



Paritantrika

General Systems News



A News letter of the DEI-Dayalbagh Chapter of the Systems Society of India
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From the Editors

The DEI-Dayalbagh Chapter of the Systems Society of India was formed on 24th October 2006, when 32 members of the Society living in and around Dayalbagh came together and resolved to form a local chapter as per the Society's guidelines. The members elected from among themselves a set of office bearers and an Executive Committee. A list of these is given elsewhere in this issue. The Chapter was formally launched on 31st October 2006 in a function presided over by Prof. P.S. Satsangi, Founder President of the Society and the Chief Patron of the Chapter. During the course of the Presidential Remarks, Prof. Satsangi envisaged a very broad spectrum of areas which may be amenable to systems philosophy and techniques viz. Agricultural Systems, Administrative Systems, Literary Systems, Music Systems, Education Systems, Computer Systems, Ecological Systems, Economic Systems, Business Systems, Taxation Systems, Banking Systems, Philosophical Systems, Bio-medical Systems, Optical Systems, General Systems and Esoteric Spiritual Systems.

After the formation of the Chapter, a membership drive was initiated among like-minded people and those interested in systems thinking and applications were invited to join the chapter. The response was tremendous and within a short span of about 2 months the strength has gone upto 650 members approximately.

The mandate given to the Chapter is to create awareness of systems philosophy and thinking and its applications in every walk of life among the members in particular and public in general. This is in furtherance of the main objective of the Systems Society of India which is to advance the study of Systems Science and Engineering and related subjects and promote their applications, particularly those relevant to the needs of the country. The chapter has started a number of activities aimed at fulfilling the objectives. These include a series of popular lectures on Systems

Thinking, Philosophy and Techniques. The first lecture in the series was delivered on 17th December 2006 by Prof.D.Anand Rao, President of the Chapter on the topic "Introduction to Systems and Systems Philosophy". A report of the talk appears later in this issue. A second initiative is the launching of a news letter which will become a vehicle to propagate Systems Thinking and Philosophy as well as serve as a medium for exchanging news and views and also keep the members informed about various activities of the Chapter. The present issue is a humble effort in this direction. Any suggestions on how to improve the layout and / or content are welcome. The Chapter is also preparing a status report on General Systems Research in D.E.I. and Dayalbagh to begin with.

Wishing all practicing and prospective Systems Scientists a very Happy and Fruitful New Year.

Chapter News

The General Body Meeting of the Systems Society of India was held in Goa on 2nd November 2006, on the sidelines of the 30th National Systems Conference. The DEI-Dayalbagh Chapter was represented in the deliberations by its Secretary Dr. Vishal Sahni, who also presented a paper in the conference. The formation of the Chapter was formally announced in the meeting. Another highlight of the meeting was the conferring of Honorary Fellowship on the senior-most life member, pioneer of the Systems Movement in India and Founder President of the SSI, Prof. P.S.Satsangi in recognition of his contributions to the Systems Science movement, both at national and international levels. The Chapter acknowledges with deep gratitude, the honour bestowed upon its Chief Patron and mentor. Prof.D.Anand Rao, President of the Chapter has also been elected as Fellow of the Systems Society of India.

Report on the Popular Lecture on Introduction to Systems and Systems Philosophy.

With a view of making the concepts of Systems and Systems Thinking easily understandable to its members, the DEI-Dayalbagh Chapter of SSI has started a series of lectures on the topic. The first lecture in this series was delivered on 17th December 2006 by Prof. D.Anand Rao, President of the Chapter on **Introduction to Systems and Systems Philosophy**. The response to the lecture was very encouraging with about 430 members attending. In his seminal presentation, Prof. Rao traced the progress of science through the centuries since its emergence during the period of Greek philosophers in the 17th century. He explained that the core of scientific revolution was a combination of rational thinking and analysis of experiments. Scientific methodology and the power of Science can be summarized by the 3R's viz. Reductionism, Repeatability and Refutation. The well defined and structured problems of science have resulted in a very comfortable lifestyle for the last 400 years. But, science has its own limitations. When we move towards more complex phenomenon such as encountered in Human Society and Biological sciences etc., scientific methodology fails and the 3R's of science are found wanting. This failure of science to cope with the inherent complexities of unrestricted sciences has led to a rethinking of Aristotle's wholistic notion that "Whole is more than the sum of its parts". Ludwig Von Bertalanffy espoused the cause of Systems Philosophy wherein order or organization of a whole or a system, exceeding its parts when these are considered in isolation, is nothing metaphysical, nor a superstition or a philosophical speculation, but is a fact of observation encountered whenever we look at a living organization, a social group or even an atom.

The lecture then introduced various definitions and terms used in Systems Theory and then progressed to the classification of System Theory in terms of increasing complexity into four types. Prof. Rao concluded his talk with the comment that the present day Systems Methodology could cope upto Type-3 systems only which are physical in nature and operational. Efforts are on to find methodologies to study Type-4 systems which presently are non-operational Abstract Systems. In particular, Esoteric Spiritual Systems leading to the pursuit of Spiritual Goals appear to be on the research agenda of system scientists.

The proceedings were enlivened and enriched by the comments of the Chief Patron, Prof. P.S.Satsangi, who was kind enough to say a few words on the occasion. Prof. Satsangi commented that present day technology works at nanometer levels which is grossly oversized when compared to

the Planck's length which is of the order of 10^{-35} (\approx nano⁴) and is the smallest length obtained at the beginning of the physical universe. The mind domain works at even subtler levels and if we get further subtler, we can reach the spirit domain. One can thus visualize the level of the sub-sub-sub microscopic technology God or Supreme Being invokes in bringing about the Universe into existence. The Supreme Creator can be viewed as the (infinite) prime source of energy and there is a quantum spiritual force field which is ubiquitous or omnipresent and which is a much subtler energy form than all physical forms of energy. Scientists recognize that the four forms of nature combine and follow a single law at the Planck's length under the Grand Unified Theory (GUT). A further super grand unification takes place in the spiritual plane without any generation of heat as is found in the physical world. This unification is accompanied by mystic sound and refulgence and it is a super-intelligent system. Ultimate Information Technology is in use here. In the physical world, one is drowned in data and has to figure out on his own as to what is optimal and somehow utilize it. But in the spiritual plane, the Supreme Creator makes prompts giving each spirit force, when He so desires, the necessary direction which is intelligible to that particular individual entity based on his background. This is the Ultimate Information Technology at work, wherein the optimal solution is given as a prompt. This is the only direction in which Science can work to progress beyond all possibilities ever conceived by Nobel Laureates or Super Scientists.

Forthcoming Events

The Indo-US Shared Vision Workshop on Soft, Quantum and Nano Computing SQUAN 2007 is being organized from February 22-25, 2007 by the Dayalbagh Educational Institute, Dayalbagh, Agra. Those interested may visit the website <http://www.dei.ac.in/squan> and apply on-line.

Popular lectures, tutorials and workshops will be held on Systems related topics. The schedule will be notified through these columns.

Office bearers and Executive Committee of the Chapter

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President: Prof. D.Anand Rao

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