to the CCD camera. Measurements

were carried out in every 3 hours from 10:00 to 22:00 and continued for 3 days. Just before and after the measurements, the surface body (thermography) and oral temperature were taken. Saliva was also collected after the photon measurements for the analysis of cortisol level as a biomarker of endogenous circadian rhythms. Temporal variation of photon emission intensity was calculated from image data with extraction of the face and body intensity.

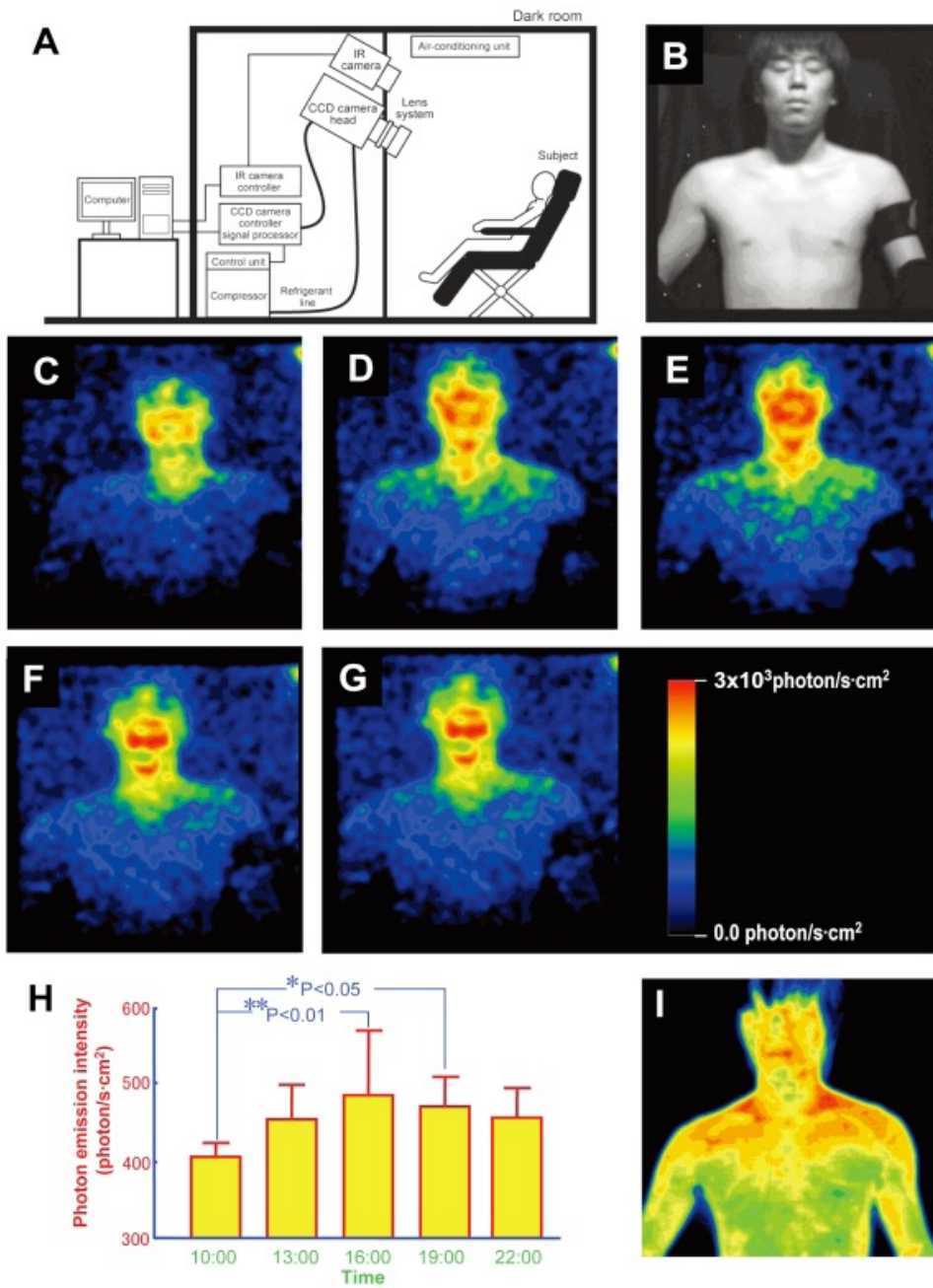


Figure 1 A. Schematic illustration of experimental setup. B–F. Images of ultraweak photon emission from human body. B. Image

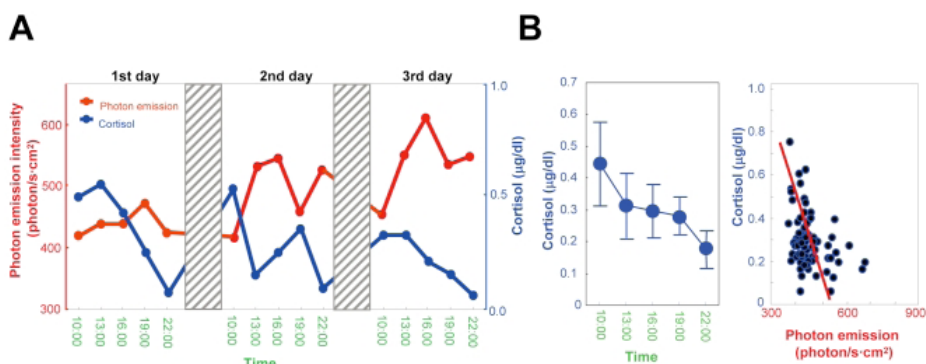


Figure 2

A. Comparison of temporal variation of biophoton emission intensity and cortisol concentration in saliva observed through 3 days. Shaded regions indicate sleeping time. The subject is the one of Fig. 1B–G.

B. Daily change of cortisol secretion (left; $n = 15$, $\text{Mean} \pm \text{SD}$) and its correlation with photon emission intensity (right). A negative correlation was found ($r = -0.3074$, $P < 0.002$).

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Human electromagnetic emission in the ELF band has been proven by independent scientific findings from Czech Republic.

Human electromagnetic emission in the ELF band

Human electromagnetic emission in the ELF band has been proven by independent scientific findings, namely that this energy exists everywhere in nature, and that it is quantum electromagnetic radiation in its very basis. From the Czech Republic, J. Lipkova and J. Cechak, prove the existence of the electromagnetic component of the energy field around humans

Human electromagnetic emission in the ELF band

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Abstract:

Submitted report is oriented to the area of detection of signals emanated by Man in the ELF – Extremely Low Frequencies range. Designed and applied antenna system suitable for signal reception in the ELF band is presented here. Results of digital signal processing in the ELF band are presented in the report in the graphic form together with the photographic material provided in the course of signal recording. Finally, there is discussion of possibilities of the ELF band signal analysis for detection of men – for example under the snow avalanche, in cave-in in underground mines, etc.

Keywords: ELF, Distance detection, Schumann resonance

Introduction:

Every living organism on our planet is surrounded with an energy in form of the signal environment. This energy is produced either by him as result of essence of his living and survival, or the energy occurs in form of natural and artificial signals of the terrestrial origin and further of extraterrestrial origin, signals coming from the near and deep

space. If Man has the option, the gift to see far broader spectrum, so not to be limited by visible part of the spectrum only, he would be surprised, for sure, how dense spectrum exists on our planet. That magical word "energy", which is cause of everything, the word quoted in any form and connected with every living or dead form, is playing important part. There is no doubt that Man itself is emanating energy. However, it is necessary to remember how weak this field is. Signals emitted by the brain constitute one component of this energy. It concerns Extremely Low Frequencies – ELF. [1]

Electromagnetic field of human body:

A cell is the basic, very small unit of the living substance. It measures about 10 microns, i.e. 10^{-5} m. But, it is still enormous to compare with particles carrying electrical charge (electrons) – there is place for at least 10,000 for them on the cell length and about 30,000 for them on the cell circumference. To create electricity in the cell, the cell needs capacity to process certain chemical materials, which the cell absorbs. The cell makes free chemical energy by chemical decomposition of the material and is using it for protein building, for its own work and for creating *electricity* in presence of oxygen. The electricity is the most important thing for some cells, for nerve cells for example. Communication between nerve cells (neurones) depends on the parameter called *resting membrane potential –RMP*. Cell interior is negative in respect to its surface and potential across the plasmatic cell membrane is reaching values between –20 mV and –200 mV. RMP of the nerve cell is in range –40 mV to –90 mV, the sustained value is –70 mV. We call such cells *polarised*. Aforesaid voltage values are really negligible; currents reach orders of magnitude of microamperes. Nevertheless, those values are not insignificant.

Schumann resonance – connection of Man with the nature:

It concerns the state on boundary of beta and theta levels, at 7.83 Hz more precisely. Brain waves have no constant frequency, but their frequency is changing. The whole control system is buried deeply in the brain, in the thalamus. The *thalamus* is switching and integrating centre of excitements coming from sensors, from the spinal cord and the brain stem to the cerebral cortex. The system is called *thalamic rhythmic generator* or "pacemaker". Calcium ions are seeping slowly to particular *thalami-cortical neurones*, which are oscillating 1.528 sec and are triggering brain waves. Then, the brain waves

propagate up to the cerebral cortex. If those neurones are *saturated* with calcium ions, the thalamic oscillations stop. The brain waves are "idling" during this "*silent phase*", lasting from 5 to 25 seconds. The thalamic oscillations start again, when the calcium level in cells drops to the value allowing the neurone to oscillate again. EEG has shown that waves do not expand to the brain only, but through the whole nervous system (through the perineural system) and to every part of the organism. So, the brain waves adjust sensitivity and activity of the whole nervous system. The time domain, where the brain waves are not thalamus controlled is the most interesting part of the system. Then the *brain field* can be affected by electrical and magnetic *rhythms from outside*, natural or artificial. Magnetic field of Earth (geomagnetic field) is reason for magnetic needle of a compass pointing to the North Pole. But, if you look to the needle under the microscope, you see its minute movement due to *geomagnetic microscopic pulses*, which are reason for the unique geophysical mechanism – *Schumann resonance*. German atmospheric physician W. O. Schumann brought in the idea that the space between the Earth surface and the ionosphere behaves as the *resonance cavity* – energy for this cavity is supplied with thunderbolts. The Schumann theory was accepted in sixties. So, thunderbolts generate *electromagnetic standing waves* propagating around the globe. Those waves are reflected from the ionosphere back to the Earth surface and then back to the ionosphere. So, value of the Schumann resonance depends on the distance of the ionosphere from the Earth surface, which is subject to the *Sun activity*. This value is subject to the magnetic storms disturbing the ionosphere above all and the Schumann resonance trails off, so it is created by *terrestrial activities* and modified or *modulated by extraterrestrial activities*. The following correlation is interesting as well, resulting from that all – *wave length*. We can find out by calculation, that $\lambda = c/f = 2.997\,924\,580 \cdot 10^8 / 7.83 = 38.3$ thousand km. This number is not accidental and it is close to the value of the *Earth circumference*. [2],[3]

Measurement of the human body emission in ELF band:

For measurement of the human body emission in ELF band, we can use the loop antennae of the type used in bands ranging from ELF to UHF from the very beginning of radio communication. Their small dimension is their main advantage to compare with the wavelength for which they are intended and the source distance. Big volume of the copper wire needed for winding is their main disadvantage. They are working with the magnetic field entirely, to compare with their counterpart – electric monopole. For this purpose, the loop antenna was designed and constructed, its picture is in Fig.1.

