

SCIENZIATI PER LA PACE COSCIENZA ED ETICA PLANETARIA 19 – 21 ottobre 2018

SCIENTISTS FOR PEACE PLANETARY CONSCIOUSNESS AND ETHICS October 19 – 21, 2018

1. **Exit the matrix: The Interscalar Revolution in science**
Abstract
Hartmut Müller

The global unification of the world view is part of the globalization of the market and an essential condition for mass control. Power functions operate better if everybody has the same model of reality and it does not matter whether the model is true or not. The information revolution of the 20th century gave birth to the virtual reality of war games, virtual space exploration, virtual economy and virtual democracy. Brain washing mass media puffs up fake news and mainstream delusions of black holes, dark matter, nuclear preemptive strikes and humanitarian invasion spreading the spirit of fear, mistrust and aggression. The persecution of research that could fundamentally change the economics and politics of global power is the logic consequence.

The history of war did not end in 1945, but continued in Korea, Vietnam, Afghanistan, Iraq, Yugoslavia, Pakistan, Libya, Yemen, Somalia and today in Syria, where international power players test modern weapon systems by killing thousands of innocent men, women and children. The arms industries need to sell weapons. War is the main source of their profit. Counterproductive for the arms industry, international relations of peace and cooperation are undermined by illegal arms trade and organized terror.

Today science and engineering are more powerful than ever before and ethics in science and engineering have never been as important as they are today. Though, the current mainstream paradigm that allows the development of weapons of mass destruction is hostile to life. This is why today it is so important to change the paradigm in science and education. Only an ethical paradigm can lead to a peaceful future of humanity. This ethical paradigm must include all forms of life, it must be planetary and universal.

The interscalar vision of the world could become the new scientific paradigm that shows the complex connection of processes at very different scales of the universe, explaining how the subatomic and galactic scales are directly related to life as cosmic phenomenon.

An interscalar world view means learning to recognize and respect life on all scales. The interscalar view of life allows us to recognize our planet as a life-form, not only the biological organisms that inhabit the biosphere, but the entire planet as whole. In the interscalar paradigm the solar system is alive, and even the galaxy and the universe are life forms.

Humanity is not isolated, but embedded in the solar system, it is an integral part of cosmic life. This is a scientifically demonstrable fact that should be considered in economics and politics but also in medicine and scholastic education.



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In the interscalar view, the fundamentals of life are not power and competition but cooperation and communication. Cooperation functions only if it is based on the truth. Only when this vision is supported at home, at school, at the cinema, at the supermarket and on the Internet can our ethical conscience rise and the war will cease.

2. **Mind Wars, and Peace of Mind**
Abstract
Ulrike Granögger

In our modern era of social media and smart communication, war is first and foremost fought over our minds. War begins in the news and by means of controlling the narrative of who and what is right or wrong. This presentation will show evidence that an effective war is fought over our minds and cognitive abilities to manipulate and control populations. It raises the question whether peace is possible without fully addressing this reality. Research shows that the human mind is equipped with high-dimensional resonance capacities (Global Scaling, Blue Brain Project) that when fully activated, may literally bring peace of mind.

Ulrike Granögger, M. phil., researcher, has been lecturing for 20 years on perspectives of science and conscious spirituality. She is part of the educational organisation of social scientist, futurist and mystic J.J. Hurtak. She has worked with Russian medical scientists Vlail Kaznacheev and Alexander Trofimov of the Institute of Anthropoecology in Novosibirsk and was scientific editor of their English publication (titled Reflections on Life and Intelligence) of experiments on the consciousness effects of the “Kozyrev Mirror” and the epigenetic effects of the “hypo-magnetic chamber”.

Since 2002, extensive research has been carried out with Hartmut Müller on the interscalar model of the universe that shows a mathematical interconnectedness of all scales of matter-energy, from the cosmological to the biological down to the interactions of subatomic particles. She has lectured in Cairo, Egypt with the group of Dmitri Pawlov (Institute of Hypercomplex Systems, Moscow) looking at the nature of pyramidal spaces. In 2017, she presented at the Conference on Consciousness and Human Evolution TCCHE in London.

