



Meanings of Being and of Life: Universe, Earth, Man

A. Tetior*

Department of Environmental Construction, Institute of Environmental Engineering, Moscow Agricultural Academy, Russia.

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ABSTRACT

The study and analysis of problem of meaning of being of Earth and Universe, of life of separate persons and of all humanity, are very important aims of humanity. The research is based on the representation about the binary plural world, developing with bifurcations and subsequent convergences. Humanity and individuals are constantly trying to find meaning (sense) in his life, the meaning of being of the natural environment of the Earth, and of the Universe. Meanings of being and life are the essence, destination, and value of being and life. There is critical and unresolved question of existence of the Universe, Earth and humanity: what is the meaning of creation, evolution, and devolution of the Universe, Earth, animate and non-living nature, including humanity? Is there any meaning in these subjects and phenomena? The scientifically well-founded answer may be in our opinion: all subjects and phenomena of Universe, of Earth, of humanity have meanings. Holism of the World and solar system (the cause-effect relation and conditionality of subjects and phenomena of Universe and solar system) is graphic evidence of its independence from human activity, of evidence of unconditional meaning of existence of the Universe and solar system. The overall objective of animate nature is the resistance to entropy and chaos, support of natural evolution. Meaning of person includes binary plurality of meanings – from completely positive meaning to negative meaning and pointlessness of life.

1. Introduction

The matter in the Universe may have passive form (physical and chemical) or active form (uniformed life). The scientists use the concepts of being or existence at analysis of the forms of inanimate matter; for the active form, they use the concept of life. The meaning of life is a philosophical and spiritual identification of purpose of the existence of humanity, Homo sapiens and human as a biological species. This is one of the basic philosophical concepts, a subjective rating of the life of man and humanity, compliance of activity results to the original intent; the problem of life values; understanding by man of content of life, of the places in the World, of human impact on the environment. Perceptions of the person's meaning are individually, they are formed in the process of human life and activity, depending on the multitude of factors - age, health, education, economic level, religious and national traditions, social status, content problems, lifestyle, worldview, a particular historical situation. Life is qualitatively superior to other forms of existence of matter in the diversity and complexity of the chemical components and in the dynamics of passing transformation. Living systems have much higher levels of structural and functional order in space and time: they are the open systems that exchange with the environment by energy, matter and information. Unlike non-living systems, in them does not align of energy differences and adjustment structures towards more likely forms; continuous work takes place "against the equilibrium". Reduction of entropy in living systems is only possible by increasing the entropy of the environment [1-10].

2. Experimental Methods

2.1 Basic Conception of Search of Meaning

There is the representation about binary plurality of all subjects and phenomenon in the World, about the binary plural World, developing with bifurcations and subsequent convergences [1]. Such representation was used by author in analysis of the meaning (sense) of being and of life of

Universe, Earth, and person. The Universe is first in the analysis of the meaning of existence and life. There are several hypotheses about its origin and evolution, but problem of meaning of this process is not solved. Most likely problem of meaning of Universe is connected with hypotheses of its origin and evolution. There are hypotheses of development of Universe with complete inanity of this process, and hypotheses of development of Universe with complete meaning (sense).

Meanwhile the scientists found interesting data about the "mutual accordance" ("inter-suitability") of a number of parameters that contribute to the evolution of the Universe, and even to the emergence and development of life on Earth. The researchers called the "inter-suitability" as "happy coincidences" "who allegedly intentionally combined together in one Universe, to provide for our existence" [2]. Some "inter-suitability" of environment and life are exceptionally by likelihood of accidental occurrence cannot be justified from this point of view. Now, in condition of the absence of complete information and knowledge, they may be clarified only by activity of God, of the Creator, of supreme reason. Along with the amazing "inter-suitability", in accordance with the law of binary plurality, there is amazing inadaptability [1].