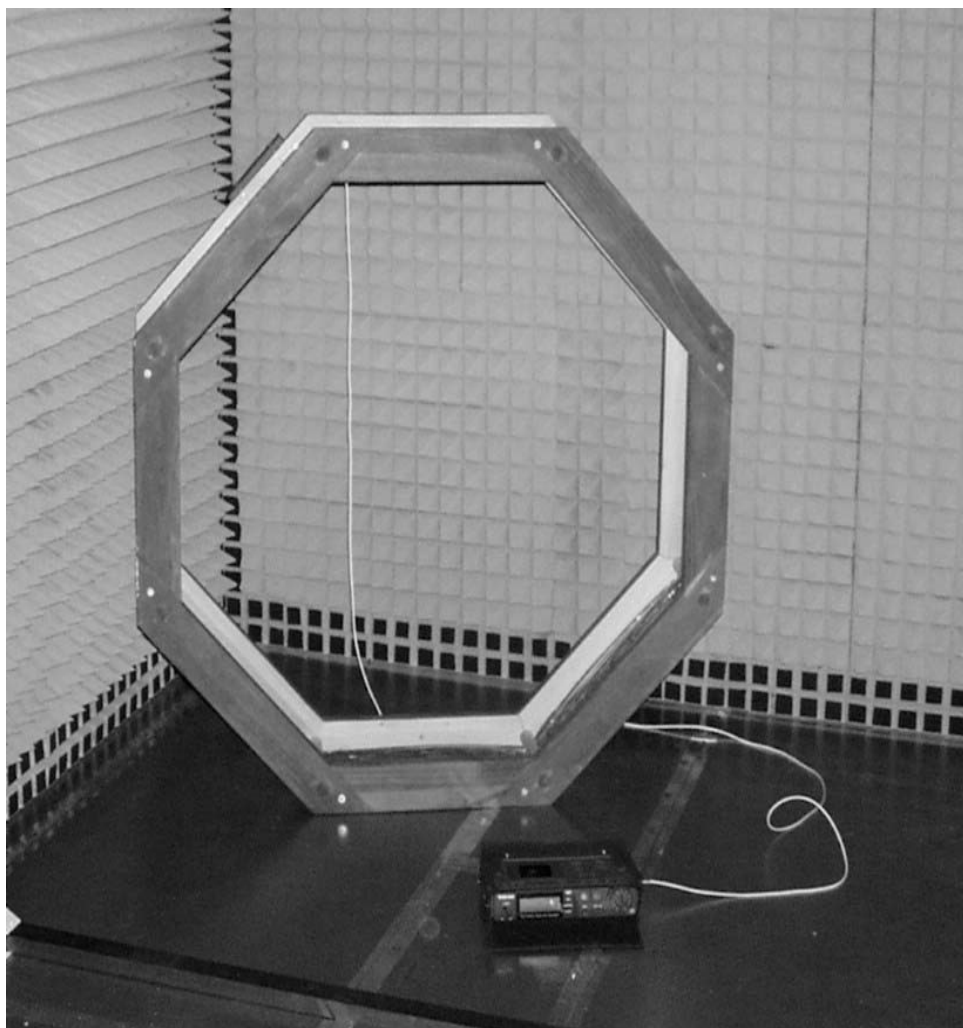


Fig.1: Picture of the loop antenna for ELF band in the anechoic chamber

The antenna has following electrical parameters:

- Antenna effective aperture: 118.3m^2 ,
 - Loop resistance: $5.98\ \Omega$,
 - Loop inductance: $31.2\ \text{mH}$,
- MEASUREMENT SCIENCE REVIEW, Volume 5, Section 2, 2005

Low limiting frequency: $30.5\ \text{Hz}$. Signal from the antenna goes to the current/voltage converter and then to the subsequent amplifying stages. The amplified signal goes through the low pass filter. To filter out the all around present industrial interference in the $50\ \text{Hz}$ band, the low frequency value of the filter was chosen of $30\ \text{Hz}$. Filter output signal was digitised with the 16-bit A/D converter with the sample frequency of $44.1\ \text{kHz}$. The whole measuring installation was supplied from a battery and placed into the grounded anechoic chamber. The signal in ELF range was registered without a person and with a person, alternatively.

ELF band signal analyse:

There is an example of time record of the signal 4 minutes long in the Fig.2, where the first part was recorded without presence of a person in the anechoic chamber and the second part was recorded in presence of a person. Even when the record was made in the shielded anechoic chamber, it is obvious from the time diagram of the recorded signal that there is strong industrial interference present. The sporadically emerging harmonic signal on frequency $16.87\ \text{Hz}$ 8 to 39 periods long deserves special attention. It is highly probable that this signal comes from the near trolley line. This signal did not appear in the record made during measurements in the night.

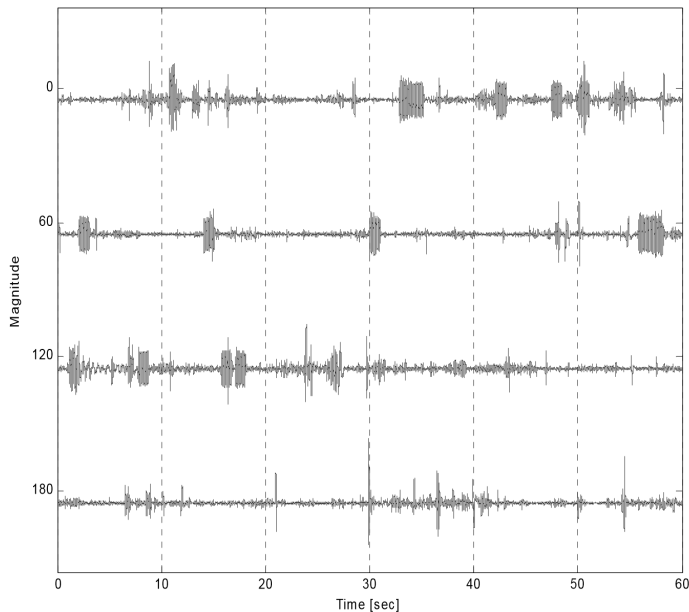


Fig.2: Time record of ELF signal in the anechoic chamber

The spectral analyse gives us more information about recorded signals. The PSD - Power spectral density diagram of the recorded data is in Figure 3. There is the Schumann resonance on frequency of 7.1 Hz in both diagrams (red), but it is interesting fact that there is the resonance of the Schumann frequency with the Man (blue) – distinct splitting and amplification of the spectral peak on frequency of 7.1 Hz. There is the second distinct frequency peak on frequency of 6.7 Hz, too. Hereinafter, there were other, albeit less distinctive harmonic components on frequencies of 2 Hz, 3 Hz, 4.2 Hz, 16.8 Hz and 21.3 Hz incidental with the cardiac, breathing and cerebral human activity.

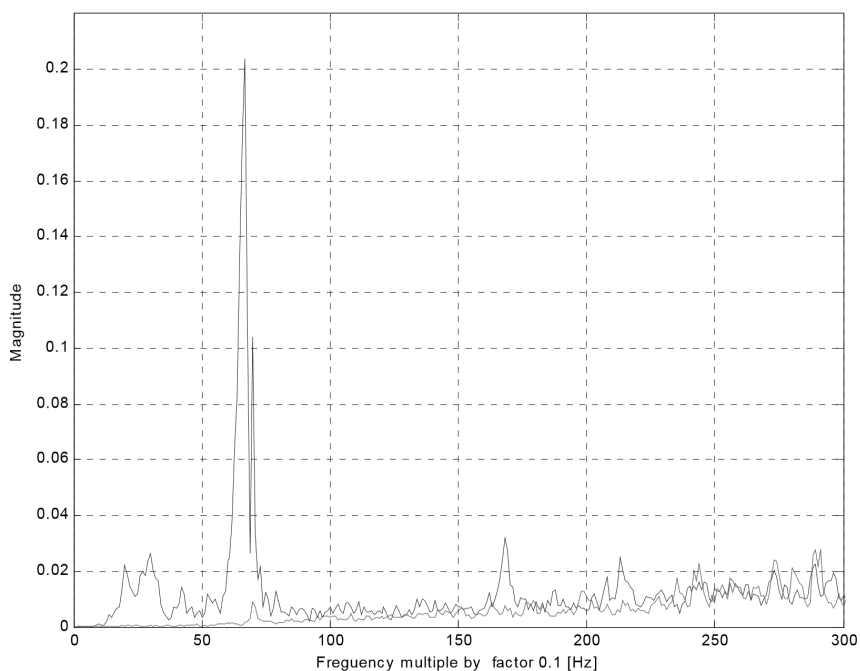


Fig. 3: Diagram of the PSD of the analysed signal
(red line-without a human, blue line-with a human)

Conclusion:

It is evident from provided measurements and their analyse so far, that Man is emitting electromagnetic energy in the band of interest. This band was situated deliberately to the frequency interval of 0.5 – 30 Hz. In following works, it is necessary to optimise antenna aperture size from the point of view of reasonable dimensions and to carry on set of measurements allowing detection of the human body imprisoned under the snow avalanche, for example. However, design and construction of ELF band antenna with the distinct directional characteristic is the necessary assumption, in order that other people in vicinity do not influence measuring results. Design of antenna system form is

subject of research of this problem as well. Question arises, too, if it is advantageous to design the dedicated loop antenna with the free resonance frequency on 6 – 7 Hz approximately. Considering supposed applications, only magnetic component of the emission was recorded and analysed yet. Nevertheless, works on measurement and recording of electrical human body emission component are in stage of already designed dedicated measurement devices.

Results of future research of this certainly interesting problem will be presented.

The Ministry of Industry and Trade supported this work under the grand No: FI-IM-105.

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- [3] Jones, D. L., *Extremely Low Frequency (ELF) ionospheric radio propagation studies using natural sources*, IEEE Trans. Comm., 1974

Presented is also in this publication:

Brains of Buddhist monks scanned in meditation study

By Matt Danzico BBC News, New York

BBC NEWS

24 April 2011 Last updated at 01:13 GMT

Brains of Buddhist monks scanned in meditation study

By Matt Danzico BBC News, New York



The study peers into brains of monks

In a laboratory tucked away off a noisy New York City street, a soft-spoken neuroscientist has been placing Tibetan Buddhist monks into a car-sized brain scanner to better understand the ancient practice of meditation.

But could this unusual research not only unravel the secrets of leading a harmonious life but also shed light on some of the world's more mysterious diseases?

Zoran Josipovic, a research scientist and adjunct professor at New York University, says he has been peering into the brains of monks while they meditate in an attempt to understand how their brains reorganise themselves during the exercise.

Since 2008, the researcher has been placing the minds and bodies of prominent Buddhist figures into a five-tonne (5,000kg) functional magnetic resonance imaging (fMRI) machine.

The scanner tracks blood flow within the monks' heads as they meditate inside its clunky walls, which echoes a musical rhythm when the machine is operating.