Working in France, Switzerland, Germany, Italy, Finland as well as Turkey and South Africa, in her educational and experiential seminars she links science, Eastern and Western scripture and meditation to teach a transformative experience for the human mind, at the same time warning of the subtleties of “mind control” and an impending “transhumanist” future.

Ulrike is a leading member and European coordinator of J. J. Hurtak’s Academy for Future Science (AFFS) where she has been involved in the translation and publication of numerous titles.

www.centropy.eu



3. **Demilitarization: Some Ideas For a Better Future**

Abstract

Mirco Elena

Physicists, researcher in Trento (Italy)
Center for International Cooperation and
International School on Disarmament and Research on Conflicts (Isodarco)

Science has improved the living conditions of many human societies. At the same time it has produced more powerful weapons capable of annihilating the modern industrial civilization.

The population growth and the increased per capita consumption of resources have created new problems and increased the potential for conflict. An approach based on science, technology, education of the citizens and courageous politics has the potential to reduce the scale of the problems, and to offer a way forward for a long-term positive continuation of the human species.

Some ideas and examples are offered in this regard.

4. **The Ethical and Legal Case against Autonomous Weapons Systems**

Abstract

Guglielmo Tamburrini

Autonomous weapons systems (AWS) are machines that are capable of selecting and attacking targets without any human intervention. Delegating warfare and kill decisions to machines has been made feasible by the confluence of advanced robotics and artificial intelligence technologies.

This talk is concerned with the proposal to prohibit the development and use of AWS by means of a legally binding international treaty. It is argued that ethical and legal arguments advanced against autonomy in weapons systems jointly provide powerful reasons for banning AWS. These arguments are variously based on the protection of human dignity in armed conflicts, the principles of distinction and proportionality in warfare, the need to avoid responsibility gaps in case of harmful events, the lack of human empathy and compassion restraints in automated targeting, the dictates of public conscience and, last but not least, the threats that AWS pose to international peace and security.

These ethical and legal reasons have fuelled initiatives undertaken by the Campaign “Stop Killer Robots”, launched in 2013 by an international coalition of NGOs, and ongoing diplomatic debates about AWS in the framework of the United Nations Convention on Conventional Weapons. Similar ethical and legal concerns underpin recent initiatives against AWS undertaken by robotics and artificial intelligence scientists, as well as by managers and employees of high-tech companies. The Scientists for peace declaration can provide a distinctive contribution to extend awareness about the threats for humanity that arise from relinquishing human responsibilities in warfare and from allowing autonomous machines to take human lives.



5. **The Banner of Peace in the Epoch of Avanguard Post-classical Science**
Abstract

Alexander Trofimov

International Scientific-Research Institute of Cosmoplanetary Anthropoecology named after
Academician V.P.Kaznacheev, Russia, Novosibirsk

On the night of December 25, 1990, in the Far North, in the small Russian settlement Dixon, a graphic symbol proposed by Nikolay Roerich became known as the "Banner of Peace". It connects in infinity the circles of the Past, Present and Future.

Introduced first in the history of our civilization as an aluminium structure, later called "Kozyrev's Mirrors". The space of the Universe, or its Observers, in accordance with the "strict anthropic principle of Carter-Tsiolkovsky", responded to this message by the language of the Fiery World- an "energy plasmoid" was formed inside the "Mirrors" and a moving luminous disk appeared over the night polar sky. The next step in scientific thought outstripping our reality was the creation in Novosibirsk in 1994 of the prototype of the "Institute for the Study of Mental Energies", which was repeatedly mentioned in "Agni Yoga", entitled "International Institute of Space Anthropoecology" (now ISRICA named after academician V.P. Kaznacheev). It was granted to our institute for its responsible storage and for a gradual approbation a unique research tool "Kozyrev's Mirrors" in which it became possible to simulate a space with a condensed "energy-time," overcoming the known limits of the speed of light, to realize the "quantum superposition of human consciousness" in Time and Space for any given star coordinates.

