THE NATURE OF HUMAN CONSCIOUSNESS IS SITUATED IN QUANTUM PROCESSES

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Biochemical model of life is largely based on the biochemical processes occurring in the biological system. In addition to the role of electrons, it does not take into account the role of photons and phonons. Therefore, the energy balance in the biological system has to be based not only on chemical bonds and the electrons flow, but also on the energy of photons and phonons. Biochemical model of life has already made concessions to the electrochemical one, but there is a need for the following concessions to the piezoelectricity, pyro-electricity, semi-conductivity, superconductivity and liquid crystals to explain the electrical and magnetic properties of biological matter, and concession to the electromagnetic fields, torsion, bio-plasm, as well as acoustic waves and electromagnetic solutions.

In modern science efforts to solve the mystery of life by electronic means are made. In the description of an electronic model of life attention is focused on the excited states electrons initiate without breaking chemical bonds. Electronic model of life is based on data achieved during studies of electronic properties of certain biological structures (proteins, DNA, RNA, bones, etc.). It is also based on similar substratum (structural, functional) of solid state physics and electronic engineering with the technical solutions. Due to electronic elements in the human biological system information can be managed just like in the bio-computer (especially in sensory processes). Interpretation of the human biological system shows that bio-electronic model allows understanding the nature of human consciousness better than the biochemical model.

Conference participant

1. Bioplasm concept of consciousness

In our discussions on consciousness we encounter many difficulties, which arise primarily from the absence of a uniform concept of awareness, both in the natural sciences and psychology. We still do not know what consciousness is in the ontological sense, whether it is a structure, a process or an act; a product or any other phenomenon? Is it the highest form of behavior, with the help of which an individual governs its relations with the external and internal environment?

Latin word indicating awareness, “conscientious”, means the knowledge shared with someone, often secret knowledge, shared between the conspirators, but in a metaphorical sense, it can mean “knowledge shared with oneself”, pointing to an intimate, accessible only to the experiencer nature of conscious experience. In everyday language, consciousness is understood as a psychological state in which the individual is aware of the internal phenomena such as thought processes, imagination, affection, attention, intention, and the phenomena occurring in the external environment (sensory perception) and is able to respond to them somatically or autonomously, that is, through his or her own reflection. In the world of life and work, each person realizes his or her situation, existing objects, people, processes, states of things and their attributes and mutual relations between them, and develops his or her practical activity, which allows to explore the surrounding reality and to orient towards it. Human consciousness includes not only knowledge of reality, but also self-knowledge or awareness of the human mind’s own activities, feelings, thoughts and motives of conduct, their own situation in the world and society. Awareness of oneself as the main personality trait is not an innate characteristic. We develop it gradually in the course of our lives, from early childhood through school years, adolescence, to adulthood (Lauster 1995, p. 98).

W. Sedlak recognizes that the integrating factor of the biological system is bioplasm.

Plasma is a natural center, which combines chemical and physical process. Changes in chemical composition and physical factors affect changes in plasma’s concentration, particle mass, the size of its electric and magnetic charge, which lead to changes of oscillation. Plasma has a great natural dynamics - all of its particles constantly “feel” the behavior of other particles, responding to the changes in their movement. Movement of each particle endowed with a cargo is made with a number of other oppositely charged particles. This property is a consequence of the impact of electric and magnetic fields and changes in dielectric properties of the medium. Plasma has many properties that are not observable in other physical states. One of its most important features is a collaborative community response to all particles on the distortion of the balance. Interaction of particles in the plasma leads not only to direction change but also to the speed exchange of energy between the particles. As a result of collisions a particle undergoes a small angular displacement. This means that there is a change of momentum of the particle, and therefore in the process of collision, defined part of the kinetic energy of accelerated particles will be transferred to the partner. Plasma responds to magnetic and electric fields (Sedlak 1976).

An important attribute of bioplasm is combination of different kinds of fields and particles (Sedlak, 1968, p.163). Therefore it is concluded that bioplasm is characterized by a common system for wave energy and mass (particles such as electrons, photons, phonons (Sedlak, 1980, p. 178). Bioplasm is organized by its surroundings, but also has the ability to self-organization, which may occur by the magnetic fields generated by the orderly movement of a sufficient number of charged particles. It is a phenomenon known as plasma pinch. Plasma is a natural material and the material life of the universe Bioplasm is linked to life’s processes (metabolism and electronic processes in semiconductors protein (Sedlak, 1979).