Dr Josipovic, who also moonlights as a Buddhist monk, says he is hoping to find how some meditators achieve a state of "nonduality" or "oneness" with the world, a unifying consciousness between a person and their environment.



The study specifically looks at the default network in the brain, which controls self-reflective thoughts

"One thing that meditation does for those who practise it a lot is that it cultivates attentional skills," Dr Josipovic says, adding that those harnessed skills can help lead to a more tranquil and happier way of being. "Meditation research, particularly in the last 10 years or so, has shown to be very

promising because it points to an ability of the brain to change and optimise in a way we didn't know previously was possible."

When one relaxes into a state of oneness, the neural networks in experienced practitioners change as they lower the psychological wall between themselves and their environments, Dr Josipovic says.

And this reorganisation in the brain may lead to what some meditators claim to be a deep harmony between themselves and their surroundings.

Shifting attention

Dr Josipovic's research is part of a larger effort better to understand what scientists have dubbed the default network in the brain.

He says the brain appears to be organised into two networks: the extrinsic network and the intrinsic, or default, network.



Dr Josipovic has scanned the brains of more than 20 experienced meditators during the study

The extrinsic portion of the brain becomes active when individuals are focused on external tasks, like playing sports or pouring a cup of coffee.

The default network churns when people reflect on matters that involve themselves and their emotions.

But the networks are rarely fully active at the same time. And like a seesaw, when one rises, the other one dips down.

This neural set-up allows individuals to concentrate more easily on one task at any given time, without being consumed by distractions like daydreaming.

"What we're trying to do is basically track the changes in the networks in the brain as the person shifts between these modes of attention," Dr Josipovic says.

Dr Josipovic has found that some Buddhist monks and other experienced meditators have the ability to keep both neural networks active at the same time during meditation - that is to say, they have found a way to lift both sides of the seesaw simultaneously.

And Dr Josipovic believes this ability to churn both the internal and external networks in the brain concurrently may lead the monks to experience a harmonious feeling of oneness with their environment.

Self-reflection

Scientists previously believed the self-reflective, default network in the brain was simply one that was active when a person had no task on which to focus their attention.

But researchers have found in the past decade that this section of the brain swells with activity when the subject thinks about the self.

The default network came to light in 2001 when Dr Marcus Raichle, a neurologist at the Washington University School of Medicine in the US state of Missouri, began scanning the brains of individuals who were not given tasks to perform.

The patients quickly became bored, and Dr Raichle noticed a second network, that had previously gone unnoticed, danced with activity. But the researcher was unclear why this activity was occurring. Other scientists were quick to suggest that Dr Raichle's subjects could have actually been thinking about themselves.

It's a major and understudied network in the brain that seems to be very involved in a lot of neurological disorders, including autism and Alzheimer's"

End Quote Cindy Lustig University of Michigan, associate professor of neuroscience

Soon other neuroscientists, who conducted studies using movies to stimulate the brain, found that when there was a lull of activity in a film, the default network began to flash - signalling that research subjects may have begun to think about themselves out of boredom.

But Dr Raichle says the default network is important for more than just thinking about what one had for dinner last night.

"Researchers have wrestled with this idea of how we know we are who we are. The default mode network says something about how that might have come to be," he says.

And Dr Raichle adds that those studying the default network may also help in uncovering the secrets surrounding some psychological disorders, like depression, autism and even Alzheimer's disease.

"If you look at Alzheimer's Disease, and you look at whether it attacks a particular part of the brain, what's amazing is that it actually attacks the default mode network," says Dr Raichle, adding that intrinsic network research, like Dr Josipovic's, could assist in explaining why that is.

Cindy Lustig, associate professor of psychology and neuroscience at the University of Michigan, agrees.

"It's a major and understudied network in the brain that seems to be very involved in a lot of neurological disorders, including autism and Alzheimer's, and understanding how that network interacts with the task-oriented [extrinsic] network is important," she says. "It is sort of the other piece of the puzzle that's been ignored for too long."

Dr Josipovic has scanned the brains of more than 20 experienced meditators, both monks and nuns who primarily study the Tibetan Buddhist style of meditation, to better understand this mysterious network.

He says his research, which will soon be published, will for the moment continue to concentrate on explaining the neurological implications of oneness and tranquillity - though improving understanding of autism or Alzheimer's along the way would certainly be quite a bonus.

What was initially presented in the first edition of this publication back in 1992/ '93, with explanation back then, and with more explained details in 1996 (LIGHT Part One, published in Macedonia, in Macedonian language), also in the text above in brief, connected with similarities with the meditation and the process of photosynthesis, (page 354), and that is - bio-energy as QEEMR can, and is in fact doing interventions as QEEMR-light, under, as was stated earlier, "superiority" (or "gift" ability, talent or else... in that sense...!), of the bio-energy practitioner, to "eliminate" electrons from atoms of elements, molecules etc., and make them electrically active, in which state they can easily enter or/ and start various needed electrical and/ or bio-chemical/ chemical reactions, and oxidation... or other reactions or similar..., and is taking place in the cells and cell membranes, so is allowing cell membrane to close, or/ and open some important channels for processes in place, and almost instantly results are derived in form of feelings, i.e., in case of pains the pains are stopping, it does not matter if they are in stomach due to spasm, or injury or similar, this process is universal and is taking place almost instantly or after some time, and is working on as explained in the text, and is same success unchanged for more than 25 years on daily base. This process is enabled with achieved re-polarization of the cells therefore processes, pains or other pathological states like spasms, nervousness, bad feelings etc., to be eliminated and comfort and positive change to be / was/ is achieved almost instantly/ immediately, as is happening in practice all these years practicing bio-energy therapy. The same is happening with chronic processes where regeneration is taking place.

Here, it must be added, this mechanism of building the energy in the cells is for affected by illness cells but for/and others as well. This/ that is very important so with time, energy from practitioner somehow is building up in the cells of the affected organs and whole body through proton pump and mitochondrial systems on cellular level, or similar mechanism, and persons feels like they are full of energy and happiness, ..., inner strength,..., so their focus, concentration, self confidence, etc., is high and the illness is simply "slowing down" and slowly "vanishing". The frequency of treatments and results (explained later in the text), are based on these mechanisms and are working with almost all kind of illnesses, even those from unknown etiology, and all time.

The other mechanism which is apparently taking place especially in acute cases, is that bio-energy is stimulating and doing above explained mechanism, or by some other mechanism is by-passing well known nerves pathways of pains, and instead through posterior ganglions in the spine, it goes through anterior ganglions of the spine, or other unknown to us at this stage, path/ energetic path via BEF/ auro-field, so bypassing crucial point and receptors of pain, it goes directly to reticular substance in the brain which is in charge of the pain and the pain is stopped instantly or after a while. Similar process is taking place for other symptoms with same positive outcome.

For support of above is example, good presentation in brief is given back in LIGHT Part One, from 1996 (Macedonian version, which unfortunately is not translated into English due to finance and lack of time other businesses...), where example and correlation with bio-energy as a QEEMR and depression and melatonin hormone/ system in the brain is explained from the view point of process similar to photosynthesis. Obviously bio-energy as QEEMR are doing "elimination" of electrons

from atoms , molecules etc., and are making molecules etc., active, so they are entering various reactions and causing (partial explanation is given above in the text), various substances and neurotransmitters to be active, so outcome of that processes are that we have various positive effects on somatic as well on mental level, in the brain, where these neurotransmitters are active, making “vanishing” of pains from various origin to occur, as well achieving calm, relaxed peaceful state of mind body and soul. In chronic cases wounds which are “reluctant” to therapy are/ were healing well with bio-energy therapy, pains or stomach problems disappearing, breath activity improving, as well circulation and among other depression is/was vanishing slowly and healthy condition is/was taking place again and persisted as such, both in acute and chronic cases. Above is based on 25 plus years working in this field of bio-energy.

In the previous part of this book it was mentioned that the CNS sends electrical impulses with very low intensity along the nerves, and that physics explains that every electrical flow is accompanied by an electromagnetic field. It follows that the capability, whether conscious or unconscious, to change the polarity of people towards an object indicates the possible existence of so-called telekinetic phenomenon in various forms

Because these interactions are without our knowledge, and are on an energetic level, and are occurring all the time between humans and environment as well, some phenomena coming out from the nature of bio-energy as QEEMR, also are occurring. Such as for instance, so called “**gut feeling**” . In this case reaction with similar to above explained mechanism is taking place, and from various reason bio-energy in some form is “reacting” with serotonin in the stomach area, and as a QEEMR i.e. light, is eliminating electron, making serotonin active.

From medicine, it is well known that almost 95% of serotonin is in the stomach, connected with gut feeling, but is not crossing brain barrier. So in this case with this/ above mentioned and explained interaction, mostly “ stomach” serotonin is activated and is causing various sensations/ feelings/ emotions, which are “translated” by person in its own way as good or bad, so with time he / she is experienced, it and knows what is connected to. That is why some/most of the people have some ability to “sense” something....

If the transmitters are in the brain area, then bio-energy is reacting with them (with above explained mechanism) so we have similar emotions, feelings etc. This depends on the fact and possibility if the receptors/ neurotransmitters, or similar active substances or energies, which are around that area.

In the process of reaction, “interaction”, transmitters are in the area of the heart, and is well known from medicine that in areas such as heart there are many neurons and net of neurons so-called plexuses, therefore plenty of neurotransmitters, (...this with heart is same with all system and body in general, i.e., in the stomach plexus there is a net of neurons and plenty transmitters such as serotonin,/ that is why in recent times there are special diets for various stomach problems such as irritable bowel syndrome or even obesity-treatments with serotonin..., stomach plexus is known as plexus solaris, and as explained plexus is net of neurons, therefore neurotransmitters ...and by

“chance” they are over/ under so called chakras energetic centers described by/from eastern traditions...), and in the area of heart these neurons are forming plexus known as plexus cardiacus, i.e., net of neurons around the hearth known as plexus cardiacus, (or known in eastern tradition as a hearth chakra- energetic place), than with this bio-energetic interactions, and described mechanism from above, than empathic emotions such as passion in various forms, or similar is happening....

Other phenomena are more complex and are connected with information carried by photons i.e. bio-energy so are explained in LIGHT Intelligent Creation. They are happening in the areas where such a neurons/ transmitters and interactions are / could be possible. That is why six-th sense is in relation with head/ mostly., or similar phenomena like telepathy, prayer & healing through “prayer” ..., as well as other phenomena with actions in various parts of the body....

In favor of the above, it needs to be mentioned that transmitting and receiving information from, and to the “mind”/body..., is achieved via quantum energy and electromagnetic vibrations/ radiations, which are “decoded” by the CNS., as they are received. Receiving the information, the CNS recognizes the condition of the object that has emitted the information- through information that is carried out by photons, which is same as it is happened, and is not mixing or changing under no/any conditions or by any other influence. Recent scientific evidence is in favor of this statement and also of what is/was written in LIGHT Intelligent Creation.

Enclosed is recent evidence of this statement:

Dmitry Budker of the Berkeley National Laboratory in Berkeley, ...
... June 25 issue of the Journal Physical Review Letters...

