

**Review of Georges Chapouthier's,
"The Mosaic Theory of Natural Complexity
(A scientific and philosophical approach)"¹**

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Internationally distinguished French neuroscientist and philosopher Georges Chapouthier established the elegant Mosaic Cosmology. Mosaic is a picture that is made by a set of shell-pieces, glass-pieces and others. That is not a simple set of pieces but one small cosmos that an author combines and integrates. The notion of mosaic used symbolically and metaphorically by Professor Chapouthier is extended in his scholarly work to biology, human beings, society, the world and the universe.

First, the basic stand point of Prof. Chapouthier is the evolutionary theory of Darwin and the natural selection. Then he explains the evolutionary process from molecular and protozoan levels to complex living-beings by the use of mosaic. For instance, he explains the evolutionary change of unicellular Protozoon (one mosaic), to many cellular organisms (Gonium: 8~16 pieces of mosaic) and to a spherical body organism (Volvox: solid mosaic of thousands cells). The operations of the mosaic set and evolution are juxtaposition and integration. Cells are juxtaposed and discriminated as same cells or different cells. Then these cells are integrated. This process is logical dialectics that Aristotle introduced and Hegel made come into flower in the modern age. Prof. Chapouthier includes materialistic dialectics (Engels) and ideological dialectics (Hegel). This dialectics is similar with 'Absolute Dialectics' by the Japanese philosopher Hajime Tanabe.

Prof. Georges Chapouthier challenged to adapt the human brain with the mosaic theory. He skillfully explained that the forming process of the cerebral cortex, cerebellum and medulla, from the embryonic stage is the mosaic integration. 'The

¹ The book's jacket is available at the end of this reviewing. Chapter 1 of the Book is available at:
<https://books.openedition.org/emsha/208>

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cerebral cortex is found as mosaic of many function areas.’ The Brodmann Area proves this assertion. If man sees the colorful Brodmann Area, man can clearly understand that brain is the mosaic structure. Prof. Chapouthier presented firstly that Brodmann Area is the mosaic design. If man sees the symmetry of right brain and left brain, this theory would be firmer. The physiologist Kurt Goldstein, and Wolfgang Köhler the gestalt psychologist and several others emphasized the organic relation. By these achievements, Maurice Merleau-Ponty in France opened the body-theory. But the theories of Goldstein and gestalt psychology remained the theories of physiology, psychology and culture. The body-theory of Merleau-Ponty reached to the theory of the human society, but it could not develop to cosmology. Prof. Chapouthier daringly develops to human spirit, memory, language, drawing, mathematics and information theory, society, culture and cosmology.

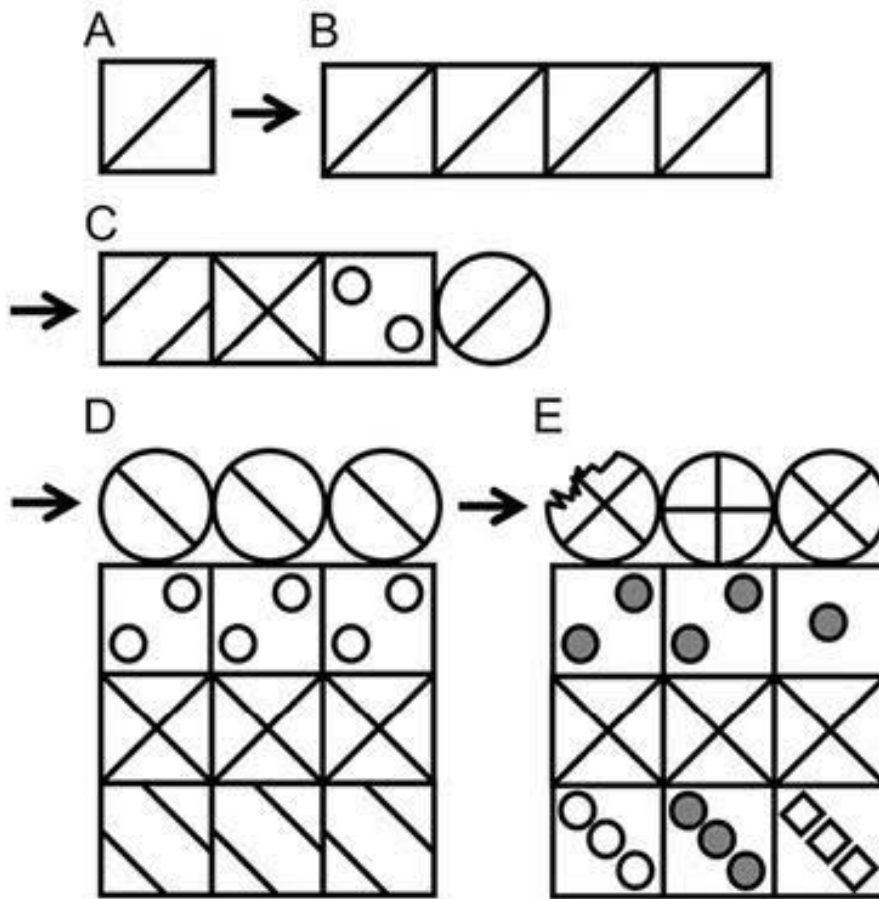
I pick up some unique instances. In the field of the theories of language and culture, according to the experiments of Prof. Chapouthier, Chimpanzees have the understanding of an infant. A Chimpanzee wrote a drawing similar to a three years old child. The study of chimpanzees by Prof. Chapouthier is a worldwide achievement that relies upon the life together with the chimpanzees in the institution. The picture of him holding the chimpanzees and the report were translated into Japanese and published in a scientific magazine in Japan. There he was introduced as ‘Doctor of chimpanzees’. By these experiments, he asserted that animals can use tools, language and communicate with others. Still more, animals can demonstrate moral behavior (parents defending offsprings) and esthetic choice. It seems that animals have nearly human emotions and culture. From the total biology research of Prof. Chapouthier, we feel the kindness to animals and the spirit of love for all living-beings similar to Buddhism mercy.

