

SYNERGETIC LINGUISTICS AS A NEW PHILOSOPHY OF LANGUAGE STUDY

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Abstract

The article deals with the new philosophical interpretation of the structural organization and development of language as a synergetic system. Consideration of language as a complex open non-linear fluctuating system, which functions and develops according to synergetic principles, promotes the formation of a new transdisciplinary science – synergetic linguistics. The formation and development of the new branch of applied linguistics depends on the study of various lingual phenomena from the standpoint of synergetic philosophy and methodology. The use of synergetic methodology for language studies proves the appropriateness of so-called "non-systemic", "irregular", "transitional" lingual phenomena and processes, proves the necessity of their existence in a functioning language, determines mechanisms of language super system self-organization, provides opportunities for determining the trends of its development.

Key words:—synergetic linguistics, fluctuation, self-organization.

At all periods of the history of humanity, science as a social phenomenon used to solve different current economic, political, and social problems of society, using the topical philosophic theories, research paradigms, and methods which dominated at that time. In the second half of the XXth century, the famous Belgian physicist and philosopher I. Prigogine developed a new concept of understanding the nature and essence of the world as an open non-linear multivariate system, capable of self-organization and self-development. After studying thermodynamic systems and discovering the principles of their development via self-organization I. Prigogine put forward a hypothesis about the relevance of his theory of instability and self-organization to any systemic objects of material and immaterial nature (Prigogine, 1989). It is necessary to note that the peculiarity of synergetics as a new scientific branch is that it does not deny the laws of classical science, but complements and completes them by offering a look at the studied objects from a new angle of research. Synergetics, or the theory of self-organization of systems, deepens and



expands our knowledge of the world, involving in the circle of scientific research, phenomena that, although not deterministic and logically explainable, but are an integral part of our lives.

Synergetics is expanding its "borders" constantly and continuously due to the universal character of the laws of self organization and evolution, its patterns and methods, developed within its framework (Prigogine, 1977; Budanov, 2006). Researchers compare the growth of areas of application of synergetic models and methods with the expansionary policy of some states (Knyazeva, 2001, p. 99).

The social sciences have recently become one of the "vectors of expansion" of synergetics. Thus, there is an active integration of synergetics in the linguistic researches, which mainly transfers its ideas, methods, and patterns in the study of various linguistic phenomena. However, the present achievements of scientists in the studies of linguistic phenomena, made by extrapolating the ideas and principles of synergetics, can be considered only the first steps in the formation of a new scientific paradigm

of linguistics –synergetic linguistics.

On the one hand, continuation of research work in this direction should expand our heuristic possibilities and extend our understanding of the advantages of the new scientific paradigm, and on the other – to promote the further development of linguistics as a science. Scientists still have to solve various problems of this new branch of linguistics, in particular, the problem of scientific reasoning of the synergetic methodology in the study of linguistic phenomena; determining the mechanisms of self-organization at micro-, macro- and super-levels of a language system; the problem of defining the role of "non-systemic", "irregular", transient phenomena in language and explaining their necessity for a language development, etc. The novelty of the synergetic paradigm and its linguistic perspectives determine the relevance of further research in this field. Synergetics is usually considered in three aspects of its interaction with society: 1) synergetics as a picture of the world; 2) synergetics as a methodology; 3) synergetics as a science (Budanov, 2006, p.146). It is a new philosophy proclaiming "a new dialogue of man with nature" (Knyazeva, Kurdyumov, 2002, p. 8). It is also a transdisciplinary branch of science, which aims to develop generalized theoretical models and uses them as a method of research of



complex (hierarchically organized), open (capable of exchanging substance, energy, and information with the environment), dissipative (non-equilibrium) systems of inanimate and animate nature. Synergetics, or the theory of self organization, the basic principles of which were originally developed in the research of physical phenomena, has now become transdisciplinary scientific paradigm. Extrapolation of synergetic ideas in the study of various phenomena of animate and inanimate nature contributed to revealing the isomorphic character of complex, open, non-linear systems' "behavior". And the universal laws of evolution and self-organization of such systems, the widespread use of models developed within this scientific paradigm, contributed to the development of both the theory of synergetics and different applied sciences.

As scientists prove, the principles of synergetics operate at the level of knowledge, which covers a number of scientific disciplines that study different areas of reality (Knyazeva, 2001, p. 102). In this regard, it is quite logical to claim the limits of synergetics and the areas of its competence. There waiting for solution the problems of cooperation of synergetics as a new science, methodology and worldview with various natural and human sciences (in particular, the relevance of scientific methods worked out and tried out by natural sciences in the study of such a unique social phenomenon as language). Consequently, it should be emphasized that synergetics is a young interdisciplinary branch of science which is rapidly developing, that's why it is impossible to limit the scope of its activities and to determine clearly what to do or not to do. Due to its universal and transdisciplinary character, synergetics has "soft" boundary lines and is constantly expanding (Knyazeva, 2001, p. 101). The use of synergetic models and methods in the study of systemic phenomena of animate and inanimate nature, can become a guarantee of expanding the scope of new scientific paradigm and deepening the fundamentals of its theory.