World Science on line:

“Standard model” safe as physicists can’t find misbehaving light particles

June 29, 2010

Special to World Science

If the boson-fermion dichotomy proved wrong, “the consequences would be far-reaching, affecting our assumptions about the structure of space-time and even causality itself,” said physicist Damon English of the University of California, Berkeley, one of the investigators in the study.

....The researchers set up an experiment in which the building blocks of light—which are bosons—were given some 10 billion opportunities to act in a way characteristic of fermions, but apparently never did.

Bosons are special in that they can all occupy an identical “quantum state,” a set of characteristics that includes location. As a result, for instance, any number of particles of light can be in the same space. Fermions can’t do this—which is why, since most ordinary atoms consist of fermions, it seems obvious to most people that two objects can’t be in the same place at once.... Similar conclusions about the boson-fermion distinction were reached by a 1999 experiment by scientists including the principal investigator in the new study, Dmitry Budker of the Berkeley National Laboratory in Berkeley. But the new tests improved the precision of the results by about 3,000 times, the scientists said, thus constraining the chance of bosons acting like fermions to less than one in a hundred billion in the system tested. The findings are published in the **June 25 issue of the journal *Physical Review Letters*...**



Feelings / Emotions- Presentation

Every individual has his or her own characteristic quantum-electromagnetic “spectrum”, which is decoded by their brain (Central Nervous System- CSN). A particular quantum-electromagnetic level/ state/ condition is most frequently experienced as a sensation, feeling or emotion. This is one useful basis for belief in telepathy, as the quantum-electromagnetic communication within the organism correlates with the existence of the so-called sixth sense explained above.

Human beings experience attraction (positive feelings such as love...) and repulsion (negative feelings such as hate ...). Between them are all others....

The strongest positive feeling is love, followed by feelings of mercy, compassion, friendship and so forth. ...

The opposite of love is hate and jealousy etc..., .., and are typical of negative feelings. (Kirlian photographs show similarities in how these feelings manifest, positive with strong good big auro field, and negative opposite of it....). The composition of the aura veers from negative to positive: it is intensified and is unique for two people in love, and there are similarities in the auras of happy friends or families. This is exactly in order with science (mentioned in LIGHT Intelligent Creation,- LIGHT IC), when two

beams of light have peaks in their maximums and they grow and are bigger, and lows in their minimums , i.e., when they are identical or similar they produce maximums and opposite.

So according to above statement the opposite of love occurs when the subjects feel hate or resentment, (more information in LIGHT Intelligent Creation), and manifests as a negative aura, low in intensity and quality with dark fields- minimums, (more in the Light Intelligent Creation from the aspect of subatomic physics and particles i.e., energies).

People who are in love or are of good mind/ mood..., (friends, lovers...), are more happy and healthy than those who lack such emotions (and are negative). The positive feelings and interactions lead to an enlargement of the aura, in a natural process of self-regulation on an energetic and, subsequently, a physical level. This tells us that there are interactions on energetic-quantum electromagnetic levels, even without our being aware of them. These interactions are experienced as feelings, and any failure of the subject to apprehend their origin as a bio-energetic interaction indicates only a lack of understanding them, and as well self, not that the feelings themselves are not valid or do not exist. It is this state of consciousness that is the real language of the universe, compared to the crude everyday communication. Our everyday way of communication-our speech, is very rough and “cruel” in relation to our feelings/ emotions, which are very sensitive and are real language of us, and the universe as well, and all around us, as a bio-energetic inter-actions/ reactions.

The state of our life-field is the main reason for our success and failure in communication and relationships. Bio-energetic interactions can be said to be our universal language. When similarities in the bio-energetic spectra of people, objects, plants or animals exist, their aura fields are enlarged and pleasant feelings ensue. These interactions, which may occur unconsciously through a feeling of sympathy or dislike at first sight, partly create our lives and destinies (as explained by the Jung synchronicity).

Opposing bio-energetic spectra cause a diminishing of the life-fields, which leads to unpleasant feelings or negative relationships. If continually repeated and not rectified, this can lead to the erasing or damaging of the life-field, leading to nervous disorders and psycho-somatic illnesses. Accordingly, these unpleasant feelings are to be avoided. (More in LIGHT IC).

In summary, the characteristics of our minds, feelings and desires are fragmentary creations from the quantum-electromagnetic bio-energetic spectrum. So they can be positive, negative or neutral. The recovery and decoding of the negative quality leads to unpleasant feelings, whereas the relation of positive feelings is inversely related to the surroundings, that is, positive feelings gave rise to pleasant feelings. This principle/mechanism correlates with the experiment, mentioned earlier, in which light was passed through one or two openings and projected onto a screen, with minimums and maximums giving bright or dark stripes. (LIGHT Intelligent Creation). The minimums, which were annullating themselves (e.g. bad feelings ...), produced the dark lines, while the maximums,(e.g. good feelings...), which were adding on to each other, produced the bright lines. This process is most likely same with people and everything

else in the Universe so that is why Bio-energy Science should be understood as a Universal Science and bridge towards unity of faith and reason and therefore mankind in general.

In addition, and supporting this principle, it was noted that, when clients came back for further bio-energy treatment even months or years after their previous treatments, the time needed to achieve positive results was shorter than the time needed during earlier (first) visits. It was as if the organism somehow knew and was prepared for the improvement.

Apart from above explained mechanism, there is also a physiological explanation for changes in mental states including memories, memorizing etc. More info in LIGHT Intelligent Creation.

Information in the mind is saved in the form of nucleo-polypeptide chains, and can likewise be released. This is how we learn and remember. So nucleo-polypeptide chains provide storage of the information we have learned, as confirmed by investigations carried out by Fritz-Albert Popp (mentioned earlier)..

Their release occurs by means of bio-energy as quantum-electromagnetic radiation, which we experience in the form of various emotions. In cases where we recall events or people, the associated feelings that occurred in the past are again released (with the same intensity and quality). All of this discussion helps to illuminate how feelings become materialized through the CNS. (Above was explained the mechanism of this, there is still a lot of work to be done regarding this from bio-energy aspect, because memories are probably linked with energy too, as well as with structures of the brain and possibly with any other body part, connected with DNA...). ...



Human spiritual needs- presentation

*practical & theoretical explanation & presentation of the
need of prayer as our central & main spiritual need*

(PERSONAL EXPERIENCE)

Regarding prayer one can say that is universal spiritual “need”/ manifestation of the inner spiritual “need” of humans regardless of time and space distance. Prayer is present in human societies from early time until now and will be there for ever & ever...

What is important, according authors experience of the book LIGHT Intelligent Creation (LIGHT IC), i.e. Light part one and Part Two, is that author himself around time when day was becoming night, and night was becoming day, not strictly sunset or/& sunrise, but moment when those day/ night circles were changing and “entering “ each other even before sun was there, when day becoming night and night becoming day-. so around that time, there was/is within inner being very strong desire to pray, to **yell in the inner self (find more explanation in the text below)**... and similar explanation which are connected to previously explained meditative state, in Part one and Part two, of the books Light, so meditation/ prayer

is present in the same form and time in almost all major religions and this explanation is to give scientific foundation, background and direction for further study of this extraordinary & fundamental phenomena, and present scientific point of view of the author, supported by recent scientific study from Japan. More below in the text.

Knowing that almost all religions & faiths, & traditional faiths as well, are making and going/ doing/ practicing the meditation/ prayer and entering this noble / extraordinary good state of mind, body & soul, (... in early hours of the day and night so to say...),, as well in latest hours of the day before night i.e. prayer as inner longing for something in/ or / & beyond this reality lets' say, because there are no words known to humans to explain this process and phenomena, So in other words this is not only something that religions are forcing to believers to do somehow with intentions or secret agendas, but is pure natural spiritual/ energetic/bio-energetic need of every human person/ being on Earth. This is of great importance with the fact that knowing this and study it, we can enter a new era of spiritual awareness and spiritual progress, so there will be no more faiths for religious liberty/ rights, but this will be normal process that every one should be allowed to practice for helping self and society as well. This is ground breaking knowledge and discovery so it should be treated with extreme patience, care and love.

The Author

Dr. Vasko M. Najdovski

25.12.2010

PS/ NB

In these paragraphs the term/ word "YELL" is used to explain the strong desire of one who is about to pray for various reasons, but this word might be misunderstood so the author feels that there is a need for putting light and to give some explanation apart from what is written so this word and this magnificent natural phenomena is not misunderstood.

Let me begin with word "...TO YELL IN THE INNER SELF...". This word YELL is close . as it was explained partly in the publication/ book LIGHT Intelligent Creation, as a " *longing*" / praying/ meditating..., for something out there, like other part of this being in energetic form, ...God, or other being as a friend, lover, relative, parent, brother, sister etc., & that out there & is existing, like love for someone who is miles away but

can not be seen, and there is a strong desire to send a "message" about how one feels, HOW HIS INNER BEING IS SUFFERING FROM BEING ALONE, AND LIKE A PART OF HIM/ HER IS TORN APART AND NOW WANTS TO BE TOGETHER FOREVER... SO THIS "YELL" COULD BE EXPLAINED IN THAT WAY PRECISELY OR ALMOST PRECISELY WITHIN THAT FRAME OF EXPLANATION with poor vocabulary at this stage because, as was mentioned earlier, there are no such words to describe true feelings / emotions of humans who are feeling/ suffering from that same feeling..., and through the prayer is/ are sending "messages" to whom it might be addressed and one - recipient of that "yell" is being, if not wholly, but partly conscious about/ regarding this state of one-other human being as he/ she is feeling the same emotions/ feelings too, or maybe God is One who is collecting and feeling and simultaneously answering all these calls/ yells in positive sense of meaning, and the person feels relive....

So that is about the word YELL ..., in the context of process of prayer, and explanation in very brief precise/ almost precise manner and path about word yell/ inner yell, with aim not to be misunderstood, or twisted or..., anything in negative form of meaning. ...

In the Light IC There is reference to /for/ about this sort of yelling and inner longing to express one self with prayer towards nature, towards God, or/ and towards loved ones, which are at times far away... and that is like tradition from the beginning when humans were hunters & gatherers and used to live in such societies, and maybe this was true language at that time, (like animals are maybe understanding each other through some sort of telepathy, but not crude explanation of the meaning of that very manipulated word, but soft, pleasure meaning of that word, when/ where emotions are sent like thoughts, like images of ones state of mind body and soul and the "other" is fully and completely aware of it, and there is no mistake, no misunderstanding, and no need for tens and tens of written pages to describe one's state of mind, body and soul, which feeling last maybe only a fraction of time, or longer, but is beautiful and maybe sad, happy, but noble, gracious .., it is hard to describe its' beauty... so lets just say in this moment: ..."sent" emotion/ feeling/ "yell"... full of joy and happiness, or sadness but impregnated with happiness that the other part will get it, will know it..., and that there is one who is care and who is close to us, and we know that is other part of us without whom life has no sense and meaning, and that part is God, in the form of other person as lover, relative, friend, parent, brother, sister

etc.

That is explanation of this word "yell", or is explained close to it, but even if I spent all night writing and thinking about it, there will be something there always missing and always waiting to be written all over again and again and again.. like a never ending story... so let's just stay here with this explanation for each of every person on earth who will keep it and wonder or/ and adding what is / was missing in this explanation but is his/ her personal belonging through this journey called LIFE... so time of increased awareness & wonder has come ..!