According to Sedlak, bioplasm has its own “ diffraction grid”, as well as electromagnetic and acoustic grid. Therefore, any disturbance of the power grid is information for the biosystem. Bioplasm “knows” what happens in and around.. Protein semiconductors, piezo-electric or organic compounds such as melanin, neuromelanin, melatonin, DNA, RNA, etc. habit bioplasm. In order to function properly, it needs different forms of energy. Plasma does not last, it is created and lost. In this process outside energy plays an important role. Receiving information from the outside forces the body to switch appropriately on its own power. Divert energy that could achieve the specified information for biosystem must go through the transformation of a uniting factor within the system. Otherwise there could occur a chaotic accumulation of random changes

in the environment. Plasma is just such a state of matter, which is unified in its diversity and carries the mark of an integrating factor information. Changing the information disclosed in the electrical profile changes plasma biofield. This refers to changes in temperature, pressure, gravity, electric and magnetic fields, torsion, chemical, acoustic and optical changes. Each type of energy delivered to the plasma increases the electrical symmetries, gives the speed of particles and prevents destabilization processes, namely degradation of bioplasm (Sedlak 1980).

In the biological system of human being, consciousness and bioplasm should have ascribed the same properties. At the bottom of the quantum of life, there is no difference between life and consciousness, between the psyche and the bios. There is unity and the quantum level in the protein environment forms a vital link between the electrons, photons and phonons in piezoelectric medium organic semiconductors. Here interaction between the chemical and electronic process merges. (Sedlak1973 s.72).

As an example of the above mentioned observations serves ontogenetic development of an individual. In this development, pre-school and adolescence periods play an important role. The period of adolescence is a period of enormous changes in biological, physiological, but also in psychological system. These changes activate the processes of quantum states that have an impact on the development of bioplasm in the brain and the whole biological system. Increased level of bioplasm in the nervous system of an individual contributes to the emergence of reflective consciousness (Sedlak 1979).

The final stage phase of ontogeny may be characterized by weakening of the degree of collectivity in interactions within the clusters in the plasma biosystem, decrease in the coupling between them, or by the disintegration of the plasma in plasma's clusters. The disintegration of the plasma from the organ can lead to dysfunction of the entire biological system and ultimately to its death. A similar point of view about bioplasm presents Inyushin. According to him, physical fields that are present in bioplasm, should create a biological field. Bioplasm takes various condensation values in different parts of the organism,

MELANIN CONVERTS THE LIGHT INTO SOUND

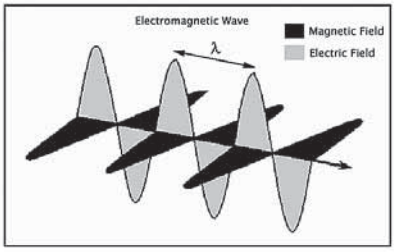


Figure 1.
Shows the electromagnetic wave

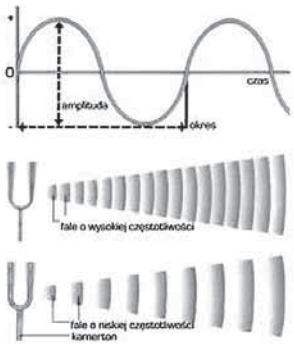


Figure 2.
Shows the acoustic wave

because the particles creating bioplasm can move around the whole biological system. However, bioplasm's task is to keep balance of carriers' condensation in the specified proportions for particular parts of the system. The biggest concentration of electron- holes and electron-proton bioplasm as well as satiation of wave processes are visible in the brain, spinal cord, peripheral nerves and receptor cells. The brain, however, has the highest level of structuralized somatic bioplasm. Proton-electron bioplasm is characteristic for cell nuclei. (Inyushin 1974, p. 338, Inyushin 1978, p. 61).

In the theories presented by different authors, one sees that the key words are as follows: the electromagnetic spin, torsion fields, or Bose- Einstein condensate. Significant role in the formation of mental and sensory states plays melanin, neumeromelanin and melatonin. These substances in the human ontogenesis play a very important role in shaping adolescence and reflective consciousness, abstract thought and higher feelings. The period of adolescence is characterized by a continuous increase of melanin and melatonin in the child's biological system. After that period, quantity of these substances is reduced. This fact effects the growth of free radicals in a child's biological system which influence the development of mental processes. This results in increased activity of different torsion fields (vortex fields) that have an impact on the growth of a density wave biopolasm and this in turn gives rise to the development of the mind in the form of abstract thinking, and reflective consciousness.

