SCIENCE OF POLITICS ON GLOBAL GOVERNANCE

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Abstract

Providentially, during our decades-long independent research in exact science and humanities, we have succeeded in interpreting Hegel's *Science of Logic,* the true philosophy of science and systems theory. That success enabled us to work out a methodology for the reform of modern science and develop the framework of the true science of politics. The latter suggests there is no necessity for global governance: civilization is a self-governing entity that would develop naturally and best unless impeded. In favorable conditions, state government, having passed the stages of democracy and republic, naturally evolves into self-governance. Its first form is demo-republic, a merger of democracy and republic. Demo-republics associate with each other, thus giving birth to empires. There emerge two global empires with dual, social-religious and religious-social, ideological orient- ations dividing the world into two spheres of influence, except a group of neutral countries. Demo- republics either make associations of various affinity with one of the empires or join the neutral group. The two global empires are engaged in global business solving all global problems. However, the present general ideological crisis prevents evolution to self-governance. To resolve that crisis, it is necessary to start reforming modern science, philosophy and religion, harmonizing them with one another. To that end, it is expedient to reorganize UNESCO and commit it to the task of guiding, coordinating and financing that reform.

Introduction

Now that ideological, religious and political conflicts spread and multiply threatening civilization with unpredictable consequences, while the United Nations appears unable to prevent the worsening of the situation, there have appeared ideas of *global governance* widely discussed at conferences. Fortunately, we have now a reliable means to decide on such ideas: the science of politics the framework of which has been recently developed by the author. That new science suggests there is no necessity for global governance, because civilization is a self-governing entity and would develop naturally and best unless obstructed. The main obstruction at present is *the general ideolo- gical crisis of civilization*.   In this paper, we consider the credibility of the new political science, the solution it suggests to the problem of global governance and, finally, the measures to be undertaken within the UN system to implement that solution.

   For about a century, modern science has been showing an increasing interest in the so-called systems theory, the interdisciplinary study of the abstract organization of complex phenomena independent of their nature. As a branch of modern science, systems theory was introduced in the 1940's by the biologist Ludwig von Bertalanffy [1]. He emphasized that real systems are open to, and interact with, their environments, and therefore was very close to understanding the true sense of the concept.

    However, it is only the proper interpretation of Hegel's *Science of Logic* [2] in the author's works [3], [4], [5] that revealed the true essence and structure of systems theory and opened the way to reviewing modern science in general, reorganizing its branches in the true syste-matic order.

   So systems theory is actually the philosophy of science stated in a language of a particular science; it is a logical framework that can be used for a consistent and systematic reorgani-zation of any body of knowledge with a potentially systemic structure. If applied to the theory of thinking, it would produce an analog of Hegel's dialectical logic, the philosophy proper. In economics, it has produced the framework of Marx's research in that field, or a part of it, at least. In physics, it has reorganized the whole former knowledge about space, time, matter, particles and atoms, dismissing redundant concepts, correcting false ones, introducing new concepts and formulas, advancing new

methods of research and general outlooks, solving all cardinal problems in that field and, thus, initiating a radical reform of modern physics. In politics, which is our main concern here, system theory has generated the framework of a new political science with a new fundamental results. So systems theory is the proper means of reforming modern science into a new, perfectly organized science – *reform science.* This new science deserve a special attention provided below.

1. Reform science

1.1. Method of reform science

The method of reform science, called *the method of systematic intuition,* is based on the dialectical logic modified in accordance with the achievements of modern science. Although this true scientific method can, in principle, solve any correctly stated problem, it is not a clear-cut one easy to use in all cases; it cannot be formalized and should be applied with the highest extent of creativity after a comprehensive analysis of the problem in question. The method can be applied only to the sciences that have potentially a systemic structure.

According to that method, every stage of research consists of two phases: a paragraph of speculation and a statement of concept, the former suggesting the latter by necessity. The whole research is a series of such stages, where any new statement is analyzed by a further speculation suggesting a new statement and so forth until the end. The first concept is the beginning of the reform science reflecting the origin of the research object itself; that concept is a fundamental contradiction revealed by a comprehensive speculation about the research object. So the development of the reform science follows the development of the research object. Therefore, unlike modern science where the terms 'science' and 'research' have generally different meanings, in reform science they mean the same. Thus, reform science is actually its unique research, its source.

Reform science is a thoroughly theoretical science, which corresponds to Hegel's dictum that 'truth cannot be observed, it can only be thought'. Thus reform science cannot be developed or verified experimentally; on the other hand, it takes into consideration all achievements and the whole experimental base of modern science and can provide a valid explanation to every experimental fact; reform science realizes goals beyond the reach of experimental and formal methods characteristic of modern science.