Dr. Vasko M. Najdovski

25.12.2010



Discussion

Results show that in most cases, significant improvements can be achieved through bio-energy therapy. In particular, it has shown itself very applicable to relieving pains, located in part of body or whole body in general- stiffness, nervousness, respiratory ailments, circulatory and stomach problems, or problems with un-known origin. For some groups of diseases, the following general results were achieved:

- arthritis, migraines, RSI, lumbago, injuries., and similar pains— very good results are derived. Pains and stiffness disappear almost immediately or in a short/ variable time (depende of the stage of the illness etc.), and improvement in mobility is obtained;
 - general physical and mental comfort is realized, overcoming stress, depressive problems, anxieties and nervousness;...
 - cardiovascular conditions — reduction of high-blood pressure, improving some angina problems (chest pains) was delivered, shortness of breath was improved, improved of condition, longer walk without getting tiredness and similar was achieved; also some wounds resistance to classical therapy, even gangrene were improved;
 - respiratory conditions — improvement in breathing was achieved; infections were “shorter”,
- and
- abdominal and digestive problems — pain and discomfort from various origins was alleviated, and function improved....

No precise quantitative results were presented, mainly that/ and such work progressed and is progressing with good results over the years, and continuing

Collaboration, follow up..., is needed to provide more accurate diagnosis, ..., and follow up of improvements after treatment for longer periods of time. Because of this, no final evaluation re: specific areas of interest in medicine is possible yet, even over the years, the positive effect described in this publication remained the same as they are described, and are even better. That is why nothing is changed in this updated version regarding that issue! So it is up to the medicines\faith and reason and other well-respected institutions to do their job

The author is not aware of any previous use of bio-energy therapies in Australia, nor is aware of this kind of research anywhere in the world by anyone in this area to be done and completed.

It should also be noted that the patients treated had various ethnic origins and religious beliefs.

Rather, what can be stated is based on the scientific fact based and proven assumption of a life-field (a quantum-electromagnetic field), and on the fact that bio-energy treatment is performed without or with just partial physical contact in the form of soft touch and only when necessary (in severe cases, or where the auro-field has been “erased”, or similar). In other words, the scientific assumption postulates the balancing of the life-field and improvement of health condition is achieved by means of the quantum and electro-magnetic “superiority” of the practitioner. This term is used because there is no other similar and close to this term to explain the bio-energy therapy and practitioner, and not to interfere with something else, words/ terms etc., that could misinterpreted many things and be misused for various reasons and interest by many. So it is up to the science and religion to find appropriate terminology for standardization of this noble and useful practice for benefit of mankind. The fact that pains, nervousness and similar symptoms disappear almost immediately strongly supports this theoretical presentation.

A further assumption is that the interaction of life-fields depends on human feelings, so that the sharing of feelings such as love and friendship leads to the enlargement of the life-field and an improvement of health; conversely, negative feelings lead to depletion of the life-field and worsening health (confirmed in Kirlian photographs, only “instrument” available at present and probably from bio-energy point of view is connected with “wave” characteristic of bio-energy as QEEMR, but not “radiation” which is probably the same but somehow different, so other more sophisticated instruments and technologies must be “done” for understanding properly “wholeness” of this noble practice and “phenomenon” for benefit of mankind- for common good!

This theory encompasses not only scientific experience but also the basis of religious experience, the value of human life, friendship, love and tolerance. It also gives scope for the further application of the bio-energy, as follows:

- medical treatment of people with bio-energy (including acute and chronic cases);
- early detection and prevention of diseases by means of bio-energy applicators and detectors;
- minimizing the economic impact of illness in the workplace and the demands placed on the medical establishment;
- addressing criminal tendencies to improve human relations (via bio-energetic detectors, and education about bio-energy science);
- enhancing relations between faith and reason i.e. science and religion;
- environmental analysis (using bio-energetic detectors based on principles similar to the Kirlian photos in combination with MRI) in geo-biology, agriculture, marine, space industry, food industry etc...; and
- understanding and improving human relations with the humans and environment.

Note

Earlier presented results are from research done in 1992/'93 and no new entry has been done simply because all these years while practicing bio-energy therapy in continuation, everything remains as it is presented here than, and is the same now. All these years, up to now, i.e., July/ August 2010, results and everything described here is/ are/were same, even better in some cases, because of various reasons and probably better insight into this process, so presented in this final draft is true picture of effect of bio-energy on unhealthy conditions in human body. Those files are kept with confidentiality.

In regards to above, it needs to be added, that after the initial research and publication of the results from 1988/89- 1991/ '92, double check-up was done in same city (Melbourne), but also in different city, i.e., Sydney, Australia, so to avoid any suggestible effect or similar form of interaction that might affect outcome of the bio-energy therapy. It must be pointed out that during the period from January 1992 to April 1993, more than 383 people were treated with bio-energy therapy over the course of more than 1020 visits, achieving results almost identical to those published from 1990/'91, based on statements by people who had been treated one or more times. Also, has to be pointed out that almost the same results are achieved nowadays following/

investigating/ researching long term impact of bio-energy therapy on humans, and analyzing how it works, especially regarding frequency of therapy for achieving optimum positive therapeutic result in acute and chronic cases, which is achieved with positive outcomes, and explained in the text below, same as it was stated in 2008. This is extremely important and almost all major factors for good positive outcome and professional use of this therapy method within the system are done so is highly recommended in acute and chronic cases of sick conditions in humans (but also in pets...), in outpatient clinics and in the hospitals, under supervision of medical doctors, for / in therapeutic purposes of unhealthy conditions...

The photos that follow reflect the original technology available in the 1991-92 period and so some may appear of poor quality.



Figure G

Left Electrophotograph, intact leaf.

Right Electrophotograph, ripped leaf.

T. Moss and K. Johnson, *The Kirlian Aura*, edited by S. Krippner and D. Rubin

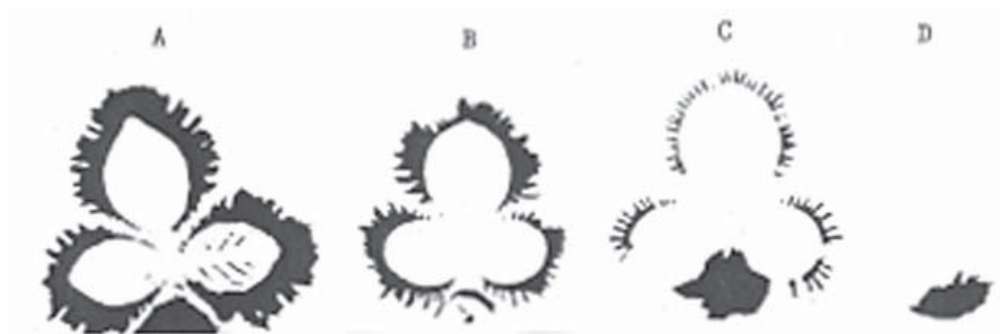


Figure H

Electrophotograph, rose leaves, 15 second exposure.

A: Immediately after leaf was picked; B: After 7 hours;

C: After 14 hours; D: After 21 hours.

J. Hickman, L. Amos, K. Krumsiek, *The Kirlian Aura*, edited by S. Krippner and D. Rubin



Figure I

Electrophotograph of 'phantom leaf'

H.G. Andrade, *The Kirlian Aura*, edited by S. Krippner and D. Rubin

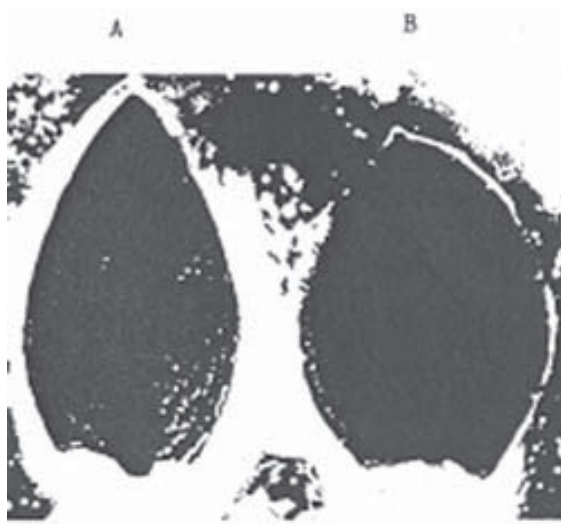


Figure J

Example of transfer interaction between a freshly picked privet leaf (A) and a dying leaf picked 24 hours earlier (B).

D.F. Milner and E.F. Smart, *The Kirlian Aura*, edited by S. Krippner and D. Rubin



Figure Q

Electrophotograph:
healer's finger at rest.

E.D. Dean, *The Kirlian Aura*, edited by S. Krippner and D. Rubin



Figure R

Electrophotograph: healer's finger as she thinks of the healing process.

E.D. Dean, *The Kirlian Aura*, edited by S. Krippner and D. Rubin



Figure S

Electrophotograph: healer's finger during the healing process.

E.D. Dean, *The Kirlian Aura*, edited by S. Krippner and D. Rubin



Additional Research (1995/'96-2010/'11...)

In addition to what has already been shared about research undertaken in the periods 1988-1991 and 1992-93, i.e. 1988-1993, it is important to note that from 1995/96, and especially August 2006-June 2007 and (during re-testing) July 2007-January/October 2008, more than 200 clients were treated using bio-energy therapy, with continuity until now- July/ August 2010, and almost identical results (if not better in some cases) were achieved to those recorded from 1988-1993.

Additionally, it must be noted that over the years the ability of the practitioner conducting bio-energy therapy decreased, and treatments drained more energy than before. Also, in some instances more time was needed to achieve the correct state of consciousness needed to conduct the process of bio-energy therapy, while fewer sessions were conducted during the day than before because of "mental"/ "spiritual" or similar tiredness in body and "soul".

During this period of treatment and research, extra attention was given towards people's health in the long term and the way in which treatments were conducted i.e. to find "formula" of frequency of treatments for optimum positive results. Considered was the frequency of treatment needed for achieving recovery from illness for maintaining good, healthy and improved/ stable- free of ill symptoms conditions; so the goal of this second part of research was ensuring that symptoms of illness did not recur in longer period of time/ or forever, and the way how to achieve that. It was noted that some

severe cases needed more frequent treatment, ranging from several treatments a day to **two or three per week** (this way is how the bio-energy therapy is conducted usually even now), in order to achieve and maintain recovery. But patients whose illnesses showed less severe symptoms required less regular treatment. As a patient's health improved, the number of treatments was reduced, and when healthy conditions became settled for some period of time, treatments with bio-energy were decreased slowly. For instance, if a client had three treatments a week, this would be reduced to two, then one, followed by a pause of a few days or weeks to a maximum of three weeks. This was based on the observation that a longer cessation in treatment could wipe out the energy gains and lead to the client's remission.

