

*Pismo uredniku/  
Letter to the Editor*

Letter to the Editor, as an wider viewpoint regarding Quantum medicine, and related recent monograph (Integrative Biophysics, Quantum Medicine and Quantum Holographic Informatics: Psychosomatic-Cognitive Implications (IASC& IEPSP, Belgrade, 2009) and paper (MD-Medical Data, Med. Rev., No. 2, 2009, pp. 71-74) of professor Dejan Rakovic.

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QUANTUM MEDICINE HAS COME TO STAY.

THE BIOPHYSICAL WORLDVIEW  
OF PROFESSOR RAKOVIĆ

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Once in a while there appear on the international market books that shakes the foundation of our society generated worldview of things as they ought to be, rather than how they really are. Physics has had a number of major earthquakes since the discovery of quantified energy distribution introduced by brilliant minds as Max Plank, Albert Einstein, Erwind Schrödinger and their generation of heaven storming discoveries that tore down the Welt Anschauung of the 19th century physics: knowing all is so simple attitude. After an century of quantum physics and relativistic physics the world will never be the same.

But did these major breakthroughs in physics enter biology where living organisms of all sorts exist due to smart generation of electromagnetic energy derived from light, air, electrical fields and substances that can be broken down to free and bound energies. Nobel Laureate professor Szent György expressed the fundamentals of biology when calling: "All medicine is energy medicine", and predicting a immanent future when biochemistry would be reduced to energy-physics.

Unfortunately for us all this never came into being due to the sad fact that medicine as practiced is not a physical science friendly community, but a closed community embedded in 19th century biochemistry and morphological thinking. Few physicists in the West has ever gained access to the Medicine Hall of fame, although in Russian and the East there has been more fertile cooperation and thus from the old behind the iron curtain landscape emerges a new heroic effort to knock on the doors of 19th century medicine; this newcomer to the game is professor Dejan Raković with a most scholarly work: Integrative Biophysics, Quantum Medicine and Quantum Holographic Informatics: Psychosomatic-Cognitive Implications (IASC & IEPSP, Belgrade, 2009). Behind this title hides a wealth of 20th century quantum physics and computer research ready to be implemented by medical science, psychology and even some traditional therapies like acupuncture!

The problem is of course: Raković writes for the educated audience and doctors are not invited. If however you happen to belong to the few who have been educated in both

fields, like myself, there is hope to grasp the ideas. So here follows a short résumé.

Introduction to the book takes a historical tour the force through hard facts that clearly show that humans as well as animals are energy-based beings influenced by a number of outer energy fields like the electromagnetic components of weather, the circadian rhythms of the day-night cycle and the energy nature of our metabolism. For those still remembering energy production in the cell the trick of nature is to strip either sugar, fat or amino acids from electrons in their high energy state by adding Oxygen; attach them to Phosphorus and send them into the cell to do work. Clearly quantum principles are at work. How could medicine men forget their days of Biochemistry and how could our lecturers hide the simple facts?

Having introduced the reader to ideas as energy and rhythms of nature; Raković asks: What about oscillatory nature of energy? Probably you forgot even that all components in nature vibrate, from energy levels in simple atoms up to large structures like cell membranes and whole cells. Their activity is not stable, they are metastable, constantly shifting energy states and vibrating with complex frequency patterns. From there on the road is paved for the Quantum-physicist Raković to go on pounding in his theories.

He now takes on the task of introducing empirical science from the East based on the vibratory nature of living organisms energies, like acupuncture and Microwave Resonance Therapy - considered by Raković in his paper Quantum medicine: Phenomenology and quantum-holographic implications, of the previous issue of this journal (MD-Medical Data, Med. Rev., No. 2, 2009, pp. 71-74). Using tuned microwave signals on acupuncture points, healing of organic diseases has been proved beyond all reasonable doubt to speed up by a tenfold factor. Russians have done this for decades; the West is still largely ignorant.