For a quarter of a century of scientific research, (including joint mirror works conducted on the initiative of one of the founders of psychosynthesis and the Community of Living Ethics in Italy-Sergio Bartoli), unique data has been obtained that the cosmic consciousness of mankind is also a Mirror in the intelligent Universe that can and should be a direct reflector of the World. In numerous experimental projects implemented by ISRICA in Russia, France, Italy, Great Britain, Bulgaria, Serbia, Austria, USA, Mexico, Brazil and China it has been scientifically proven that the instant remote translation of positive systematic images in "Kozyrev's Mirrors" opens channels for the disclosure of "cosmophilic" psychophysical reserves in man and mankind.

This signifies new horizons and possibilities of the cosmic consciousness of mankind before ever-increasing challenges and threats of "cosmophobic" forces. Mirrors in the Holographic Kozyrev's Universe are a new acquisition of humanity and its until not appraised property for monitoring and possible positive correction of the Future, strengthening the World, reducing its entropy and immediately moving away from the necrosphere while creating the NEO-noosphere, consonant with the score of the Universe. It is necessary to openly discuss and adopt the International Program for the continuation of coordinated interdisciplinary scientific research of transpersonal communications between people as an indicator of entropy, negentropy of the global consciousness of mankind on its thorny paths to the living ethics of the Heart.



6. **Ways to Stop Global Warming**
Abstract
Dorota Retelska

Global warming is caused by human emissions of fossil fuels (IPCC), modern agriculture and deforestation. It causes heatwaves, forest fires, droughts, heavy rains, floods, stronger hurricanes and storms with more lightnings (IPCC, WMO). Temperatures and their consequences will most likely increase in the 21st century (IPCC) and maybe even in the next ten years (UK Met Office, Climate Institute, James Hansen). Climate might affect agriculture and cause food shortages, as well dangerous heat waves and storms.

We need to restore the atmosphere of our Planet. Trees contain a large proportion of carbon, and growing large forests would withdraw it from the atmosphere. Trees are a wonderful solution as they capture carbon, form fertile soil that also contains a large fraction of carbon, emit water vapour and chemical compounds that cool the atmosphere and other that cause rains over forests and nearby. Their deep roots help to channel water to aquifers and to replenish them. Forests also harbour lots of animal species and a rich biodiversity and reduce environmental pollution. Several tree planting initiatives are currently planned and are crucial for the Planet.

Intensive agriculture caused aridification and desertification of many soils. A rich, natural soil contain carbon plant debris, bacteria, worms and insects. Global soils contain 2-3 times more carbon than the atmosphere. The amount of carbon in soils could be increased to absorb all human emissions (4p1000 initiative). This can be achieved by stopping deforestation and by complying with soil-restoring agricultural techniques, most organic, using plant cover for soil, manure and compost, restoring crops, pastures and forests in arid regions, planting trees and legumes.

Meat consumption is one of the main causes of deforestation and replacing meat with plant-based food could be the best way to reduce global warming. It would allow reforestation of a large proportion of fields and pastures.

Use of fossil fuels, oil, gas and coal needs to be reduced now as much as possible. We must replace them with renewable energies such as wind and solar energies and increase energy efficiency, at least as it was agreed in the COP21 conference. More stringent goals must be set soon in front of increasing climate disasters and dangers. Some groups suggest to declare a climate emergency situation or a natural disaster emergency situation, where car and plane travels would be restricted.

Moderation and respect for the objects we have are good solutions too. We should buy only the amount of goods, clothes, food and furniture that we really need, choose ecological materials and ways of manufacturing and handle these goods carefully and with respect, then ensure recycle and reuse. We became a big Mankind living on a small Planet, and we need to adapt fast to this situation and to treat Earth with respect.