Unlike modern science that is actually a collection of research works and theories in particular fields, reform science keeps only the research works recognized as its sources and, in addition, the records of the state of reform science in every particular field.

1.2. Structure of reform science

Reform science consists of three parts named *Medium, Population* and *Associations,* each with a different logic, that of *transition, reflection* and *evolution*, respectively. In contrast to modern science, reform science has a structure common for all branches of science, which allows to introduce a classification of concepts, thus purifying, perfecting and organizing the whole science. That emphasizes the truly systematic nature of reform science, a logically consistent system of concepts. Owing to its structure, reform science is able to sort out the existing concepts, right and generalize them and find the proper meaning to them, and, when necessary, introduce new concepts.

The structure of Part 1 (Medium), with its classification of concepts, is represented by Table 1. In this table, columns A, B, C (Thesis, Antithesis, Synthesis) are intended for the concepts, their symbolism and their brief description, while the column Q is for the qualitative characteristics of the corresponding *entities* of column C. Every concept of Table 1 is classified as SC-1ik, where SC is for SCIENCE, the common two-letter abbreviation of the name of

Table 1.1 Medium (Transitions)

A Thesis	B Antithesis	C Synthesis	Q Quality
SC-1A1 (Origin)	SC-1B1	SC-1C1	SC-1Q1
SC-1A2	SC-1B2	SC-1C2	SC-1Q2
SC-1A3	SC-1B3	SC-1C3	SC-1Q3
SC-1A4	SC-1B4	SC-1C4	SC-1Q4
SC-1A5	SC-1B5	SC-1C5	SC-1Q5
SC-1A6	SC-1B6	SC-1C6	SC-1Q6 (Essence)

a particular science (PH for physics, BI for biology, etc.), i – the column letter (A, B, C), k – the row number (1-6).

The structure of Part 2 (Population) is similar in many respects to that of Part 1 and is represented by Table 2 similar to Table 1; its concepts are classified similarly as SC-2ik. Instead of transition to the opposite, from thesis to antithesis, there takes place here their mutual reflection leading to their synthesis, the birth of a new *creature* which settles the conflict between its two constituent entities and is characterized by its specific quality. The synthesized creatures and their qualities are registered in columns C and Q, respectively. The classification of concepts in Part 3 is presented by Table 3 illustrating the evolution of the *species* from the simplest one to the most complex. The classification of the species is given in the first column as SC-3-i, where i=1, 2, ...7 is the number of the row. Columns A-G are intended for the description of *substructures,* which are classified as SC-3ik, similar to the classification in the preceding tables.

Table 1.2 Population (Reflections)

A Thesis	B Antithesis	C Synthesis	Q Quality
SC-2A1	SC-2B1	SC-2C1	SC-2Q1
SC-2A2	SC-2B2	SC-2C2	SC-2Q2
SC-2A3	SC-2B3	SC-2C3	SC-2Q3
SC-2A4	SC-2B4	SC-2C4	SC-2Q4
SC-2A5	SC-2B5	SC-2C5	SC-2Q5
SC-2A6	SC-2B6	SC-2C6	SC-2Q6 (Project)

Table 1.3 Associations (Evolution)

Substructures Species ↓	A	B	C	D	E	F	G	Q Quality
SC-3-1	SC-3A1							SC-3Q1
SC-3-2	SC-3A2	SC-3B2						SC-3Q2
SC-3-3	SC-3A3	SC-3B3	SC-3C3					SC-3Q3
SC-3-4	SC-3A4	SC-3B4	SC-3C4	SC-3D4				SC-3Q4
SC-3-5	SC-3A5	SC-3B5	SC-3C5	SC-3D5	SC-3E5			SC-3Q5
SC-3-6	SC-3A6	SC-3B6	SC-3C6	SC-3D6	SC-3E6	SC-3F6		SC-3Q6
SC-3-7	SC-3A7	SC-3B7	SC-3C7	SC-3D7	SC-3E7	SC-3F7	SC-3G7	SC-3Q7 (Realization)

1.3. Research in reform science

As suggested above, in Part 1, the researcher must fill in all the cells of Table 1 with the proper concepts and qualitative characteristics. The research starts with a paragraph of speculation to suggest an entity introduced by the statement of its concept SC-1A1, *the origin*. This step may prove most difficult, because this concept has no predecessor and, as is mentioned above, should be determined by a speculation about the research object itself.