What is the meaning of establishment and subsequent evolution and devolution almost lifeless Universe, many elements, objects and phenomena of inanimate nature, and then the creation of unique (not yet found such objects only) nature of Earth? Whether they have the own sense (meaning) of existence, without regard to the humanity? Some researchers have the negative answer to this question: nature without man and his transformative work has no meaning and purpose. It includes ostensibly blind, purposeless forces, driven by natural laws. The person defines things and processes in nature. This statement is incorrectly. In fact, everything in nature is expediently; nature has a cognizable meaning (sense) or not yet until the end cognizable meaning (full knowledge is impossible). Universe, the solar system, Earth with all Earth nature, including humanity, have meaning, purpose of being. Holism of the World (the cause-effect relation and conditionality of subjects and phenomena of Universe) is graphic evidence of its independence from human activity (in fact man affects a part of nature within its capability), evidence of unconditional meaning of existence of the Universe. Famous writer and scholar St. Lem spoke ruefully about the future Universe. He took into account the attempt to simulate on a computer the next hundred billion years. Of course, it is not the ultimate truth: "I am convinced that everything has its beginning and end, including space, stars and our being..all stars will go off, as will burn

*Corresponding Author

Email Address: atetior@mail.ru (Tetior Alexander)

hydrogen, all the planetary systems will disappear, and will remain a giant void". The rueful statement is graphic evidence of absence of meaning of Universe in condition of acceptance of one of a number of hypotheses.

These results are not certainly truth. Scientific data permanently changes in view of movement of science forward. "Today all things are unreliable: physical constants are not permanent, this applies even to the gravitational constant". «... the matter collapses into nothingness. It forces itself from the space-time. This means that the compressibility of elementary particles is not an absolute quality, because after overcoming certain parameters of the gravitational pressures, they begin to shrink indefinitely. This is already beyond the boundaries of physics". The new data do not fit in physics, and it is far from the final results, it is the process of knowing the World. The humanity will obtain new data; the truth will never be definitively known, so it is not reasonable to talk about the ashes remaining from the Universe. Several hypotheses of the evolution of the Universe has changed in a short period of one person's life. Of course, such development assumes the emergence of new, more reasonable hypotheses in the future. The humankind will not never have complete data on the Universe. It is possible to suppose the meaning of creation and existence of the Universe: 1. The cause-effect relation and conditionality of subjects and phenomena of Universe and solar system is graphic evidence of evidence of unconditional meaning of existence of the Universe and solar system. 2. Presence of the amazing "inter-suitability" concerned with the role of the Creator. 3. The majority of the most important events in the Universe, galaxies, stars, solar system and the Earth would be not realize without evolution to binary plurality of elements and their properties. The Universe has the meaning with the infinite process of cyclical evolution, with a view to the possible development in the direction of forming of "living" planets with different forms of life. 4. Pilot testing of creation by the Creator of the World inanimate and living nature. The attempt of creation by the Creator of World of wildlife from inanimate nature, with a gradual increase of life forms, creation the number and variety of green planet among many non-living objects. 5. Attempt to create negentropic "islets" of wildlife, opposing the flow of entropy.

Author proposes the new mutual suitability in Universe. The time of rotation of electrons on orbits of atoms is not infinitely, the speed of rotation will become slower after over 100 billion years. After such time the matter must change fundamentally their properties. However, such time is equally with time from the initial big bang and the subsequent expansion of the Universe before compression in super hadron (Fig. 1). The matter will probably not modify fundamentally properties in view of the spin of the electrons. It testify to favor of a model of pulsating Universe. Here is an interesting problem of the forms of development and existence: perhaps a form of evolution is the bifurcation, and form of devolution is convergence; the form of being is the circle or the spiral.

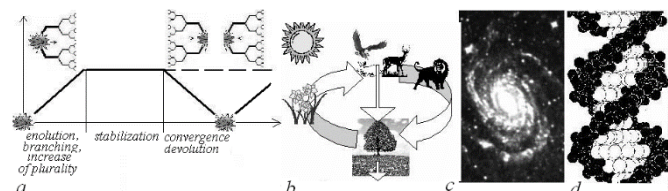


Fig. 1 The diagram of life of subjects (a); the diagram is realistic for model of the pulsating Universe, but its form is identical to all subjects; the dotted line shows a stop of devolution of nature of planet at duly intervention - ecologization, restoration of nature; circulation of substances (b), spirals of galaxies (c) and chromosomes (d)