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7. **Two Dichotomies as the Foundations of Science and Peace**
Abstract

Antonino Drago

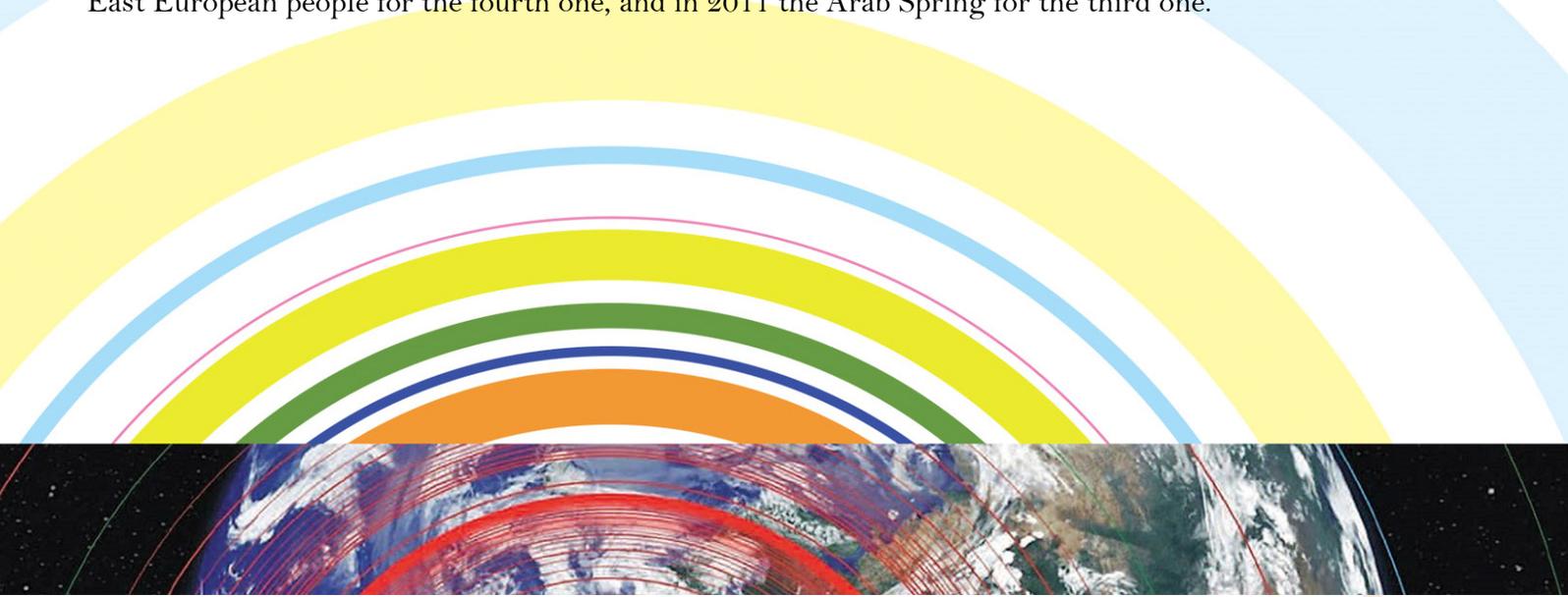
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Leibniz has stressed “two labyrinths where our reason goes astray” i.e. “actual infinity or potential infinity” and (the subjective way of experiencing an organization), i.e. “either law or freedom”, the reason they are seen as labyrinths is because only ethical choices can solve them. By suitably representing these two basic dichotomies within each field of human experience, this philosophy suggests the foundations of our knowledge and our spiritual life.

Lanza del Vasto has represented the spiritual world by means of a compass determined by two crossed dichotomies, i.e. superior/inferior and exterior/interior. By exploiting two basic dichotomies forgotten by Talcott Parsons, in 1976 Johan Galtung presented two dichotomies as the foundations of social sciences;- i.e. either vertical interpersonal relationships or horizontal relationships; either collective homogeneity or individual diversity. By crossing them he has obtained four models of social development. Through analogous dichotomies for natural sciences he has obtained four models of scientific production.

By means of a comparative analysis of the main physical theories I discovered that the differences among their various formulations may be traced back to their different choices upon the following two formal dichotomies; i.e. either classical mathematics or constructive mathematics (based on respectively either Actual Infinity, AI, or Potential Infinity, PI) and either classical logic or intuitionist logic (respectively managing either a theoretical Organization of deductions from few Axioms, AO, or an organization aimed at solving a basic Problem through the suggestion of a new scientific method, PO). The four pairs of choices on these two dichotomies give four models of scientific theory; their most representative physical theories are respectively Newton’s mechanics, Lagrange’s mechanics, Descartes’ optics and Lazare Carnot’s mechanics. The first pair of choices played a paradigmatic role in the History of Physics.

