

3rd International Conference on Earth Science & Climate Change

July 28-30, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

Prospects of applying fractal technologies basing on the principles of the natural transfer of water properties via its patters

Igor Mirosnik and Vladimir Schepilov

International Academy of Information Sciences, Russia

The issue of the information properties of water has received a new boost lately due to the research in water structuring, which is both of applied and practical significance. This question is being treated in a much wider spectrum that also includes the information properties of liquid media, in particular - at the edge of changing their aggregate states. By liquid media we mean any liquids - from emulsions, solutions to melts, including those of metals. These properties are known to feature a strictly expressed field form, i.e., every known field (heat, acoustic, electromagnetic, gravitational, torsion, biological, psychic etc) in a widest spectrum of frequencies. It is suggested that the autonomous complexes of the systems are not built of separate "elements" of structures or processes but of certain self-contained link groups, capable of possessing some quite defined properties, functions of this or that level in the system organization also being responsible for the specific properties of systems and the inter-system interaction and relationships. Regarding water, from molecule to hydrosphere, our speculations would look similar in emphasizing the system of invariants of the multi-phase water cycle with its part in a variety of local climatic, weather, geochemical, and biospheric processes, where we wish to demonstrate that such water patterns are present.

Conclusions: Considering the above, we would suggest that liquid-phase matters being put in a medium with field structure are capable of self-organizing as cluster forms, parametric and molecular structures. At phase transfer (crystallization and module-parametric transitions) there manifest some fractal properties in the formation of crystal and parametric structures that reflect the medium field structure. Basing on this principle, we can control the external field structure of water by creating aqua protectors, applicable technologically and biologically and featuring a variety of pre-determined properties. A new presentation of synergetics and information has been made with regard to water-self-organization. The natural cycle of water exchange has been analyzed. A model of the technology of ecological homeopathy has been presented to serve as a way of restoring the purity of natural processes and their cycles. Some basic conclusions have been made. As an example of a wide-scale application of fractal technologies, we offer a solution of the problem of deactivating the oil and COREXIT 9500 dispersant in the Mexican Gulf oil-spill area without applying chemical or bacteriological matters.