

## Cosmic Substance

### The "Consciousness-Energy-Matter" Triplet and its Evolution

#### Czesław Cempel Abstract

This contribution tries to examine how an educated human being can imagine what this universe, or our world, is composed of, and how it is built. Only one non verifiable assumption is made, that that an ever present evolutionär) drive is acting in the Universe as a so called evolutionary paradigm. Depending on the inclination of the reader, it can be called GOD, Primary Intelligence, or Field of Primary Intelligence. Next the notion of cosmic substance is introduced consisting of the "consciousness - energy - matter" triplet. The consciousness is a nonreducible "funda-mental" notion, and the Einstein matter-energy equivalence on the physical level of substance existence is fully recognized. Under such an assumption and the evolutionary paradigm, the pyramid of substance evolution is derived, beginning from the physical substance, bio-substance, emotional and mental substances - up to the spiritual substance. On every level of the substance evolution with all its entities in existence, new qualities are emerging and adding to the previous ones. The pyramid of substance evolution also means the pyramid of life and food. From the one side it means that higher life springs out from the lower life. And also it is quite visible in the pyramid of food, that the higher life (entity) eats lower life (another entity). If this analogy is valid, also at the peak of the pyramid, one can draw strange conclusions, validating for example human abduction by more advanced beings (UFO), etc. Not going so far it seems to the author that this concept may help someone to understand our world and the universe. That is the main message of this contribution.

#### Introduction

The discussion on "energy" which goes on from time to time on NETWORK [ 1 ] the Journal of Scientific and Medical Network in Britain, has forced me to think in this way and generalize this thinking into the form of cosmic substance and its evolution [2]. Summarizing, it is the idea that the cosmic substance, which is the building block of "all that is", is the triplet consisting of "matter, energy, consciousness". The evolution paradigm, the guiding principle of the universe, makes this substance more diverse and complex, giving as the result any entity we can observe here. This ranges from all types of the physical/chemical substance, biosub-stance, emotional and mental substance, up to the spiritual one. This was the main message of the previous paper [2].

By surfing on the Internet, the brain of our contemporary world, I have come across several very interesting sites, the most important to me being the Physics Consciousness Research Group (PCRG) [3] of Jack Sarfatti. This gives me much new food for thinking and new arguments to change the proposed order in the triplet of substance into the new one, namely, "consciousness-energy-matter". In the previous contribution [2], the equivalence of substance components was postulated, and now under the influence of the Internet material [6], I am fully convinced that we need "consciousness" as the "fundamental" new entity, not derivative and not equivalent from the previous "matterenergy" doublet, with its famous equivalence of Einstein  $E = mc^2$ . (with  $E$  as energy,  $m$  - mass and  $c$  - the speed of light). The evolution part of substance and its pyramid here is also changed a little in comparison to [2], as it is introduced here the old and known concept of food chain and pyramid, into the pyramid of substance evolution.

#### The "consciousness-energy-matter" triplet

To the previous argumentation for the independence of consciousness component of substance [2] I can now add the argument of leading post quantum physicists. As Jack Sarfatti interpretes Bohm's *The Undivided Universe* we should distinguish between "passive" and "active" information. "The passive information can be understood as Shannon's "quantitative measure of information that represents the way in which the state of the system is not certain to us" [4]. "Active information is "quite a different notion of information not essentially related to our knowledge or lack of it. (...) it will be the information that is relevant to determining the movement of the electron itself [4]. So, the active information has "intent" and is capable of making action using the energy of the other system that is to say, to inform the energy of the driving system, usually of a much higher order of magnitude. This should put to rest the common confused New Age cliché that all energy in the universe is conscious. Most energy is un-formed classical localized energy, and only a small fraction of energy in the universe is in-formed, active but not conscious [3]. One must admit also that, if passive information is interpreted by some consciousness, like reading the map by man [4], it becomes active.

Trying not to go into details of Sarfatti's consciousness theory, based on Bohm's results and his post-quantum physics [5], let us invoke again the evolution paradigm as the needed component of Shannon's passive information in order to be an active one. and serve as the building block of evolving consciousness in the universe. The simple explanation of the passive information component, of whatever entity in the universe, is to answer to the question "how to make it", or know how, and as we can see, even the atom of hydrogen contains this type of information. The way of quantization of it may differ depending on the needs and conditions, like for example Winawarter's proposal based on Shannon information and the energy redundancy [8, 9], explained also last time in [2]. So we propose here, that passive information complete with evolution paradigm gives active information and it is the basis for the evolution of consciousness.