Among the components of authentic synergetics, the scholars mark the innovative, universal synergetic methodology, which suggests a new look at well-known facts and new decision to the problems that were not solved within the classical scientific paradigm. By interpreting and filling the universal synergetic models with the specific scientific content, considering them in a certain disciplinary context, scientists solve the priorities of



particular areas of knowledge and rethink the essence of known phenomena and processes, thereby strengthening the position of synergetics.

Scholars regard synergetics as an interdisciplinary phenomenon in culture having subject knowledge, philosophical reflection, mathematical modeling as constituent parts of it (Malinetsky, 2005, p. 13). The relevance of synergetics in humanitarian studies only as a methodology of scientific research does not mean the absolute irrelevance of its other components. As already mentioned, synergetics is now a rapidly developing and expanding branch; so potentially it could be implemented in many other fields. The fact that mathematical modeling has not been used in the study of linguistic phenomena does not mean that it is completely impossible. We consider, that according to its architectonics, principles of functioning and development, language is a classic example of a synergetic system and the fact, that the relevance of mathematical models hasn't been proven yet, cannot doubt its synergetic nature. Nowadays, native speakers of different languages have the opportunity to compare their speech with the best examples represented by radio and television, documentary, and feature films. Due to this, the development of phonetic macro systems of modern Germanic languages has a slowed-down evolutionary character. In all times, the most intensively changing endo-system of any language was lexical macro-system, which has constantly been enriching with new naming units reflecting historic events, scientific and technological achievements, innovations in political, economic, and cultural life of society. It is remarkable that, nowadays the most active parts of the Modern English language super-system, which are developing rapidly and intensively, are the lexical and word formation macro-systems. This phenomenon can be explained by the fact that they remain "the most open" to the exchange of substance, energy, and information with the environment surrounding a certain language. The enrichment of the language vocabulary can occur under the influence of the social environment or due to material units (words) borrowed from the lexical macro-systems of other language super-systems, or by forming neologisms from own resources within a given lingual super-system.

The neological boom observed in many languages of the world, and especially in English, is an adequate response of language super-systems to scientific and technological, economic, political, ecological changes in modern human life. Under



the influence of social factors, languages are constantly changing and self-organizing. As a result of the quantitative growth of the vocabulary, the ways and means of new lexemes' formation are also improving and the quantity of new word-formation tools is increasing. Therefore, due to the effects of the external environment, the process of self-regulation and self-organization within the lexical and word-formation macro-systems and the language super-system as a whole is carried out.

A new look at the principles of organization of the language system, at the phenomena of order and chaos, determinism and randomness observed in the process of its functioning, at the laws of development and evolution of language as a system capable of self-organization and self-regulation, allows comprehensive and complete reproduction

of architectonics (organization) and autopoiesis (self-improvement) of the language super-system and endo-systems that are parts of it. Language is a classic example of a synergetic system. By its structure, it is a super-system consisting of hierarchically organized macro- and micro-systems, each of which, like the language super-system as a whole, is characterized by openness – the ability to exchange substance, energy, and information with the environment. This exchange occurs between super-systems of the same order (for example, between different languages, resulting in borrowing), between macro-systems within a single lingual super-system (for example, the phenomenon of functional transorientation: affixalization of lexemes, lexicalization of affixes, lexicalization of syntactic constructions), between language micro-systems (for example, functional transposition of lexemes – conversion). Despite its novelty, synergetic linguistics has gained many supporters and followers. From our perspective, the application of ideas and principles of synergetics in the study of linguistic phenomena has great prospects. Understanding the synergetic nature of language lets see more clearly the principles of its organization as a system, identify potential sources of its development, determine the role of "non-systemic" transitional phenomena in the evolution of the language system, reveal the mechanisms that ensure its relative stability and permanent development, prove scientifically the influence of social factors on the processes of self-organization of the language system. Thus, synergetics as a philosophy has opened new opportunities in the study of social phenomena. Synergetic



methodology is widely used in the human sciences. The use of synergetic ideas in the language research has contributed to the formation of synergetic linguistics (or linguosynergetics), which is defined as an applied linguistics which gives synergetic description of lingual phenomena and processes. Cooperation between synergetics and linguistics has a great perspective, as the new synergetic methodology opens wide opportunities in determining the nature and essence of many lingual phenomena, the existence of which has not found a logical explanation within the classical scientific paradigm. Moreover, the study of systemic, regular linguistic phenomena in terms of synergetics will significantly complete our knowledge about them.

The novelty of the synergetic paradigm makes promising the study of lingual phenomena using the innovative methodology. The formation and development of synergetic linguistics as a new branch of applied linguistics depends on the study of various lingual phenomena from the standpoint of synergetic philosophy and methodology. The perspective of the further research is on the analysis of word-forming phenomena and processes of Modern English by implementing the ideas and principles of the theory of self-organization.

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