Concerning language and culture, he applies the theory of mosaic to Haiku, Japanese poetry. Haiku is composed of three poetries. But these poetries are not a set of language but are the semantic mosaic. It was extended to Renga ‘linked poem’. As this approach is very novel, man cannot find such explanation in traditional literature research in Japan. Further, Prof. Chapouthier treats of the achievement of the Japanese revolutionist Kinji Imanishi. He was the founder of primatology in Japan. According to Imanishi in a small island, a monkey that understood how to wash a

sandy potato with seawater and to eat it, taught the behavior to other monkeys and the next generation of monkeys. Prof. Chapouthier is interested in Japan and Asia, his broad view is excellent.

A decisive sample is his cosmology. He completed the theory of the artistic mosaic, accepting the theory of Jean Audouze, French astrophysicist. Prof. Chapouthier explained the mosaic structure of the universe depending on the micro and macro analysis of the universe of Aristotle. In short, there are mosaic and metaphor correspondences among earth, moon, solar system, galaxy and a cluster of galaxies. The solar system includes the earth and the moon, galaxy includes the mosaic of the solar system, the cluster of galaxies includes the mosaic galaxy. This mosaic is applied to the expanding universe, too. Up to now, in the set of galaxies, if man says that the order is, it is. If man says that the order does not exist, it does not exist. Man can say nothing. From the view point of Prof. Chapouthier, there is the expanding universe mosaic. He can establish mosaic cosmology, but his quest is not over. The quests are the researches of human existence, transcendental being and energy concept of the universe that includes physics.

Finally, I want to introduce the theory of Biocosmological Association and the philosophy of Prof. Konstantin Khroutski that supports the theory of Prof. Chapouthier. The president of the Association is Prof. Xiaoting Liu, of the Beijing Normal University in China, and the chief editor of the BCA journal “Biocosmology – neo-Aristotelism” is Prof. Konstantin Khroutski. The name of the group of articles is “Biocosmology-Neo-Aristotelism” and is published under the philosophical idea of Prof. K. Khroutski. There are many creative precious articles. The width and depth of ideas and originality are the first class in the world. The school reconsiders the theory of Aristotle, the ancestor of all sciences, as contemporary theory and considers the world, the universe as the movement and development of organic energy. Mosaic is a symbolic, figurative expression of the organic movement of the universe. Formerly Leibniz preached the monadology as the mirror of the universe, now Prof. Chapouthier raised the elegant mosaic cosmology by “mosaicology”. I coined this term to explain Prof. Chapouthier’s philosophy. This, along with his accomplishments, can be said to be the fruit of Prof. Khroutski and the colleagues of a new Aristotelian school, e.g. Serbian Philosopher Prof. Milan Tasic.



GEORGES CHAPOUTHIER

THE MOSAIC THEORY OF NATURAL COMPLEXITY

A SCIENTIFIC AND PHILOSOPHICAL APPROACH

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