Then Raković goes on to hammer on still a closed door: Psychology. Instead of using Freudian concepts he goes to the heart of the matter: The mind as an expression of a nervous system and acupuncture system operating on a quantum physical basis. Energy imbalance does not only spell pains,

aces and sickness of the body: It also spells alteration in the way we think and feel! You are not only a thinking machine programmed by society; the machine is also steered by biochemistry and energy vibratory states. The West has recently awoken to the chemical nature of the mind; but have they yet started to implement the energy and software components of the computer? Answer is no; if we look at daily practice in the doctors office whether private or in the hospitals! Raković and his colleagues in the East ask us to wake up. Psychotherapy may well be done equally well with energy medicine, Thought Field Therapy and similar cognitive therapies compared to the Western chemicals and hospitalization; and then even better so! Therefore Raković asks us to look to the future medicine that has been around for some decade: Quantum medicine!

So far most doctors and biologists may sense a scent of "alternative medicine"; but it is easily seen that professor Raković is out to investigate reality without looking to artificially created boundaries; because compartmentalization of science is a sociological thing; reality is a continuum to be explored, by whatever means is meaningful within the spectrum for which it is meant to be used. So, naturally energy physics is best applied to the energy part of the spectrum.

When the book starts on the chapters dealing with the mathematical science of the human energy system it starts to shine more than the ordinary. Chapter 2 and onward starts with neural networks; the mathematical science of analyzing how clusters of cells communicate and cooperate to create a hierarchical system used to retrieving information, making a map of reality and send output back to the body to operate in "real life". Network analysis is here done by using Hopfield equation system. The equations are the modified by mathematical tools as Hebbian memory matrix and Haken oscillatory equations. From such tools used by computer constructors to neuronal science emerges some strange mathematical realities: Namely that network where energy of components are vibrating (oscillating) behaves as molecular components in quantum physical systems.

It is often said that cosmologist Stephen Hawking's dreams of applying quantum physics to astrophysics to create a unified theory of the Universe. So far he has not succeeded. However Raković has succeed in another far more complicated universe: the human body-mind-souls system to describe it by quantum field like system of equations. If the Universe should behave in a similar manner, the age old saying might apply: As above (in the Universe) so below (in the micro-verse, that is man)!

Using whatever quantum physics and network analysis have to offer Raković goes on to attack problems as memory, brain structure, consciousness, states of consciousness, acupuncture system, and then on to the molecular level! Wherever he looks the same equations turn out to be useful for phenomena as enzymes, isomers, how cells are built, how cells function.

On the road there appears a plethora of idioms from the frontiers of science and consciousness like coherent mental states to fractal qualities of neural networks. From such mathematical tools, acupuncture appear to be easily justified.

The last chapters of the book are devoted to macroscopic nature of the brain, how nerve cells interconnect, mapping on information in the brain, the holographic nature of the brain-mind. Integrating these more mundane medical facts with quantum physics and network modelling Raković deals with subjects such as consciousness, perception, learning, memorising, thinking, language, emotions and once again acupuncture and techniques that are developed from acupuncture, such as Thought Field Therapy and even Buddhism and meditation, get their treatment.

To cover all aspects of this book is too much for one article, however it is a worth while reading for medical doctors, psychotherapists and acupuncturists to mention a few to keep ahead by a very rapid expanding frontier, where 19th century chemical-morphological medical science is but one tool in the spectrum of biological research, that starts with molecules and ends with consciousness as a integral part of biological living structures. Strange as it may seem: Energy science is the only tool that spans it all. Matter conforms to energy as is shown in another revolutionary work by Russian scientists Valeri Koutcherouk and Mikail Bazanov in their Vita Geo Theory that goes to prove that the same equations that describe the movements of the solar system also generate the morphological form of the human being; both as a whole and the separate organs! This goes to say: Energy science is the over all science; morphological and chemical science are the hard end products of energy transformational laws.

All in all: the Book is well put together. However, we cannot wait until there comes a more easy to read popular version more heavily illustrated without sacrificing content to be appreciated by ordinary medical personnel as well as laypeople. It is simple too important to be "just another scientific work". It may indeed be "the work" for a next decade for others to use as a corner-stone in building a new medicine for the future... where physicists are heartily welcome at last!