Then the research proceeds with a speculation about entity SC-1A1 to suggest its transition to its dual entity marked by concept SC-1B1. After that the research proceeds with a speculation about the two preceding entities, the thesis and the antithesis, to suggest their synthesis, a new entity marked by concept SC-1C1. The latter has its specific quality to be registered in cell SC-1Q1. The speculation about entity SC-1C1 generates entity SC-1A2 to be transited by a new paragraph of speculation to entity SC-1B2, and so forth until determining entity SC-1C6 and its quality SC-1Q6. Entity SC-1C6 is *the essence* of the science, its concept being central for the whole theory. Every step is a discovery revealed by intuition rather than found by a formal work of intellect.

In Part 2, the research starts with a paragraph of speculation about concept SC-1C6 and ends with concept SC-2C6, *the project*. Every statement must again be preceded and necessitated by the proper speculation about the statement of the preceding step. As a result, this stage of research generates a series of six creatures, from SC-2C1 to SC-2C6, of increasingly higher order and quality populating the Medium.

In Part 3, the research starts with a paragraph of speculation about the creatures SC-2C5 and SC-2C6 to suggest their merger into a species SC-3-0, the fundamental component of the substructures. A speculation about the latter should suggest a species SC-3-1 consisting of substructure SC-3A1. Further speculation should expose an internal contradiction of
SC-3-1 necessitating its development, evolution, by generating a new substructure, SC-3B2, to add to SC-3B1 and make a species SC-3-2. The research proceeds further until generating a substructure SC-3G7 which adds to the preceding six substructures, SC-3A7, SC-3B7, SC-3C7, SC-3D7, SC-3E7, SC-3F7, to make the most perfect species SC-3-7, *the realization.* To complete in rough the research, it is necessary to show the species SC-3-7 to be indeed the realization of the project implied by the entity SC-2C6.

Thus the whole research in reform science, in its every branch, is a great endeavor concerned with finding the origin of the branch, revealing its essence, working out its project and fulfilling its realization.

As is mentioned above, reform science publishes both the state of science and the sources, the

research works themselves. To this end, there should be two kinds of media: The Bulletin of Reform Science, publishing the state of different branches of reform science in the form of above three tables of concepts with references to the sources, and The Journal of Reform Science, publishing the research works recognized as sources of reform science to be kept in a specialized library, The Reform Science Archive. The total volume of research works in reform science to be kept in the Archive is thousands of times less than that in modern science, which will result in a radical revolution of the present librarian technology and practice with additional great benefits for humanity.

2. Application to politics

2.1. Reform politics and its main results

The method of reform science, when applied to politics, has enabled us to develop the framework of the true science of politics, *reform politics;* it is a systematic body of knowledge revealing new fundamental results. The research consists of three parts: 1- Human society, 2-Government, 3- Self-government. Part 1 investigates the human being, family, ethnic community and its development into the world community characterized by its ideal model, the World-Consistent Nation (WCN), governed by the International Law. the essence of politics; the WCN is supposed to have developed the universal religion, philosophy and science.

Part 2 investigates logical connection and specific features of different types of government, from monarchy to republic, the latter proving ideally to be the best government, the project of the WCN.

Part 3 shows the merging of republic and democracy into demo-republic; the latter, when taken separately, presents an unstable form of self-governance, being at the same time the basic constituent of the more developed and stable self-governing associations – empires. There appear two empires with different ideological orientations, social-religious (SR) and religious-social (RS), dividing the whole world into two spheres of influence. Other nations, when developed to the status of demo-republic, join one of the empire with different extents of affinity and create different associations called solidarity, preference, neutrality, culture, commerce and global union, thus promoting the development of the empires from their initial form, Empire-1, to its most perfect form, Empire-7, the realization of the WCN project.

The evolution of the empire is actually that of its three institutions: the Assembly responsible for domestic affairs, the Senate responsible for foreign affairs, and the Church or another religious institution responsible for ideology; each of them having a tripartite structure to represent the other two.

The SR-empire and the RS-empire, the first of the Western type, more extravert and aggressive, the second of the Eastern type, more introvert and conciliatory, are engaged in solving global problems while competing and adapting to each other and making social issues increasingly more religious and religious issues more social. The research implies that, for a smooth transition to self-governance and its further evolution, it is necessary to reform modern science and develop universal philosophy and religion, all of them harmonized with each other.

2.2. Structure of reform politics

Structure of reform politics is represented by three tables below corresponding to the respective parts of the research.