As for the other components of the triplet much has been said already in science, and we will synthesize it here interpreting for our needs. Concerning the unanimated matter, the domain of classical and quantum physics, the equivalence of matter has been established by Einstein in 1905 by his famous  $E = mc^2$ . In

quantum physics this equivalence is so obvious that we express even the energy in units of mass. But going deeper into the fluctuations of the quantum foam, or the quantum vacuum, the universe's fabric of the nature [7], one can say that this equivalence here is the essence of the nature and sometimes it is called the sea of the energy, so the energy at the bottom seems to be the first ingredient. But going higher into the evolutionary ladder of the substance this "matter-energy" equivalence is not so obvious, even if we limit it to the equivalence on the given level of existence. For example, on the level of bio-matter and bio-energy, or emotional matter and energy. This will be seen in the next paragraph when we will talk on the substance evolution.

#### The pyramid of the substance evolution and feeding

Thinking on the nature of the substance in general we should distinguish the different levels of systems that exist in the universe, and characterize the main qualities of "consciousness-energy-matter" triplet on each level. We should remind ourselves, that the evolution paradigm will act horizontally on the given level of existence, and vertically giving the new level of substance existence. Horizontally, it will give the diversification and the growing complexity of entities, as for example, from the hydrogen atom up to the most complicated chemical organic compound. Vertically, it will mean the emerging new qualities of substance existence or new life.

Starting from the physical level of existence we should begin from the gravitational, strong/weak nuclear and electromagnetic energies. Differentiating them in the process of evolution in all forms of physical/ chemical energies, we can come finally to the acoustical energy carrying the subtle sounds of the 9<sup>th</sup> symphony of Beethoven, or to some other sophisticated chemical energy of interaction in albumen. These energies express themselves and build the matter on the physical/chemical level starting from the atom of hydrogen up to the most complicated chemical compounds (albumens) or viruses, in dependence of our boundary with the next level of existence. Along with that diversification there is growing complexity of inherent information in the "matter-energy" doublet, and we can calculate it in some way as for example in [8, 9]. The most important qualities of the "consciousness-matter-energy" triplet on this level are cohesion and motion. The first, the cohesion allows the binding of the sim-

<sup>1</sup> As far as I understand this theory, 'the wave function of a particle or system is treated here as a mental component creating the quantum potential, which acts on the matter under consideration. The important new invention of Bohm-Sarfatti is the 'back action' of matter on the wave function, enabling it to make self referential loop, the basis of consciousness of any type

pie entities into the more complex ones, and the motion allows the spreading of the above into the various niches, where evolution may try to produce better and new results, and new qualities.

In such a way of vertical evolution the new type of biosubstance and new qualities emerge, these are the growth and the self reproduction added to the previous qualities here on the bio-level of the cosmic substance evolutionary existence. This new type of substance consists of biomatter, bioenergy and pra-consciousness which we can subscribe to plants and simple animals. Diversification of biosubstance will mean here the building of more specialized parts and organs of living entities. The informational component of the substance is much more organized and complex on this level and can be described as for example morfogenetic field of Sheldrake [12], consisting of the structural information which informs animated and unanimated substance and so every being there. Due to the action (in-formation) of this field the remaining part of a worm "knows" how to outgrow the loosened part, and the wound of animal or human "knows" how to be repaired. These morfogenetic fields evolve to pre-consciousness of plants and simple animals, and next to the consciousness of advanced animals, self-consciousness of human beings, and the universal consciousness of spirit on successive levels of substance existence

With the biosubstance diversified and evolved enough we have the next evolutionary lap to the emotional substance as the "consciousness-energy-matter" triplet, much more visible in the behaviour of higher animals. Here we can see for the first time new qualities of emotional substance, namely: simple emotions like hunger, hate, fear, and the beginning of the social behaviour like herd instinct, mating for procreation, etc The existence of these ways of behavior of living entities is obvious, so it must be obvious also of the existence of the substance which enables such behaviour, so emotional matter for storage, emotional energy for action, and emotional consciousness for the meaning and intent of the given expression of emotion.