The most important feature of melanin is its ability to absorb light and retention, to store and recover energy. It protects against oxidative stress by reactive free radicals: peroxyls, hydroxyls and singlet oxygen quenching of excited states (King 2001, p. 68). Melanin is made up of neurotransmitters and is able to change a light in tone, and vice versa. Color and light are

MELANIN REVERSES LIGHT IN TORSION FIELDS
Photon converts in the neutrino

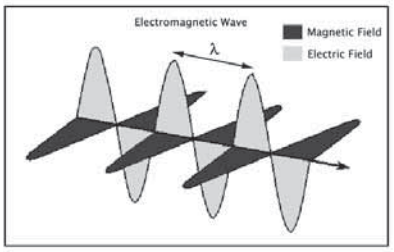
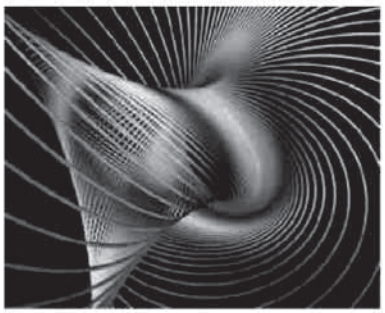


Figure 3.
Shows the electromagnetic wave



Figrure 4.
Left and right torsion fields

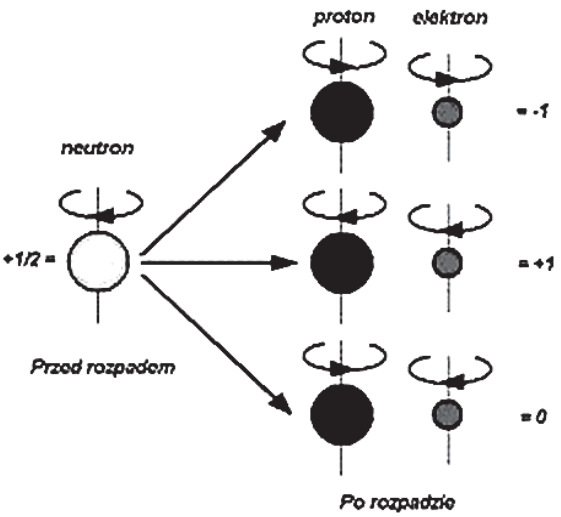


Figure 5.
Shows the movement of spin, - to the right or left

processed in the music for the whole body. Each frequency produces its own color note (Nicolaus 1997, s 354).

In terms of electronics and physics, melanin is characterized by the following features:

- the ability to absorb all wavelengths of light;
- properties of photoconductor and amorphous semiconductor (Strzelecka 1982, p. 227),
- increased resistance to light and ultraviolet light;
- generation of electrons and photons
- selective vulnerability to phonons, which means that cells with melanin are selectively sensitive to sound waves. (Sarna, Swartz 1994, s.339).
- melanin may function as a transmitter of photons and phonons in the process of reverse (Mc Ginnes, Corry, Proctor, 1974, p. 854);
- melanin is piezoelectric and pyroelectric, and that fact allows it to transform mechanical, thermal acoustic energy, electricity, and with it the electric field (Adamski 2011).

Melanin converts the electromagnetic wave in the acoustic wave, photon in phonon and vice versa: the phonon in the photon. Corry, Mc. Gines, Armour 1977).

Melanin has the ability to direct light, it can accelerate or delay its movement.

Melanin converts the light in the torsion field. Light travels in a vacuum, 300 thousand km sec and the torsion field at 10 to N, where N is the speed of light (Shipov 1996).

THE TORSION FIELDS PRODUCE SOLITONS.

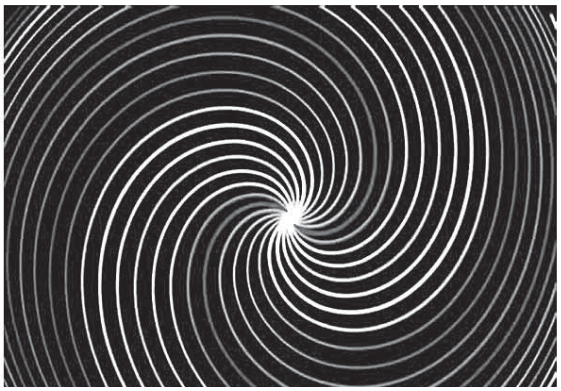


Figure 6.
Shows the formation of solitons

Torsion fields are conditioned by spin motion like the mass and spin charge is integrally linked to the particle. Spin is understood as own angular momentum of particles in the system. Each type of particle has an appropriate spin for itself. Spin is a purely quantum concept. In classical mechanics, the particle has zero angular momentum (Shipov 1995), (Akimov 1995).