It can be assumed the meaning of diversity of chemical elements in the structure of the set of non-living and living objects (up to creating of "bio-positive" elements for animate nature). There is an interesting hypothesis: "properties of chemical elements were known long before living creatures ...Without a doubt, someone as usual "Socrates" from Platonic dialogues could see an indication that the carbon, hydrogen and oxygen were created especially for the hereafter» [2]. May be the meaning of life of "green" planets is experimental verification of a method of creation by Creator of infinite cyclic existence of "green" planets with living nature to search for the best natural negentropic technologies to counteract entropy; the meaning may be in natural infinite cyclic evolution and devolution of the green planet with the animate nature. It is possible to talk about the development and evolution of the Universe only at the level of current knowledge about these processes. The meaning of Universe is connected with their real development and existence. There are now dozens of models of the Universe with various hypotheses put in their basis. General sign is the increasing plurality, and there are many models with branching evolution and converging devolution. Modern information about the evolution of Universes is as follows: 1. Universes evolve cyclically, with "explosion", growth of multiplicity and subsequent growth of devolution,

collapse; 2. Universes are eternal; 3. The Universe is finite. Information about the number of Universes is as follows: there is one Universe; there is multiplicity of Universes. Their lifetime is as follows: finite, before heat death; the endless, circular. Deepening of research of structure of Universe leads to the introduction of new concepts of dark energy, dark matter, vacuum, strings, "wormholes", branching, etc. The size and shape of the Universes is as follows: dimensions are finite; dimensions are endless. They may have many forms - ball, bagel, etc.; up to 10 measurements, one is time. Start time of Universe is as follows: from the big bang; start time is not because the infinity of existence. Physical laws acting in Universes are as follows: physical laws has the one Universe; many Universes have many physical laws. The ability to overcome the intergalactic space by person is as follows: 1. It is not possible (insufficient speed and resources); 2. It is theoretically possible through "wormholes". Presence of signs of organic life is as follows: they are at many planets; there are at small number of living planets; there is solitary Earth. The existence of habitable planets is as follows: a lot; there are separate planets; the lonely Land. The knowledge of the Universe is as follows: cognition is possible; Universe will not be known until the end.

It can be assumed the raison of being of solar system: 1. The Sun is the only source for all forms of energy in living nature. All of the various phenomena on Earth - the chemical transformations in the Earth's crust, the dynamics of the planet and its component parts, atmo-, hydro- and lithosphere are under the influence of the Sun. 2. Solar system ensures the rotation of the planets around the Sun and creates the necessary gravity. 3. The Sun influences on the processes on Earth by way of solar wind stream, composed mainly of atoms of hydrogen nuclei (protons) and helium (alpha particles) and electrons. 4. The Sun influences on the processes of the Earth by way of the flows of energetic charged particles (mostly protons, nuclei of helium atoms and electrons) with an energy of 106...109 electronvolts (EV) - solar cosmic rays. 5. The Sun ensures the vital cycles of day and night, winter-summer.

The meaning of being of the Moon is as follows: it participates in vital processes on Earth. What is the meaning of life in the inanimate environment? There are the following hypotheses: 1. Creation (God, the Creator, the Supreme mind). 2. Spontaneous generation. 3. Biochemical evolution. 4. Panspermia. 5. Steady state life (almost unreal). More accepted in science is now the hypothesis of biochemical evolution. In existence of the living and non-living objects is a lot in common. They characterized by life-cycle diagram (being, existence), with a trough-like shape (Fig. 1). For the evolution of the Universe is characterized by development, growth from the simple to the complex, which in the form of a fan-out, leading to a multiplicity of objects and phenomena (to the "tree" of growth). Devolution of the Universe is the movement towards the end of its being ("life"), including galaxies and stars, with their luminosity, radius and temperature, with convergence of multiplicity. The evolution of the organic world is the process of branching development ("the tree of evolution"), growth of the diversity of life forms from simple to more complex and highly organized, growth of many relationships, with the continuation of the life of simple shapes. Devolution of the organic world is the opposition of evolution, with the convergence of the branches and the decline of biodiversity and complexity, with degeneration, reducing space and loss of the natural world, with disappearance of species. Assessment of the meaning of life nature Land is very important to Earth and for man as a part of it. From the beginning of human development, the person has the extremely simplified (unipolar) notion about nature as source of the fullest satisfaction of human needs. The people uses the nature not ecologically, consuming its resources, polluting nature of the waste.

The meaning of being of the nature of the Earth must be independent of man, but man by its large-scale intervention affects a part of nature, and partly on its meaning. All animate nature has, in our opinion, unconditional meaning (objective existence), which consists in the transmission of hereditary information (program of life, of future action) to every living organism. However, for most living organisms, this meaning is unknowable, while the program is running.