When the "physical-bio-emotional" vehicle of some entity is ready, and in full spin, the mental substance is emerging as the next, with its new qualities: love as the offspring of the social behaviour, and creativity as the by-product of thinking and intuition. As we all know from the observation of our fellow beings, the range of these qualities may span from selfish love of poorly evolved humans up to the impersonal love of the humanity, of God, and of the universe. The same is in the creative ability, ranging from day-to-day activities up to the genius of Mozart or Einstein. Assuming that we humanlike creature are not alone in the uni-

verse, or may be as some claim on Earth too [10], one can imagine by analogy the level and magnitude of expression of emotional and mental qualities of other humanlike creatures!

The qualities of mental substance seem to be rational, but the idea of mental "matter - energy" couple as mental substance seems to be a little strange. But when we look for the long classified research concerned with remote viewing, thoughts transmission, telepathy, etc... (see for example [15, 16, 17, 18]), and looking at more holistic references (see for example [13, 14]), we will come quickly to the conclusion that there must be some agent of transmission - mental energy, some object of transmission - mental matter and the meaning and intent as for the consciousness.

Finally, this seems to be possible to accept, but what about the next evolutionary lap, evolution will not stop due to the lack of imagination and/or courage in us! So, let us name the next level of the substance as spiritual with new qualities as nonlocality and immortality, as it seems to be ever on the quantum level [3]. In comparison to the previous level, where the results of action of mental substance is visible to all of us, this next evolutionary lap is hard to accept or believe. This maybe because not every one of us has the access to the substance of such high level of evolution. But let us accept it as the working hypothesis for further progress, which according to Popper will then undergo a falsification process.

If so, our five senses are not enough to identify all levels of our pyramid and fully participate in the life and the evolution of the world. As humans, we have to develop the sixth sense with the full development of emerging Extra Sensory Perception (ESP) [18]. As G. Zukav is postulating [19] we should develop as multi-sensory being in the next evolutionary step of humanity. This is in order to reformulate the evolutionary goal for humanity, from extending our power of control to extending our understanding of the world and ourselves.

### Interaction and cooperation of substance of different levels

When we synthesize all what has been said here we can build the pyramid of substance evolution as it is shown on Figure I. As it is seen here it represents not only the pyramid of substance evolution but the pyramid of life and food as well. What we see from this is that new type of life springs out from the well established type of life. Not only this, life means also (based on) transformation of substance, so the "matter-energy-consciousness" triplet. So, an entity of higher level of organization consumes substances or entities of lower levels of organization. Does it sound inhuman, or irrational? Maybe we should change our criteria? Maybe it is true with respect of the matter, or energy, as we humans eat some plants and animals. But is that true also with respect of consuming the consciousness? Do we not remember how our beloved pet (cat/dog) is happy when we are coming home, how we are happy that someone is waiting for us and needs us? Or from the other side, some people are happy creating fear in another one, not to mention violence and torture. From this

The division of the evolution pyramid into the six levels is arbitrary, springing from the Western European metaphysics. It may be different when coming from Hindu or Buddhist-Zen metaphysics, but the essence of substance evolution will remain the same.

analogy we can imagine ourselves what more evolved beings, humanlike or not, need or are taking from us, for good and for wrong? Hard to imagine, is it not?

The other question we should investigate here is the way of interaction of substance or entities or both within the given evolutionary level, and between different levels. Also some applicational questions emerge as to how to control these interactions in the most effective way.

At first we can notice that the energy of the lower level can easily influence the life of the neighboring higher level. For example, heat can destroy biosubstance, but can not do this with emotional substance. The same, the living entity not well feed (biosubstance) will express poorly its emotional state, and the human being when in poor emotional condition will think poorly too. Again by this analogy, poor thinking does not produce the high quality of spiritual substance? But it does not mean that

matter produce spirit, it may mean that mental substance and self-consciousness may produce it, when conditions are proper.

Going down the evolution pyramid (see Fig I), in the involution direction, we should notice also the possibility of interaction but with much lower efficiency. Here the greater the distance between levels the lower the efficiency is. We all remember how rarely we can observe psychokinesis (PK) in humans, but more and more we hear of distance healing, mind reading, telepathy and the like use of multisensory abilities of humans [14, 15, 16, 17, 22].

Having specified the three components of the substance, together with its new consciousness (active information) component, the next crucial question emerges. Does the just elaborated concept of substance enables or indicates how to control it?

We know we can exhibit control on the level of matter-energy doublet. But what about the information, or much better the consciousness component? At first.