There are left and right torsion fields (depending on the direction of rotation of the spin). Molecular, atomic and nuclear spins determine intensity of the torsion field. According to Shipov every substance has its own characteristic of the torsion field.

Transmission of soliton signal takes place not only to biological structures, but also to the psychological and spiritual realm- these are our mental, emotional and conscious states. The soliton waves exhibit incredible resistance to distortion and noise interference. Solitons keep their shape and velocity after a collision with one other. They transmit signals without necessity to move the water environment as a carrier wave. Only the spatial relations, i.e. only geometry of the constellation of water molecules and air without their physical participation, are carried-environment participates “spiritually” as a structural pattern. Soliton waves have other properties - when two soliton waves approach one another, they “note” and penetrate themselves, but do not overlap; then they diverge in the same order in which they last. They penetrate just temporarily, without losing their identity (Brizhik 1993).

Solitons can propagate in the entire universe, without decay; they exist from the beginning of life up to the present. Space is densely filled with a network of solitons, carrying the content and meaning. Brain, and each replication of the genetic code system have transmitter and receiver antennas, which transmit space”directives” (Edmundson, Enns 1995).

Signal transmission does not have to be made solely under the influence of electro-magnetic and acoustic wave or the electric field – in such a case solitons waves would function as an information carrier, and could have an impact on the energy-informational system of a human being and its behavior (Adamski 2005), (Brizhik 2003).

Human biological system is an integrated part of the piezoelectric and pyroelectric elements and semiconductors protein, nucleic acids, DNA, RNA, and melanins. In this circuit there is a biological system in the brain, central nervous system, which can control and coordinate the whole (Sedlak 1980)

Control is accomplished by a grid of the following information channels: electron, photon, phonon, soliton, and free radical, and also to bioplasm; any channels of These may be the carrier of information for the biological system in itself, or function as a team in the bioplasm system Interpreted as a set of elementary particles and Mutually interacting fields. (Sedlak 1979).

Melanins and neuromelanins contain large density of bioplasm and this fact affects the development and degradation of human mental processes. Further understanding of melanins' nature will bring essential contribution to the development of psychology, especially in understanding which factors constitute the essence of the nature of the mental processes. Possession of melanins, neuromelanins and bioplasm in the body forces the science to the new interpretation of the functioning of the sensory perception mechanism and the nature of human mental processes.

We cannot understand the collective unconscious without quantum psychology. Bioelectronic model shows that the biological system not only saves information about the life of the individual in its ontogeny, but also saves lives in the process of generational dimension, which is connected to the phylogenesis. This means that thanks to the electronic properties, a biological system has various opportunities for recording information about the experiences of individuals, the environment in which they live, but also has the ability to transfer this information from generation to generation (Adamski, 2008).

In summary, it is clear that the human psyche develops under the influence of energy factors and information of environment in which a person lives. The biological system plays a role of electronic devices and functions on an electronic material- piezoelectric, pyroelectric paramagnetic and semi conducting. Having this feature it can transmit information to the inside and outside system by electronic means. A major function for the personal development is played by bioplasm:

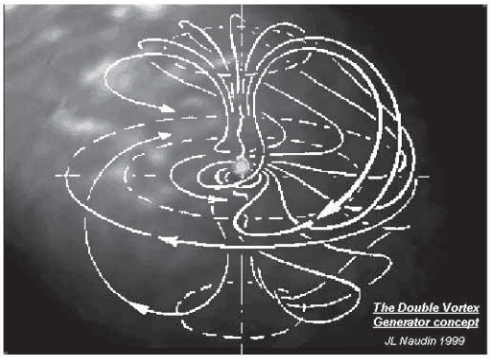


Figure 7.
Shows the function bioplasm, which task is to coordinate, integrate, store and manage energy informational processes in the human biological system

1. Bioplasm has the capacity to adopt environmental information and to process it at its own information system. The transfer of this information can be realized by means of fields and quanta. Sedlak 1979, s 240.)

2. Bioplasm is the carrier of magnetic, electrical, chemical, mechanical, solitonic, optical, acoustic, gravity information as well as torsion fields (Sedlak 1975, Shipov, Akimov 1996).

Consciousness is a "headquarter" of bioplasm and a "bridge" between mind and brain. The nature of consciousness cannot be explained by classical concepts of psychology, since it is located in quantum processes. This fact forces psychology to take into account quantum physics, in order to better understand the human mental processes.

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