My characterization of the basic choices in natural science led me to qualify in structural terms Galtung’s analogous social dichotomies; one of them concerns the pursuing Infinity, represented by either an Absolute, mythical goal, AI, or the Personal relationships, PI; the other dichotomy is between an Authoritarian Organization, AO and a People organization, PO. The births of the corresponding four models of development are marked by the following revolutions: Glorious, American and French revolutions for the first model, in 1917 the Bolshevik revolution for the second one, in 1989 the non-violent liberations of the East European people for the fourth one, and in 2011 the Arab Spring for the third one.



At present these models of development are represented by the following international political actors: US, China, Arab states and green movements. Inside Western civilisation the dominant choices are the former choices AI and AO and they constitute a paradigm. As a conclusion, the structure of the two dichotomies precedes both natural and social sciences; i.e. first ethics and then science.

Galtung has defined a conflict as an A (assumption), B (behaviour) and C (contradiction). By summarizing all possible assumptions through the two social dichotomies one obtains a comprehensive theory of conflict resolution, which actually was anticipated by both Freud's psychoanalysis about the interior conflicts and Clausewitz' theory of war strategy. It is possible to found a political theory of non-violence, in particular a theory of a national non-violent defence, upon the social choices PI and PO.

The main step ahead for achieving World peace will be the recognition of the pluralist politics of the four models of development at the UN level; as a second step, the empowerment of the typical model of development of non-violence, whose choices are PI and PO, so that it – which in 1989 overcame the Cold War - will be enabled to find out the non-violent resolutions of the hegemonic struggles conducted by the other models of development. That means a powerful super-national organism (UN including a World Senate), International Courts, strong Peace-keeping and Peace-building corps at UN's disposal.

As an application of the above considerations, I suggest a modification of St. Francis' "Simple prayer" – the unique detailed prayer for achieving peace - so that it illustrates a method for solving conflicts.

¹ Leibniz G.W. (1710), "Introduction" to *Monadology*.

² Lanza del Vasto (1971), *La Trinité Spirituelle*, Paris: Denoel, 180.

³ Galtung J. (1976), "Social Structure and Science Structure", *Ideology and Methodology*, Copenhagen: Eijlers,.13-40

⁴ Drago A. (2012), "Pluralism in Logic. The Square of opposition, Leibniz's principle and Markov's principle", in *Around and Beyond the Square of Opposition*, edited by J.-Y. Béziau and D. Jacquette, Basel: Birckhauser, pp. 175-189. Drago A. (2017), *Dalla Storia della Fisica alla scoperta dei Fondamenti della Scienza*, Roma: Aracne. The same two dichotomies emerged also inside modern physics. Drago A. (2016), "The three formulations of quantum mechanics founded on the alternative choices, in Esposito S. (ed.), *Società Italiana degli Storici della Fisica e dell'Astronomia: Atti del XXXV Convegno annuale / Proceedings of the 35th Annual Conference*, Pavia U.P., 251-259.

8. **Transforming Hate to Hope, One Humanity Institute**
Abstract
Dr. Nina Meyerhof & Domen Kocevar

We stand at the cross roads of humanity, at one of the world's most compelling pressure points- with the solemn responsibility to engage our collective imagination with our commitment to co-create a world transforming hate to hope and to a culture of harmony and balance. Our task is to foster a culture of the evolving ideas and practices for a world that works for all. We focus on Living Ethics for a sustainable world. Our values encompass living as One Humanity.

The Auschwitz Camp served as a key factor in initiating of the United Nations and the Universal Declaration of Human Rights, yet genocide, ethnic cleansing, and other crimes against humanity and our planet continues to this day. The Declaration is the forerunner of the SDGs that is to resolve issues by 2030. Similar pressure points exist around the world, yet none bears such opportunity like One Humanity Institute, to stand as a pillar model for peace and sustainability of all.

Adjacent to Auschwitz, there are 11 buildings that will house a complex of diverse experiences creating the One Humanity Institute. The existence of the One Humanity Institute will serve as an iconic model for transformation that is critical to our survival.