If, after taking a break from treatment, the client's well-being was stable, then after one or two further booster treatments, the therapy would cease, with advice to come back if there was any deterioration. Usually, clients never returned, or did not return for long periods of time (months or years...), because the healthy conditions were indeed stable, and those who did return usually were seeking treatment for other, different and unrelated to previous concerns. With this method, then, results from very good to excellent were delivered. Therefore this sort of **bio-energy treatment is strongly recommended**, for use as a therapy method in clinics as well in hospitals, in cases of "emergency i.e. acute problems as well in chronic cases, in hospitalized clients/patients, for/ in short, long and chronic cases, for all sort of sick conditions as well those with unknown origin of unhealthy conditions -at least until more knowledge becomes more widely available for same, and in/ for bigger institutions capable of doing long-term research with / where more sensitive parameters are engaged for getting more knowledge and insight into this magnificent good natural occurrence for common good for all on this planet and elsewhere.

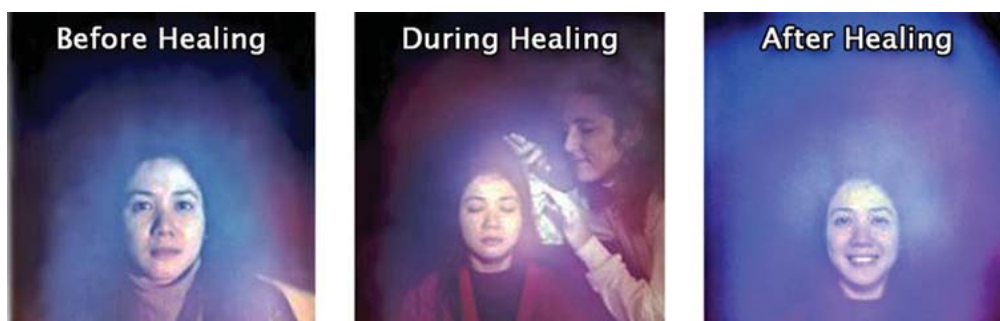


Photo: Auragraph Research Centre, Progen Aura Imaging

The assumption throughout is that people who received bio-energy therapy were capable of regenerating themselves with the extra energy received from the practitioner. Following that principle, it was noted that clients who had no specific health problems were also treated and they reported an improved state of well-being, in the sense that having received pure energy they found themselves to be fresher,

happier, and more energetic, relaxed and self-confident, with more focus and concentration, coordination skills, and ability to learn more, with increased self confidence and self esteem etc.

It follows that this kind of treatment is not only for sick people, but is recommended for healthy people, too, mostly those who have stressful jobs and lifestyles, or who need more energy for sport or other activities.

No side-effects or other problems were noted all this period of time, 25 plus years during bio-energy therapy treatments.

So to summarize, bio-energy is highly recommended both as a therapeutic method for the sick and also as a kind of 'power nap' for healthy people.

An important footnote to this conclusion is that practitioners must have some basic medical knowledge or, if not, should work under the supervision of a medical doctor.

Also is it is imperative for practitioners who already have this kind of "talent" to have shorter or longer courses in Bio-energy science, both theoretical and practical. To prove that one has talent for bio-energy therapy with positive outcome, he/ she needs to prove it on sick persons under supervision of medical doctors and if improvement is proved and confirmed, than the practitioner could get certificate and work in health institution in the area where his expertise is good, or in all areas if he has universal ability to help people, not just one or two areas, eg. helping people with vision problems only, or injury but not other problems or vice versa, and similar to it, or have ability to deal with almost all problems all time any time.

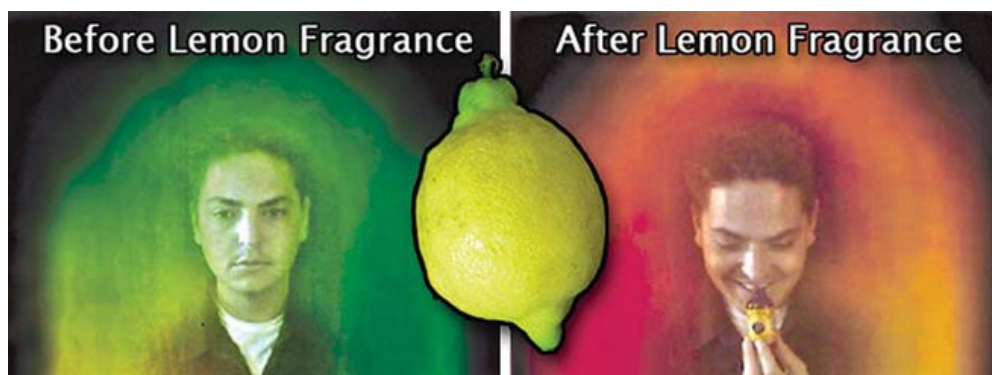


Photo: Auragraph Research Centre, Progen Aura Imaging



Photo: Auragraph Research Centre, Progen Aura Imaging



Photo: Auragraph Research Centre, Progen Aura Imaging

Contrary to perceptions that this sort of treatment or healing carries a mystical or New Age context, it should be noted that only a very small percentage of patients (less than 1%) were ‘referring’ some of the problems to a ‘spiritual’ dimension and their treatments were same as the others, but with a different ‘flavor’ — which is difficult to explain — however, nothing special or extraordinary “visible” happened during these therapy sessions. Even though this percentage is small, it is important where appropriate, to consult official religious organizations for advice (and study as well), keeping in mind that for many centuries these sorts of phenomena were in their

domain. Even those clients who attended “and are in these groups” were treated successfully with no problems at all at the end of the therapy.

When patients returned after some time for refresher treatment or to present a condition other than the one previously treated, they were observed to appear healthier, happier and more energetic than before their initial bio-energy treatments. The assumption is that bio-energy therapy, as a quantum-electromagnetic touch therapy, is somehow ‘working’, repairing or cleansing cells and organs on a macro and micro level, and also on a genetic level (within the DNA).

Dr. Vasko M. Najdovski

07.01.2011

Update:

During the period of 2010- 2011 bio-energy therapy was conducted on few clients separated in two groups, both with depressive symptomatology. On clients from first group therapy was conducted over head only, while on clients from second group therapy was conducted over head but also over the back, chest, and to some of them, who were very low with energy, also over the stomach and over both legs. This was done with aim to expand area over/ through which bio-energy was applied, so more energy was entering the body system. While both groups had good positive results explained in the pages before, the second group which was treated over back, chest, stomach and legs areas, they have more/ significantly positive results and faster recovery results than the other group. So it was concluded that amount of energy, in some cases where energy levels were very bad/ low, given over vast areas of the body has significant effect on the outcome and is directly correlated with it i.e. more energy via various regions, better results were achieved.

Updated:

07.08.'11



Chapter 6

Conclusion



In the previous pages, bio-energy was presented as a self-created, selfconscious, multi-dimensional intelligent creation — something that is a self-created and omnipresent primeval matter, omnipotent, transcendental, memorised, bio-holographic, self-conscious, and a quantum energy electromagnetic form of existence in ourselves, around us and in the universe. Some similarities in structural and functional regulations between the universe as a macrocosm and us as a microcosm were presented. These explanations were made from the modern scientific point of view, particularly quantum physics, astronomy, astrophysics and so forth, as well as from the perspective of generally accepted and established religious thought, covering the opinions of most religions, theo-philosophical teachings and other institutions and faiths on the planet. It was concluded that there are theoretical possibilities for explaining these phenomena — natural occurrences from the bio-energetic aspect — as well as grounds for exploiting them for the benefit of the general public.

Considering the good therapeutic results of bio-energy and the subtlety of the phenomenon, there is a real possibility for exploiting this very safe and effective therapy with acquired knowledge and to incorporate it into the existing educational system to construct bio-energetic detectors or applicators. These can be beneficial for people with a range of diseases as well as for healthy people too.

In this context, humankind's emotional life is too important to be left uncontrolled or to be replaced by another cold, repeated, computerised (virtual) professionalism. That will not nearly enough mirror the beauty of a natural, emotionally well-balanced life. For friendly dialogue between individuals to occur, faith and science can bring back humanity among people and their lifestyles through meditation and prayer, together with healthy diets and mind or body exercises.

One of the points of this text, and a pledge in general, is to realise ourselves and leave positive memories and pledges full of light and grace, friendship and forgiveness. Because only in this way will our memories be eternal, an everlasting zest that will warm the hearts and souls of future generations. Everyone on the planet, in their own time and space, should try to leave what he or she thinks is the best and the most useful, or likes most to leave in legacy to their closest and dearest, and especially to the younger generations, as a result of the desire/love in the moment of their greatest love towards their beloved, in the moment when the soul longs and aches to see the loved one, when the soul and the heart yearn for that loved one. This moment should be carried in memories and good things in a positive sense should be left for the dearest ones, as a legacy, as an eternal beacon, as an unfulfilled beauty, as well as a memory trace of what that person feels. It is the most valuable thing for which even life, as the most sacred thing, is worth spending. The longing of the soul is irreplaceable and this spiritual yell has no end, no nadir, and is as infinite as the universe. In this sense, the saying that Man's eye is omnivorous reaches its expression because one can attain a spiritual satisfaction not in material things but only in the energetic and the spiritual. That is why humanity can develop a better future where everyone's identity can be cherished.

Humankind should postulate a revision of some rules and regulations according to which thought and actions were guided up till now, and this by the direct insertion of bio-energy into the system of education as well as gradually both by science and religion. Although invisible and gradual, this change is needed. For example, in the physiological sphere, apart from other things, there is the possible existence of mechanisms or centres that are in command of some telekinetic automatisms present in our everyday life and connected not only with our motor activities but also with our Gnostic cognitive processes, or more precisely, with remembering and forgetting. If they do not function, then various cases of paralysis unclarified by medicine might arise. Telepathy and other bio-energetic phenomena could be used to clarify this and could thereby be used for our benefit. The phenomenon of telepathy, as was stated earlier, is based on a bio-energetic interaction with the individual that transmits such information. The receiver's analysis and detection of them completes a telepathic process. This scientifically explained principle can be used in our everyday life in various spheres, even in communicative technology, as well as in creating a universal system of communications, artificial intelligence and quantum computers.

Scientists steer car with thoughts

Feb. 21, 2011 Courtesy of Free University Berlin and World Science staff

You'd better not let your thoughts wander if you drive using a new technology from the Free University of Berlin. Computer scientists there have developed a system to let people steer a car with their thoughts. Using new, commercially available sensors to measure electrical brain waves—de-vices called or electroencephalograms—scientists learned to tell apart one person's brain patterns for commands such as "left," "right," "accelerate" or "brake." They then created an interface to connect the sensors to their otherwise purely computer-controlled vehicle.



A driver tests out a brain-controlled car at Berlin's for-mer Tempelhof Airport a video posted on YouTube. (Courtesy Autonomos Labs)

Although the machine needs some work and certainly has its drawbacks, its developers insist it could become one option for the transportation of the future. The brain-driven buggy was tested at the site of a Berlin airport that closed down two years ago, Tempelhof. The researchers first used the sensors to measure brain waves in such a way that a person could move a virtual cube in different directions with the power of his or her thoughts. The test subject thinks of four situations associated with driving, such as “turn left” or “accelerate.” In this way the participant “trains” a computer to interpret bioelectrical wave patterns emitted from his or her brain and to link them to a command that could later be used to control the car.