Meaning of the being of lifeless nature of Earth is very interesting. Atmosphere have a number of critical functions: living organisms use the air as a natural resource; the atmosphere acts as a protection of the Earth from the flow of solar and cosmic radiation in a wide range of wavelength and energy from solar energy; without the atmosphere the surface of the Earth would heat up more than 100 °C; atmosphere protects from the fall of meteorites, burning in the atmosphere. Landscapes also have a number of critical functions: 1. Landscapes support the biodiversity. 2. They offer a variety of ecological niches for flora and fauna. 3. The lithosphere have critical functions: it provides largely circulation of substances and creates conditions for the life of the Land. Pyro-sphere of Earth cooled slowly; the hard shell of Earth thickens and the fire shell thickens. This led to the formation of solid stone slabs of continents, moving slowly around the

planet. Exogenous and endogenous processes continuously change the hard surface of the planet that effects on the biosphere and on the environment of living. Shape of continents and oceans, climate and atmospheric composition are in condition of change. 4. Hydrosphere is extremely important to create the conditions that support life on Earth: it serves for biological and biophysical processes in organisms, for photosynthesis and release hydrogen, for geological transformation of the planet. Water vapor in the atmosphere filters the solar radiation on the Earth's surface; water softens the effect of high temperature.

Meaning of life of animate nature of the Earth is complex and diverse. The overall objective of animate nature is the resistance to entropy and chaos, the ensuring of natural evolution. Flora has meanings: 1. It serves for organic production, ensuring food for all life on Earth. Green plants get necessary for their life energy from the Sun, which is the main source of their livelihood, contributing to the production of organic compounds from inorganic substances. This is a global function of green plants that supports the life and development of the entire fauna. 2. It produces the oxygen and absorbs CO₂. 3. Soil and vegetation layer ensures the circulation of substances to sustain life. 4. It provides ecological niches for animals. Fauna has meanings: 1. Participation in the cycle of substances in the food pyramid. 2. The maintenance of biodiversity. 3. Participation in the life of flora.

3. Results and Discussion

There are many opinions about meaning of being and of life, including man, humanity, Earth and Universe [1-10]. However, the humanity has binary plural qualities. The general meaning of human life and humanity consists in ensuring of conditionally infinite natural evolution and conditionally infinite survival of humanity together with nature of Earth. In compliance with the binary plurality of the World and of characteristics of humanity, the meanings of human life are plural, ranging from serving God and the salvation of souls to altruism, from self-improvement to service to society, from "Nirvana" to achieve happiness and hedonism, from pragmatism to Daoism, from negativism to satisfy perverse desires, etc. Study of binary multiplicity of World led to the creation of the philosophy of the binary plurality of branching and converging World (A. Tetior, 2013 [1]). This provided an opportunity to consider the most important for man and humankind the concept and content of their meaning of life from the perspective of the binary plural World. Therefore, this provided an opportunity to include a wide range of concepts of the meaning of life, including opposition meaning-meaninglessness, and many intermediate meanings, in many combinations for many people.

Awareness of the actual binary plural meanings and inanity of life enables more objectively perceive this trait of mankind and influence the possibility to inculcate in most of humanity a positive, fully well-founded meaning of life. Humanity has the binary (doubly) plurality of meanings of life of separate persons. The meanings change from full and harmonious

realization of abilities to meaninglessness, from fully positive to negative meaning, from completely virtuous to sinful meaning. Private life of person is going over a long period; the time is greatest value of person. Value lifestyle is the ability of harmonious deployment of their abilities, self-realization. Its value is in love, in family, birth and child development. One of the values is to obtain new information, emotions, and feelings. The value of life is the ability to communicate, the presence of friends, a circle of like-minded people, exposure to the arts. However, the average person can be placed in such conditions when person has to feel the only biological value of life: for example, the need to nurture children and ensure minimum family, for what he had to work hard, not to think about any deployment of its forces and emotions only in the artificial version, via the TV. For many people, the notion of the meaning of life (and the more virtuous meaning) simply does not exist. At the same time, there are many persons with the more or less negative meaning of life (instead of meaning of life, they have the pointlessness of life). Vicious persons, criminals, drug addicts, etc. may be considered to such people. The meaning of life of person is the complicate and binary plural notion.

4. Conclusion

The representation about binary plurality of all subjects and phenomenon in the World, about the binary plural World, developing with bifurcations and subsequent convergences, helps to understand the presence of plural meaning of being and life of all subjects and phenomenon in the World. Such representation was used in analysis of the meanings of being and of life of Universe, Earth, and person. Research of the meaning of being and life are crucial for human and humanity.

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