Table 2.1 Human society (Transitions)

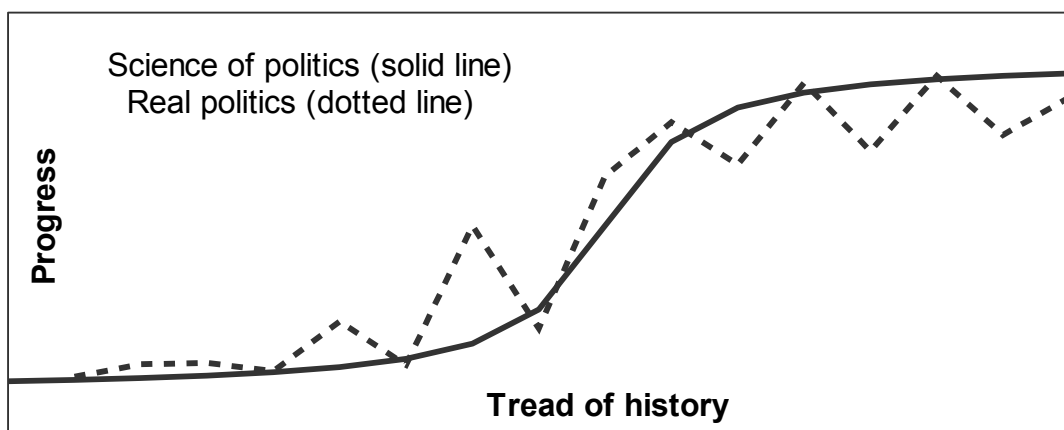| A	B	C	Q
Man Spirit-body	Woman Body-spirit	Family Embodiment of spirit	Life Self-consciousness
Private intercourse Corporal side of life	Social intercourse Spiritual side of life	Social status Quality of life	Definite life
Separation of families Family names	Attraction of families Faith, traditions	World community Communicability	Birth of religion
Multitude of commu- nicating families	Single family Ethnicity	Ethnic community	Ethnic religion, culture
Head of community Ethnic affinity	Border of ethnicity Geography	Nation Geographical borders	National religion, culture
National laws National restrictions	Interaction across borders. Mediation	World-Consistent Nation (WCN). International law	Universal religion, philosophy, science

Table 2.2 Government (Reflections)

A	B	C	Q
Devotion to god, universal deity	Devotion to ruler, national deity	Monarchy – devotion based government	Religious elevation and unity
Proxy-circle of families. Civil security	Security guard Special security	Tyranny – coercion based government	Unity enforced by discipline
Government by common functionaries	Aristocrats – trust- worthy, enlightened	Aristocracy – trust based government	Education and enlightenment
Circle of enlightened wealthy people Heritage of property	Circle of wealthy func- tionaries Heritage of power	Oligarchy – government by sustainable circle of functionaries	Power of collective organization
Organized government. Personal authority	Organized people Collective authority	Democracy – govern- ment by organized people	Manifestation of people's sovereignty
Hierarchy of offices Collective responsib- ility	Hierarchy of organiza- tions. Personal respons- ibility	Republic – collective government with personal responsibility	Ideal embodiment of WCN. Ideal model of government

Table 2.3   Self-government (Evolution)

Affinity→ Empires ↓	A	B	C	D	E	F	G	Q Quality
Empire-1 (PL-3-1)	PL-3A1							Self-governance (PL-3Q1)
Empire-2 (PL-3-2)	PL-3A2	PL-3B2						Solidarity (PL-3Q2)
Empire-3 (PL-3-3)	PL-3A3	PL-3B3	PL-3C3					Preference (PL-3Q3)
Empire-4 (PL-3-4)	PL-3A4	PL-3B4	PL-3C4	PL-3D4				Mutual interest (PL-3Q4)
Empire-5 (PL-3-5)	PL-3A5	PL-3B5	PL-3C5	PL-3D5	PL-3E5			Culture (PL-3Q5)
Empire-6 (PL-3-6)	PL-3A6	PL-3B6	PL-3C6	PL-3D6	PL-3E6	PL-3F6		Commerce (PL-3Q6)
Empire-7 (PL-3-7)	PL-3A7	PL-3B7	PL-3C7	PL-3D7	PL-3E7	PL-3F7	PL-3G7	Responsibility (PL-3Q7)