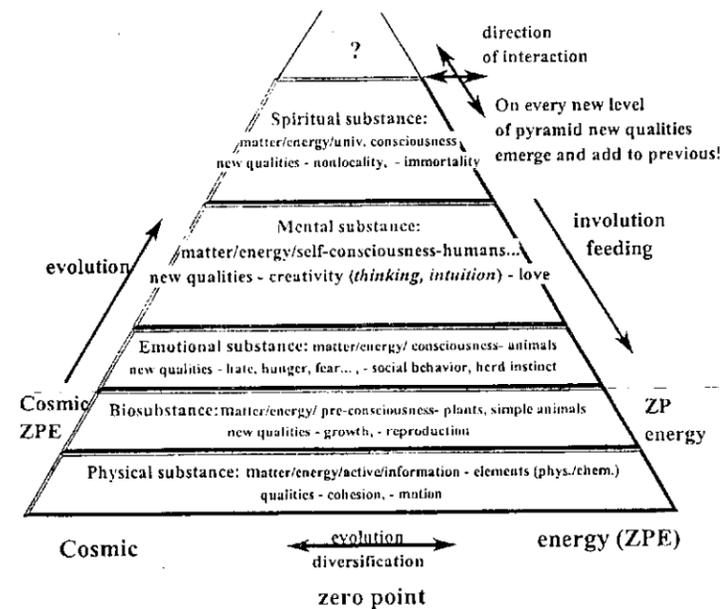


Figure 1. The Pyramid of Substance matter /energy/consciousness evolution and involution

and in a more crude way, the control of substance can be realized by the interaction of energy from the outside, it may mean the intended flow of energy, directly applied force, acting EM fields, chemical interactions, etc. Secondly, the control of the substance can be made by the use, or the change, of the system (substance) information, when knowing the code or controlling the system by the intelligent (active) energy from the outside, for example pumping the energy to obtain laser effect [11].

Thirdly, it can be controlled by the tuning in, into the given level of the consciousness, of the substance or of the individual(s). So, the higher consciousness -lower consciousness interaction and control. We can give examples for the above beginning from the simple cases of psychokinesis (PK) [15], i.e. moving the physical substance by the mental one, up to the much sophisticated cases of instantaneous creation of physical matter, psychic surgery, etc. Well known the Indian guru Satya Sai Baba can control for example the physical substance level making the ring "out of the thin air" [22], just for a wish. Further on this way of consciousness control, an idea from outside sometimes possesses (overhels) the individual(s), giving mob consciousness, walking on fire, deep hypnosis (see for example [15]), etc. On the verge of it we have holographic input of virtual reality, artificial or introduced by another consciousness, etc.

This all may be possible, when taking into account Laszlo's (20) hypothesis of F field, which by the principle of united interactive dynamics (UID) unites all phenomena, beginning from the quantum vacuum up to the human psyche. This F field, as psyche of all entities in the world, may serve as the information, communication and the evolution tool. This consciousness-substance interaction of any level may also be explained by the new emerging quantum theory of consciousness of Sarfatti [7]. To the laymen, as is the present author, it may be

to complicated to explain. But one can imagine, that some advanced consciousness has access to the consciousness of the quantum foam (back action of Bohm - Sarfatti [5]), where the physical matter energy equivalence is directly in constant action (see for example [7]), and by presenting here "know how" it/ he can directly obtain the result. This may be in the form of ring, psychokinesis, psychic singers', and the like and also much more complex. One word more seems to be needed concerning the communication ability among the conscious entities. At the beginning it enables only the transfer of information needed for survival (fly of the bee describing new source of food), and uses purely physical channels and senses. But next among the higher animals we can observe the beginning of emotional communication, for example between mother and her offspring's planned to use even for military purposes [16, 17]. On the higher level of human self-consciousness we can observe the beginning of the use of mental communication (telepathy). On the next higher level of the pyramid we have possibility of the spiritual communication, and the many contemporary records of channeling seems to be the sign of new emerging ability in humans. As every ability it must be mastered, what goes with many errors, and abuse as well.

## Conclusions

Cosmic substance is threefold, it is a "conscious-ness-energy-matter" triplet in evolution, with consciousness and matter/energy as "funda - mental" components. The evolution of substance goes from the physical level of existence by emerging new levels of existence and beings, up to the spiritual level of most advanced multidimensional and multisensory supra-human beings. Outside of that, when thinking by analogy, it gives some

insight as to the behaviour and possible goals of higher beings than humans. Finally, the concept of a three substance component, and its evolution, seems to be sound and giving the rationale results within the range of assumptions made here. If it is so, we can say Man is god-like in potency, but at first he should acknowledge it, then learn it, and use it [21,15], hopefully for the common benefit.

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