Logic of Science and Its Applications Igor S. Makarov

Reform Science Center

- **1.** To overcome present general ideological crisis of civilization, it is necessary to start reforming modern science, philosophy and religion.
- 2. Proper ideology for reform of science is provided by Hegel's works suggesting systematic theory based on dialectical logic. In our research [1], we interpreted Hegel's Logic and developed methodology for reform of modern science including humanities [2].
- **3.** New method of research, 'the method of systematic intuition', leads to revision of modern science, giving birth to new science the reform science. It is actually Theory of Systems stated in language of particular science. Every stage of research consists of two phases, paragraph of speculation and formal statement of concept, the former suggesting the latter. Whole research is series of such stages. Research starts with revealing origin of object of study, its fundamental contradiction, and follows its development.
- **4.** Reform science consists of three parts, *Medium, Population* and *Associations*, each with different logic, that of *transition, reflection* and *evolution*. Reform science keeps only research works recognized as its *sources* and *states* of science in every branch. State of reform science is described by three tables of concepts, one for each part. Reform science has *structure* common for all branches of science, which allows to introduce *classification of concepts*, purifying, perfecting and organizing whole science. It is truly systematic science based on logically consistent system of concepts. It is able to sort out existing concepts, right and generalize them, find proper meaning to them, and introduce new concepts. It is thoroughly *theoretical* science, which corresponds to Hegel's dictum that '*truth cannot be observed, it can only be thought'*. Reform science cannot be developed or verified experimentally; nevertheless it accounts for all achievements and experimental base of modern science. Reform science *realizes goals* advanced by modern science.
- **5.** Reform physics consists of three parts: 1- Theory of ether, 2- Subatomic particles, 3- Nuclear structure of atoms. It solved such cardinal problems as existence and composition of ether, origin of matter, nature of nuclear interaction, nuclear structure of atoms, origin of neutrinos, etc.
- **6.** We developed science of politics as systematic body of knowledge. It consists of three parts: 1- Human society, 2-Government, 3- Self-government. Part 1 starts with investigation of human being and ends with formation of ideal model of nation, the World-Consistent Nation (WCN) governed by International Law and expected to develop universal religion, philosophy and science. Part 2 investigates different types of government, from monarchy to republic, ideally best government, Project of WCN. Part 3 shows transformation of republic into self-government, first as its unstable form, demo-republic, and then its stable form empire. There appear two empires with different ideological orientations, social-religious (SR) and religious-social (RS), dividing world into two spheres of influence. Empire evolves by its three institutions: Assembly, Senate and Church or another religious institution responsible for ideology; each having tripartite structure to represent other two. Other demo-republics join one of empires with different extents of affinity, developing empire from Empire-1 to Empire-7, Realization of its Project.
- 7. Following Marx's work, we created framework of economics, science of economics. It consists of three parts: 1-Market production, 2-Capitalist production, 3-Monopolistic production. Monopolistic production starts with establishing firms that unite creating centers, initial forms of self-managing, socialist way of production. There emerge two centers with different orientations of interest: commercial-social (CS) and social-commercial (SC). CS- center and SC-center compete, contracting unions with firms, streamlining production, reducing prices, adapting to each other, involving employees into management and eventually transforming market economy into *a Communal Economy*, with commercial interests becoming social and social interests commercial.
- **8.** To proceed with this mission fateful for civilization, it is necessary to establish coordinating center, THE WORLD REFORM CENTER. Governed by Council of Scholars and Philosophers, it would instruct, guide and coordinate reform science activity, while collecting, processing, unifying and publishing its essential results and engaging universities and other institutions in this mission. It would provide civilization with true ideology necessary to solve both global and local problems.
- 1- Igor S. Makarov. *A Theory of Ether, Particles and Atoms. Second Edition.* 2010. Open University Press. Manchester. UK. ISBN-13: 9 781441478412. Online text: http://kvisit.com/S2uuZAQ; its cover: http://kvisit.com/S2-uZAQ; 2- Igor S. Makarov. *Reform of Modern Science. Politics. Economics.* Reform Science Center (www.reformscience.org), 2012. ISBN-13: 9 781469985770. Online text: http://kvisit.com/so_ruad); its cover: <a href="http://kvisit.com/stayad.