3. Real politics and science of politics

The ideal political progress suggested by the above theory is represented symbolically by the solid line in Fig.1, the three parts of the line corresponding to the respective parts of the theory. However, such an ideal evolution, suggesting a thorough ideological harmony over the whole world, is impossible in real life. So the real political progress follows another course abounding in sharp ascents and descents, as is shown symbolically by the dotted line in Fig.1. Those deviations of the course mean that real politics involves social upheavals, conflicts, wars and other risky situations; it
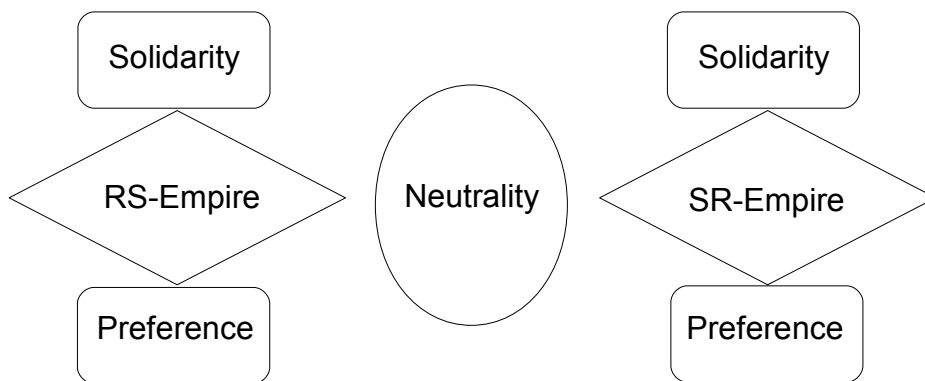

Fig.1 Historical progress of civilization

accelerates social progress at early stages of development, when the whole life is little more than the struggle for existence, and delays the progress at higher stages, when the increasingly perfect organization of society needs increasingly sophisticated scientific methods for its realization. Thus, at higher stages of development, it is necessary to bring real politics closer to the scientific one, which requires the proper ideological harmony in society. To achieve such a harmony in our highly developed society, it is necessary to start reforming modern science, philosophy and religion in accordance with the above methodology.

4. Global governance

As is suggested above, higher stages of society correspond to that of self-governance; the latter starts with the formation of two empires that gradually develop by contracting unions with demo-re-publics as well as between themselves. The ideal final stage of the self-governing world is symbol

Fig. 2 Global self-governance

ically depicted in Fig.2. There are two global empires with the dual, social-religious and religious-social, ideological orientations. Each empire has a circle of close allies (solidarity unions) and a circle of less close allies (preference unions) of the respective ideological orientation. As a result, the empires divide the whole world into two spheres of influence separated by a group of neutral demo-republics; the latter contracting agreements of mutual interest with the empires.

   The two empires compete with each other for the spheres of influence thus solving all global problems in the best possible way. If one of the empires starts dominating, solving global problems to its own advantage and to the detriment of the rest of the world, some of the demo-re-publics that have contracted preference unions with that empire, change their preference and strengthen the temporary weakened empire thus restoring the global balance. So the global governance of this kind proves to be very much dynamic, flexible and adaptive, being able to take into account any contingencies of real life.

   At present there is no such ideal mechanism of global governance. For the latter to evolve, it would be necessary to resolve the present general ideological crisis by reforming modern science, philosophy and religion, as is suggested above. Although such a reform is quite a task in itself, fortunately, we have now the above proven methodology for it. In practical terms, to start the ideo-

logical reform on a large scale, it would be necessary either to reorganize UNESCO and commit it to that task, or establish a dedicated international scientific center to that end.

Conclusion

The present general political trend prepared by the present technological revolution is the transition to self-governance, locally and globally. However, that trend is now thoroughly blocked by the present general ideological crisis of civilization. Thus, for civilization to survive and enjoy a smooth transition to self-governance, it is necessary to start reforming the ideology of modern society, that is modern science, philosophy and theology, in accordance with the above-mentioned methodology. In practical terms, it would be best to reorganize UNESCO and commit it to that mission.

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Biographical sketch

Igor Stepanovich Makarov, b.18.08.1935 (Moscow), graduated from Moscow Institute of Communications (1958); after its post-graduate course (1961-1963), he defended a thesis on digital magnetic recording (1964) and was conferred degree "Candidate of Science in Technology". He then worked at Research Institute of Radio and other firms (Moscow). In 1992 he immigrated in Israel. Late in the 60s, he started his own independent research in systems theory which resulted in a radically new method and fundamental results for physics and science in general. At present he is engaged in organizing the reform of modern science worldwide. His website: http://www.reformscience.org; his CV online: http://kvisit.com/SlZHRAQ.