This will be a campus of a collaborative project, partnering with private organizations, governmental and non-government agencies, encouraging a diversity of ideas and practices. Together we are building a City of Hope within the city of Oswiecim / Auschwitz. Our goal is to intersect science and all disciplines to further peace. This can be used as a pilot project and create hubs around the world.

The Institute will offer structured learning opportunities in a variety of forms for young people and adults through formal and non-formal education. Such opportunities will focus on the 17 Sustainable Goals of the U.N., inter- and intra-faith studies, inter-cultural understanding and cooperation, conflict resolution and trans-rational problem solving, reconciliation, entrepreneurial social impact projects and leadership skills for the rising potential of the empowered voice of individuals.

Our goal is to create a city of hope that will house a Museum, an Educational Center, Peace Library, Learning Labs, Conference Center, Peace Garden and needed hospitality services for food and housing.

One Humanity Institute will embrace peace that goes beyond the mere absence of conflict and war, to bring about a change of heart that embraces our common humanity.

Our goal is to move mankind into an age of mutual caring, collaboration, cooperation and unprecedented unified action.

www.onehumanity.institute



9. **Our fears as educators: Education as an inner process**
Abstract
Andrea Bocconi

We cannot promote peace if we do not develop inner peace first. In the field of education it is crucial that the personal work of educators and Psychosynthesis offers useful maps and techniques. As Verso Foundation we operate in Italy and abroad, with students and educators.

10. **Converting the Profits of War to the Profits of Peace**
Abstract
Catherine Austin Fitts

The financial system is an important aspect of our global governance system. A secretive and invisible financial system has contributed to significant corruption, organised crime and a world at war. How can we use transparency to realign our financial resources with people and living things? How can transparency attract support to a scientific community that enables an informed population, a healthy decentralised economy and a world at peace?

11. **Co-constructing the Society using Systematic Social Sciences**
Abstract
ao.Univ.-Prof. Dr. Franz Hörmann
University of Economics and Business, Vienna

“Economics and Law” are called “Sciences” today – but they aren’t! They are “normative sciences”, that science theorists don’t accept as “legitimate science” (for lack of scientific methods) and that Wikipedia calls “a type of information that is developed, presented, or interpreted based on an assumed, usually unstated, preference for a particular policy or class of policies”. Some evidence for the abuse of sciences by “Economics and Law” will first be presented using logical contradictions (money that exists in three mutually exclusive forms at the same time), undefined phrases that are meaningless but used every day to justify political decisions (“free markets”) and a nonsensical “valuation principle” (the so called “law of supply and demand”), that indeed only is the hidden premise of global scarcity by definition of Economics itself (“The optimal use of scarce resources”). The real control mechanisms in society today are greed and fear (“extorting the poor and bribing the rich”) using worthless symbols in bank computers, that simulate a “volume” a “circulation” and most importantly, a “debt”, that simply doesn’t exist at all, when scientifically questioned and examined



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After explanation of the scientific deficits of “Economics and Law” I will bring some historical examples, how the real intentions of small power groups could easily be hidden behind those “scientific rules” (the crash of 1929, the ENRON scandal, the fall of Long Term Capital Management, the first hedge-fund in history, and the collapse of the Lehman Brothers investment bank) and I will explain the real workings behind the scenes. Afterwards I will present a new scientific discipline, Systemic Social Sciences (SSS) to analyse, explain and predict events and developments in society much better and more reliably than today using “Economics and Law” by showing how we can immediately...

- rescue every bank worldwide without the use of tax money;
- implement a post-materialistic money system to turn our societies from zero-sum-games into plus-sum-games where all people can “get rich” together and never at the expense of others (the end of extortion and redistribution);
- enabling permanent growth not by maximizing money and materialistic “assets” but by minimizing harm, detriments, illness, pollution, poverty etc. and finally,
- co-constructing a society without the need for the state’s monopoly on the use of legitimate force.

In my lecture I will demonstrate how the Systematic Social Sciences interpret the behavioural patterns of the past and present as the product of rules, perception and belief systems. After having changed our belief systems we can co-construct new rules that lead us to a totally new perception of our brothers and sisters, all living beings as well as nature at large.