The computer scientists connected the measuring device with the steering, accelerator, and brakes of their automobile. The driver “was able to control the car with no problem—there was only a slight delay between the envisaged commands and the response of the car,” said Raúl Ro-jas, who heads the Autonomos laboratory at the university. In a second test version, he added, the car drove largely automatically, but the driver was able to set the direction at crossings.

Not only medicine and its branches such as psychiatry, psychology and physiology would undergo revision, but also it is most likely that fundamental precepts from the sphere of ethics as well as the legal and legislative world system would then need to be revised. Fundamental issues such as those that deal with consciousness, intellect, spirituality, space, time, energy and matter — as well as by the moral standards essential for our existence — will mean a conscious upgrading and outgrowing of man himself. This calls for nothing less than a ‘balanced soaring’ from materialism into a balanced spiritual development. In that sense, the term ‘evolution’ would be extended in order to be understood, so that evolution can be seen as a continual and endless process with its own creativity, just as bio-energy has its own creativity; these therefore being two processes that are going hand in hand forever, one very short – creation, and the other very long- evolution, which leads towards creative evolution therefore this publication into introduction and basics to, among many other things, towards **creative evolution theory**. At this level of development of scientific and religious thought, we cannot claim that something has an evolution but not a creativity, and vice versa, when both processes, in the case of bio-energy, are almost one thing — continuity. Namely, bio-energy as the creator and creations evolves and therefore it suffers and is a product of, and a source of creations with consecutive evolutions. If, by analysing it, we can get to the foundations of DNA and, if we analyse evolutionary processes, we can see that in order to have an evolutionary process there should be a change in the genetic structure of the carriers of that DNA, at least on one genetic letter only, on the basis of received memorised information from the environment, information that changes in order to protect itself and adapt. That means that there is creativity as a result of a new beginning and this creativity gives a direction for the future development of individuals who adapt to a new life, following by evolution.

We live in a time when peeping into the structure of DNA is possible, and we can draw more daring conclusions about our survival in so doing. Consider the recent discovery by scientists of the University of Chicago Medical Centre (USA) in the research *Public Library of Science (Biology)* (March 7, 2006). According to Jonathan Pritchard, one of the scientists conducting this research, Man's evolution is still going on. The Chicago team discovered genes that have been going through changes for the last 10,000 years, and that will continue to undergo changes in the next thousand years, first of all because of new habits, climate change, agricultural development, diet and so on. Examples are the gene of mutation to lactose tolerance, the gene of salt, and the sensitive gene of high blood pressure. In fact, evolution is creativity and vice versa. What was memorised and learnt from our surroundings is materialised by the DNA itself, by the very bio-energy that endures and is a source of changes in order to protect the carriers — both individuals and groups. In that case it is not difficult to understand the teaching of those religions that preach not to eat certain kinds of food or drink certain beverages. Although our knowledge from the genetics sphere is not sufficient, these messages are to the point. In the Muslim world, for example, it is forbidden to eat pork and to drink alcohol, so as to protect oneself from the sun and dryness. Likewise, wearing white comfortable clothes in regions with hot climates is more than wise, above all for health reasons. It has been discovered that some Asians have been developing the gene for tolerance to alcohol, which means that they were handicapped about it, so considering this and many other things, from this point of view, these messages, teachings and practices are wise and practical.

A great challenge posed for science and religion is the question of the effects of the potentially planned changes in genetic structure caused by DNA's actions on aims that are important for the individual as well as the collective. In what way is DNA in contact with itself, with the organism to which it belongs, with the surroundings and the collective that belongs to it? What enables DNA to know what is going on, what is required and what should be done for the improvement of the individual and the collective? There has to be a connection with the universe, in other words, with microcosm and macrocosm and how it manages to decode, analyse and realise progress. In other words, how can DNA become a creator of creation that is prone to evolution and all in that sense without end?

As a message and a basis of a teaching, this major theme is realised by a generalist approach, by analysing the messages of the all holy books, above all the Bible which is the most widely used and "open" for common needs, and it is further qualified and upgraded by recent discoveries in the domain of modern scientific thought. From all this we can conclude that, in general, the messages of the holy books are good and their interpretations are liable to further analysis. Nowhere in these books is an example of possible genetic engineering or similar manipulation upon people suggested.

At critically important moments for the survival and development of mankind, such as at the creation or the great flood, nothing new or on-going, from today's point of view and with current scientific knowledge, was suggested other than the natural path of development and reproduction of people, individual and societies. Namely, if we generalise these teachings and messages, we get an impression that somebody, in some way, has protected the creative evolution of humanity and traced it in a natural way. This is very important to know, especially now, when Man has taken his development into his own hands, so that a new Atlantis may not happen from possessing nuclear or other kinds of weapons and similar technologies, but from the struggle for profit and creation of more and more new experiments in almost all fields, especially manipulation of DNA, and a struggle for the new. By challenging our own human endurance to the limit and saying good-bye to the natural rhythm that has kept us alive for millennia, people have been eroded from within, deferred by artificial, trendy pleasures. In order to prevent this happening it is very important to create the science and establish new norms in each corner of our everyday life, so that mankind can be protected from itself and continue in a healthier, more secure and more responsible development. In all this, the crucial component is dialogue among faiths/religions and science, as gatekeepers of ethics, healthy lifestyle and morality.

Through bio-energy, organisms as individuals as well as collectives, build their destinies and paths of evolutions by various creations. Bioenergetic interactions as emotions are the true language of the universe, in other words, a vocabulary and a language of the inner world of DNA that understands the world through them and, with their eyes, builds their reality. Thus it becomes clearer how bio-energetic interactions, the emotions of love, are the language of this world, in this case, a vocabulary or language of the DNA of organisms. It is known that organisms like mice, on the basis of some radiation by DNA, make selection regarding their partners and with that their heredity. In a way they make selection on the basis of their feelings, yet they also choose those partners that most correspond with their DNA so they can have a healthy heredity.

This puts animals ahead in this area from where humans stand, and as was stated and elaborated in earlier editions, humans which are more "intellectual" and open minded, more open towards outer self, so as was stated in earlier parts of this publication, again we can conclude that humans could and are finding ways to use every potential for their own benefit, so in this case could use, and will use these potentials present in animals, especially in man's best friends- dogs, and use their ability for "diagnostics" of DNA malfunctions/ malformations for our own benefits and diagnostic purposes, as was stated in earlier edition of LIGHT Intelligent Creation and its' previous versions in Macedonian language. Below is proof/ truth of that statements.

Prostate cancer joins growing list of cancers dogs could sniff out

Feb. 9, 2011 Courtesy of Elsevier Press and World Science staff

Trained dogs can detect prostate cancer by sniffing patients' urine, scientists have found. Scientists are increasingly interested in the ability of man's best friend to catch the scent of chemicals that give away the presence of cancers in early stages, when they are more easily curable. Past studies have reported on canines' ability to sniff out lung and breast cancers. The new study, by Jean-Nicolas Cornu of Tenon Hospital in Paris and colleagues, followed up on proposals that ingredients of urine known as volatile organic compounds may serve as signs of prostate cancer—the third most common cause of cancer deaths in men, according to the U.S. National Institutes of Health. The disease begins in the prostate gland, a walnut-sized organ next to the urethra, the tube that passes urine out of the body. Cornu and colleagues trained a Belgian Malinois shepherd dog over 24 months to smell and recognize urine of people with prostate cancer. To standardize urine samples for the study, all samples were frozen for preservation and heated to the same temperature. The dog's ability to discriminate urine from people with and without prostate cancer was assessed in a double-blind test, researchers said, in which the experimenters themselves weren't told which samples were which. The urine came from 66 patients referred to an urologist for showing warning signs of prostate cancer. Only half of the patients turned out to actually have the illness based on a biopsy, while the other half did not. The dog nosed out the samples and correctly recognized the cancer samples in 30 of 33 cases, the investigators said, reporting their findings in the February issue of the journal European Urology. One of the patients that the pooch "incorrectly" pegged as a cancer case, they noted, did in fact turn out to have cancer based on a second biopsy. The specific compounds giving off the tell-tale scent haven't yet been definitively identified, the researchers noted, but the canine research could help to clarify this question and help develop yet additional screening tools.

Above mentioned "selection" is nothing else but the creativity of DNA, and even more specifically the creativity of bio-energy. This can happen to other organisms as well as to humans, just through love.

The results of studies conducted by Rob Burriss and Anthony Little of the University of Liverpool (UK), showed that during ovulation women were more active in their relations with men, were attracted to more virile men with better social standing, and in a sense followed the opportunity to get what they wanted. The women were attracted to men with a more virile voice and smell, and in this phase the men were also more aggressive and more jealous towards potential 'rivals' with whom the women were more inclined to have an affair. From a bio-energetic perspective the importance of recognising this is in helping to avoid temptation and sustain the family, as noted in *World Science* (May 2, 2006).

Male and female chromosomes do communicate with each other

ANI 11 September 2009, 01:41pm IST

WASHINGTON: Scientists in the University of Leicester's Department of **Genetics** have for the first time revealed that the male and female do truly communicate, at least at the fundamental genetic level.

The research counters scientific theory that the X and Y chromosomes - that define the sexes — do not communicate at all.

In the study, Dr. Zoe Rosser and colleagues have shown that exchange of DNA does actually occur between the X and Y in the regions previously thought to be completely isolated.

"Recently it was shown that the Y chromosome can talk to itself - swapping bits of DNA from one region to another, and potentially giving it a way to fix mutations that might affect male fertility. In this new research we've now shown that it actually maintains a genetic conversation with the X chromosome, potentially giving it a way to fix other kinds of mutations, too. So, maybe it's not quite the dysfunctional loner we have always imagined it to be," said Professor Mark Jobling, who led the study.

It is the Y chromosome in men that determines maleness by triggering development of testes rather than ovaries in the early embryo.

"These days the X and Y are a very odd couple, but long ago, before mammals evolved, they were an ordinary pair of identical chromosomes, exchanging DNA in a companionable way through the process of genetic recombination. However, once the Y chromosome took on the job of determining maleness, they stopped talking to each other. The X remained much the same, but the Y set out on a path of degeneration that saw it lose many of its genes and shrink to about one third the size of the X. Some scientists have predicted that it will eventually vanish altogether," said Jobling.

"These new findings from the Department of Genetics of the University of Leicester now

challenge this interpretation of the Y chromosome's fate," he added.

The researchers discovered that the conversation between the X and Y chromosome goes both ways, and it is also clear that mutations arising on a decaying Y chromosome can perhaps be passed to the X - the Y chromosome's revenge.

- *In future, the researchers will assess how widespread X-Y exchanges have been during evolution, and what the likely functional effects might be.*

The study has been published in the American Journal of Human Genetics.

In conclusion, we can say that if people have not been burdened by material things and can observe temperance at every level — diet, spiritual and physical exercises, prayer and meditation — then they will learn more about themselves and their real needs, so that as a complete physical, intellectual and spiritual being they will be more aware of their developmental needs. This does not mean a mechanical practice (for example, to fast just out of habit or just to address specific health problems). At the beginning it can offer something new and unexpected for the individual who gets used to it, but later on it should become a festive occasion for the soul, in the way that the body and mind feel when they go on holiday in the countryside and are isolated and protected from intellectual and other burdens. They revel in nature and are happy. In this vein, fast days should be festive occasions for the soul, and we should enjoy this moment as a union of body and mind. Thus we can discover our essence and can truly say, this is a truly wonderful world.