12. A New Wind is blowing in the Solar System
Abstract
Giuliana Conforto

It is the solar wind, plasma that escapes from the Sun’s surface and touches the Earth’s one at 3:30 in the night when our hormonal secretion occurs. It is the daily evidence of our individual, physical and physiological link with the solar wind.

What are the main causes of wars?

First our collective ignorance of the moving Cosmic Web, that joins everything and is more and more evident to scientific research; second our collective ignorance of the huge “dark energy” that challenges all the limits of energy and, third, a dominant “knowledge” that ignores what Life is.



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One Intelligent Force moves everything, us humans and infinite intelligent universes. We might "see" them within if we opened our Third Eye or Ear, i.e. our pineal gland. This is no longer philosophy and not even science fiction.

Our pineal gland is a white hole, potentially linked to all the other black and white holes by the Force that physicists call "electroweak" if we were able to use it. This Force is the basis of the Standard Model that has been repeatedly tested and physicists... dislike, since it challenges their previous beliefs, such as the presumed "universality" of gravity.

Therefore we face the main choice, whether to be or not to be linked with this Force that undermines our previous beliefs in separation, hence their stupid and tragic conflicts.

13. Consciousness and Health: Unified integrative medicine.

Abstract

Dr. Nader Butto

Very few researchers have so far thoroughly studied the interconnections between body, energy and consciousness. Most of them still follow Newton's mechanist model. Yet, with the advent of higher energy studies (particle physics), the nature of these relationships is becoming increasingly clearer.

Quantum physics and the holographic model have promoted new thinking currents that aim at examining the complex energetic association between man and his environment. Newton's mechanistic model is being replaced by holistic paradigms that view everything as a single entity. Epigenetics is intensive studies to understand the mind of genetics. It is not surprising, therefore, that quantum physics scientists are reaching similar conclusions concerning the relations between the individual and nature's singleness to those described by the ancient Chinese, Indian and other cultures philosophers.

The physical explanations of basic cosmic laws that apply to all components of the universe, regardless of their form, and provide the tools for comprehending human physiology and present new definitions of the basic concepts such as homeostasis, wellbeing, suffer and disease. Since everything is made of one and the same primordial energy, a basic understanding of the qualities of cosmic energy will lead to a comprehension of the cosmic consciousness and the mind of God. This, in turn, will lead to an understanding that the body is, in fact, the explicate order of the implicate order of the soul.



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Human essence comprises the merging of the physical body, the vital energy, quantum state of the soul and the psyche. These elements maintain a dynamic balance between them, from the highest energies of the soul to the physical reality. The holistic view of health and well-being does not only pertain to balancing the physical and psychological bodies, but must also include aspects of the spiritual - the soul - nourished by the energy absorbed from food, air and through the skin; through the energy centres, the chakras; meridians, and the aura that surrounds each cell and the entire body and how it is influenced by cosmic consciousness.

Finally, the presentation clearly portrays the direct connection between an emotional crisis, the energetic block in the chakras related to endocrine glands and meridians connected with organs, as a result, the appearance of physical and psychological symptoms associated with the energy blockage.

14. **Interscalar Science; New perspectives in medicine**
Abstract
Leili Khosravi

In the last century, classic medicine has taken giant steps but always applying analytical methods, in which the study of an organ went to that of the tissue, the cell and then of the molecules. Analysing the interrelations and trying to discover the chemical relationship at the cellular and sub-cellular levels, the methods of treatment were refined but always concentrated in a local vision.

In this traditional view the sick organ is thought as to be isolated from the organism, and the patient is thought as to be isolated from humanity, from the kingdoms of nature and even from the planet itself.

The interscalar view recognizes the major scales of which the human is part of and connects him with the minor scales that he incorporates, and repositions the human in that universe to which he belongs.

In the interscalar view, life is communication and cooperation between many scales; when this communication is open, it is fluid and we call it health; whenever this communication is violated or interrupted, the disease appears.

This new paradigm highlights and studies interscalar connections by offering a diagnostic and therapeutic method that opens new horizons for medicine; interconnections that we could never have considered before.