Our everyday is truly beautiful and full of natural wonders, so what is written in this paper is peculiar but true and with time it will earn its' place in the nature which beauty is not stopping to discover it self in various ways, and one is related as "symbolic" with, and what was stated in/ from this paper in above pages, related to "photosynthesis and meditation"...

'Starving yogi' astounds Indian scientists

Yahoo! 7 May 11, 2010, 9:36 am

A Doctors have completed a study into an 83-year-old man who claims he has spent 70 years without food or water.

An 83-year-old Indian holy man who says he has spent seven decades without food or water has astounded a team of military doctors who studied him during a two-week observation period.

Prabhlad Jani spent a fortnight in a hospital in the western India state of Gujarat under constant surveillance from a team of 30 medics equipped with cameras and closed circuit television.

....



Doctors have completed a study into an 83-year-old man who claims he has spent 70 years without food or water.

During the period, he neither ate nor drank and did not go to the toilet.

"We still do not know how he survives," neurologist Sudbir Shah told reporters after the end of the experiment. "It is still a mystery what kind of phenomenon this is."

The long-haired and bearded yogi was sealed in a hospital in the city of Ahmedabad in a study initiated by India's Defence Research and Development Organisation (DRDO), the state defence and military research institute.

The DRDO hopes that the findings, set to be released in greater detail in several months, could help soldiers survive without food and drink, assist astronauts or even save the lives of people trapped in natural disasters.

"(Jani's) only contact with any kind of fluid was during gargling and bathing periodically during the period," G. Ilavazhagan, director of India's Defence Institute of Physiology and Allied Sciences (DIPAS), said in a statement.

Jani has since returned to his village near Ambaji in northern Gujarat where he will resume his routine of yoga and meditation. He says that he was blessed by a goddess at a young age, which gave him special powers.

During the 15-day observation, which ended on Thursday, the doctors took scans of Jani's organs, brain, and blood vessels, as well as doing tests on his heart, lungs and memory capacity. "The reports were all in the pre-determined safety range through the observation period," Shah told reporters at a press conference last week.

Other results from DNA analysis, molecular biological studies and tests on his hormones, enzymes, energy metabolism and genes will take months to come through.

"If Jani does not derive energy from food and water, he must be doing that from energy sources around him, sunlight being one," said Shah.

"As medical practitioners we cannot shut our eyes to possibilities, to a source of energy other than calories."

DNA is present in all the cells of the body, in perhaps more than 100 trillion cells. If its spiral form could be straightened, it would form multiple paths between the Earth and the Sun. This shows what a powerful radiation and reception we are talking about (on the principle of an antenna, DNA is a system of antennae). In other words, our DNA is a massive aerial that offers a range of possibilities for reception and transmission, whether deliberately or randomly directed. At the QEEMR level, certain genes could be affected, and thus a number of people of only one race, or of a whole race or separate population of people, could be affected, with all the positive or negative consequences therein. This could lead to changing a course of events together with the development of the whole individual and the collective. But with a single science that would unite the physical and spiritual knowledge of mankind, we would gain sound standards to safeguard our ethical conduct, avoiding the harmful consequences of our actions upon ourselves, so that a healthy,

balanced physical ambience would be created as a pleasant and secure environment for humanity now and in generations to come.

Much of the presentations in this text are from the domain of subatomic physics, more precisely, quantum physics and quantum mechanics. The discovery, mentioned earlier in the text, when scientists succeeded in moving an object just by watching it would suggest in itself the need for cooperation among religions on one hand and cooperation between religious and scientific thought and teachings on the other hand. In a way all this justifies the power of prayer. Other, more recent discoveries, also mentioned in the preceding text, indicate that the brain is preparing decisions almost 10 seconds in advance, which shows how important and unique faith and mediation are in our lives. In other words, if this period of time (10 seconds) before we make some important decisions is filled with faith and prayer, then all possible outcomes of our intentions and decisions will be more positive.

Science is shedding new light on the discussion of free will and determinism. Certain patterns of brain activity predict people's decisions up to 10 seconds before the subjects are aware of them, according to research reported by *Nature* and *World Science* staff (April 15, 2008). The study, by John-Dylan Haynes and colleagues of the Max Planck Institute for Human Cognitive and Brain Sciences in Leipzig (Germany), is published online in the research journal *Nature Neuroscience*.

As regards bio-energy therapy, it is important to note that this form of therapy is far more successful than previously thought. In the past the scientific community regarded this as a myth, and aura images were dismissed as a non-scientific hoax, being caused (as some scientists were saying) by the effects of layers of air between the photographic plate of the camera and the fingers. Now with advanced technology these images of energies around the body of the subjects are seen to be even more colourful, and dependent upon the physical, emotional and intellectual state of individuals. That is telling us that something is going on there. Extremely good results in some cases, when pain relief and relaxation is delivered almost immediately without any other method or even touch, strongly suggest that serious dialogue and partnership between alternative and classical medicine is needed for the benefit of humanity. This is supported even more strongly by the knowledge that scientists are already measuring some healing frequencies.

Dr Valerie Hunt (currently Professor Emeritus at the Department of Physiological Sciences at UCLA, California, USA) has devoted the last 25 years to measuring and mapping human bio-energy, and was the first researcher to make objective, repeatable measurements of the full spectrum of the field surrounding the human body. Dr Hunt has developed a method of detecting certain peaks of high-frequency electrical impulses within the human body, which she believes relate to a non-physical energy field surrounding the body. This corresponds to ancient teachings regarding the human aura and the system of vortices known as chakras. She established the BioEnergy Fields

Foundation in 1985, a non-profit organisation devoted to the research and education of the patterns of biofields in life's transactions.

Medical science has shown that all living creatures maintain electrochemical processes in their bodies — human beings more so, because of the electrical activity of their brains. Complicated signal pulses are constantly being passed along nerve fibres throughout the body. The highest pulse frequency in the motor nerves is around 250 Hz. Materialistically minded people had no significant peaks above the limit of 250 Hz, whereas people with healing ability seemed to have frequency peaks between 400 and 800 Hz. People with extra-sensory perception of some kind or other seemed to operate in a narrow band from 800 to 900 Hz. Those with energy peaks above 900Hz are what Dr Hunt called 'mystical personalities', able to act on information derived from 'hunches'.

From a bio-energetic perspective the human body is a real micro universe, a kind of bio-quantum computer related to the time we live in, capable of doing extraordinary things. Among them we must mention again elementary or primary consciousness, which I would describe as our floating in a universal ocean of consciousness. This state provides some important creative characteristics and fundamental energies and forces, as well as other virtual particles and energies and their subparts including its duality in dark matter and dark energy. Even the smallest subatomic particles are conscious of what information they are carrying. That means even waves — keeping in mind that photons are transforming themselves into waves and vice versa — are conscious of what they carry. Our consciousness, with all its information obtained from life, could be shifted or transported into a time-space continuum or into other dimension beyond our own.

Such postulations make this book and its contents timeless in its own way. Here, perhaps, is the appropriate moment to explain in brief the mechanism of bio-energy practice or that of other gifted persons conducting bio-energy therapy. As mentioned throughout, an individual's quantum-electromagnetic (QEM) superiority makes them unique, or what makes them 'different' from another individual. The core of this mechanism (among others processes), the QEM superiority, is making changes and influencing the forces between/among/around subatomic particles, energies, atoms, cells (and, therefore, organs), and altering their state during the time that the therapy (or something else like phenomena) is taking place. On that basis, miracles are occurring. For example, it can be shown that scoliosis improves as a result of this therapy, the rigid contractures loosen and fingers even become mobile (Re:scoliosis, case for operation has already been observed improving and operation was not done, form/ in the authors' own practice, and the client has been interviewed and videotaped!). ...

Bearing in mind earlier statements about bio-energy, it is important to note the latest scientific news received from the National Radio Astronomy Observatory, Charlottesville (USA), reported by *World Science* on January 6,

2009. According to Chris Carilli of the National Radio Astronomy Observatory, new evidence appears to resolve the “cosmic chicken-and egg problem” of which came first — black holes or galaxies. Scientists had already established that there is a link between black holes and ‘bulges’ of stars and gas galaxies, but it had not been clear whether one emerges before the other. Using the National Science Foundation’s Very Large Array radio-telescope and the Plateau de Bure Interferometer in France, a team of scientists in the USA and Europe has been able to scrutinise black-hole and bulge masses in several galaxies as they were in the first billion years of the Universe’s existence. The researchers have concluded that because the black holes in young galaxies are much larger than the bulges, black holes start growing first. More research is now planned to better understand how the black holes and bulge masses influence each other’s development.

These results open the door for exploring artificial intelligence, quantum computers, time travel/shifting, increased awareness and balanced development of humankind and so forth, and asserts that both science and religion are good for humanity today, as they were in the past. I trust you will see that as we, in different cultures or disciplines or beliefs, are essentially talking the same language with different approaches, then it is through open dialogue that we can strengthen our future as a universal brotherhood of man on this beautiful planet, as we were once: Brotherhood. The new findings will bring new light on old “mysteries” which won’t be mysteries anymore but maybe groundbreaking knowledge for something new as it is shown in previous pages and below. So this is life science, as life itself, growing as mankind is growing by new knowledge and understanding of things, of self, of nature, making law and order everywhere beginning with self... So it is time to say to mankind “.... bon voyage, good luck and all the best with new knowledge and dialogue for everything...”



BIOGRAPHY

Dr. Vasko M. Najdovski is trained as a medical doctor in his native Macedonia. He worked as a medical doctor in Macedonia and in Australia.

He is the founder of Global Dialogue Foundation and various other organizations in Australia and abroad through which he expresses over 20 years of active humanitarian and philanthropic work. Working in the area of citizen diplomacy, Dr. Najdovski developed a model with 3 major sectors for modernizing, transforming, remodeling and strengthening the global governance through UN systems. The model incorporates an "organized" civil sector on local, regional and global levels. Through dialogue, it will help strengthen and pave paths for developing law and order in the wider community, coming from the needs of ordinary citizens, faiths, cultures and civilizations in years to come.

Using "Dialogue" as a means towards the future, Dr Najdovski's work aims at building pathways and increased awareness for cooperation and dialogue among humans, nations, cultures, civilizations, religions, science and religion, also building bridges for cooperation, understanding and friendship. Also, working towards a brighter and safer sustainable environment while protecting our planet and opening wide avenues for space exploration and inhabiting space for common good.

Dr. Najdovski has researched and written widely on bio-energy and bio- energy therapy over many years. At present, his focus and interest is scientific research and new technologies, particularly in the area of Bio-energy. He is promoting and initiating the establishment of International Institute of Science, Faith and Technology, where Bio-energy/Bio-energy Science will be a "vehicle" for establishing long-awaited friendly dialogue among science and religion and bringing their thoughts closer for common good. Also, based on his 20+ years research and experience in the bio-energy/healing field, to offer mankind ground breaking/cutting-edge technologies.



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**- Imaging of Ultraweak Spontaneous Photon Emission from Human
Body Displaying Diurnal Rhythm,**

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Human electromagnetic emission in the ELF band

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