



# Paritantrika

## GENERAL SYSTEMS NEWS

A Newsletter of the DEI-Dayalbagh Chapter of Systems Society of India

Vol. 6

March 2012

No.1



### PARITANTRA 2012 (February 11, 2012) Fifth Indian Students Systems Conference

PARITANTRA 2012, Fifth Indian Students Systems Conference was organized on February 11, 2012 at the Quantum-Nano Systems Centre and Centre for Consciousness Studies on the theme 'Consciousness Studies: The new frontier'. Paritantra is a Sanskrit word which stands for 'all-encompassing general systems' and true to its meaning, there was huge contribution from all system domains, from humanities and literary systems to educational systems, socio-economic, commerce and business systems, consciousness studies, life-and-physical sciences and engineering systems.

PARITANTRA 2012 featured paper and poster contributions from students at other DEI Chapters of the Society located all over the country in various Distance Education centres. There were 65 oral presentations in 6 sessions and a poster session and the conference witnessed several hours of buzzing activity in all aspects of systems studies with a wide spectrum of topics being discussed.

The best presentations of the day were awarded with Young Systems Scientist Awards. The winners were :

- Educational Systems *Swati Singh, Sumira Bhatnagar*
- Life and Physical Sciences Systems *Purnima Sethi, Ankita Mathur*
- Socio-Economic, Commerce and Business Systems *Mukti Srivastava*
- Humanities, Social Systems and Theology *Bani Dayal Dhir*
- Engineering and Mathematical Systems *D. Surat Swarup, Rahul Kumar, TSV Rajesh, Vivek Bhatnagar*
- Electronics and Computing Systems *Dayal Pyari Srivastava*
- Poster Presentation *Purnima Sethi, Ankita Mathur*

The Valedictory Talk entitled "The Indian Engineering Education Systems" was delivered by Prof. R. Natarajan, Former Chairman AICTE and Former Director, IIT Madras. Prof. S. Swaminathan, Former Professor, IIT Delhi was the Guest of Honour. The guests visited Dayalbagh fields also the next day and saw a lively music programme.



### CONCENT 2011 (October 1-2, 2011) Inaugural Workshop of the Centre for Consciousness Studies

The Inaugural Workshop of the Centre for Consciousness Studies was organized on October 1-2, 2011 at the newly constructed Centre for Consciousness Studies, adjacent to Quantum-Nano Systems Centre. The Centre was inaugurated by Revered Prof. P. S. Satsangi, Chairman, Advisory Committee on Education, Dayalbagh Educational Institutions. There were 21 oral presentations and around 60 posters in the Workshop. A Souvenir-cum-Abstract book was released on the occasion.

The invited talks were :

1. VISION TALK : Revered Prof. P.S. Satsangi Chairman, Advisory Committee on Education, Dayalbagh Educational Institutions : 'Cosmology of Consciousness : Towards Quantum-Theoretic Systems Modelling; Spirit-Mind-Brain Interactions'

2. INAUGURAL TALK : Prof. Jack Tuszynski, Department of Physics, University of Alberta, Edmonton, Canada : 'Molecular Models of Information Processing, Memory Encoding and the Action of Anesthetics at the Level of Individual Neurons with Connections to Neurological Disorders'

3. VALEDICTORY TALK : Prof. Elizabeth Behrman, Professor of Physics and Mathematics, Wichita State University, USA : 'Quantum Neural Networks and the Problem of Consciousness'

Over 150 delegates attended the Inaugural Workshop which was also telecast in the adjoining hall of Quantum-Nano Systems Centre and lab section of the Centre also. The students who had performed well in the quiz on microtubules and consciousness studies were also awarded on the occasion.



## XXXV National Systems Conference

(NSC 2011) at Indian Institute of Technology Bhubaneswar (December 9-11, 2011)



The XXXV National Systems Conference (NSC 2011) was organized by Indian Institute of Technology Bhubaneswar in collaboration with Systems Society of India from December 9-11, 2011. The Inaugural Function was addressed by Prof. Kalra, President SSI and Prof. Chakraborti, Director IIT Bhubaneswar. SSI National Systems Gold Medal was conferred during the Inaugural Function on Prof. Devang Khakhar, Director IIT Bombay in absentia. Prof. V.M. Gadre received the SSI Varshney award and delivered a brief acceptance speech. SSI Vikram award was conferred on Mr. Amit Sharma, DRDO in absentia and Young Scientist Award was received in person by Dr. Sandeep Yadav and Dr. Anupam Gupta from

IIT Rajasthan. The next issue of SSI Journal PARITANTRA was released on the occasion. Plenary talks were delivered by Prof. V.M. Gadre, IIT Bombay and Prof. Sidhartha Mukhopadhyay, IIT Kharagpur, former Vice-President of SSI. On the evening of December 9, AGM of SSI was held in IIT Bhubaneswar Virtual classroom, in video-conference mode with IIT Delhi.

The following papers from DEI-Chapters were conferred the best paper award in their respective sessions :  
 Session 1B: System Identification and Optimization - *Apurva Narayan*,  
 Session 3A: Algorithm for Systems - *R.S.S. Prasanth*

## Symposia organized by SSI on “Social Responsibilities of Learned Professional Societies (e.g. SSI, IEEE, IE(I) and DEI Vision 2031 (Next two decades of Education)” (May – June 2011)

A series of symposia were organized all over the country by SSI in collaboration with DEI in May-June 2011 on the theme “Social Responsibilities of Learned Professional Societies (e.g. SSI, IEEE, IE(I) and DEI Vision 2031 (Next two decades of Education).” The schedule of events was :

- DEI-Dayalbagh, Agra  
May 19-20
- SSI-Mumbai Chapter  
May 24-25
- SSI-Pune Chapter  
May 26
- SSI-Secunderabad Chapter  
May 28
- SSI-Bangalore Chapter  
June 1-2
- DEI-MTV Puram Campus  
June 6
- SSI-Chennai Chapter  
June 11
- DEI-Kakinada DEC Centre  
June 15

New SSI Chapters at Mumbai and Pune were launched in the run-up to the symposia.

Lifetime Achievement Award of the Society was conferred on the following eminent scientists during the symposia series:

1. Prof. P.V. Indiresan, Centre for Policy Research, New Delhi (former Director IIT Madras)
2. Dr. Vijay P. Bhatkar, Chairman ETH Ltd. Pune (founder Director CDAC, Pune)
3. Prof. V. Rajaraman, SERC, IISc Bangalore
4. Prof. R. Natarajan, former Chairman AICTE, former Director IIT Madras



5. Prof. S.S. Prabhu, Professor, IIIT Bangalore
6. Prof. T. Karunakaran, Director, MGIRI Wardha

Dr. Kota Harinarayana, National Systems Gold Medal awardee for 2010 could not attend NSC 2010 at NITK Surathkal and received the medal in person at the Bangalore symposium on June 1. Students of the Chapters / DEI Centres who had participated and performed well in various SSI student events were also awarded during the symposia-series.

The symposia provided opportunity to present the strategic plan for DEI Vision 2031 to a cross-section of experts all over the country and obtain their valuable feedback. The symposia was used to formulate 3 by 3 and 3 by 12 impact matrices at a workshop conducted at MTV Puram and later on at Dayalbagh. DEI learnt from the various experts at the symposia and went a step further in also specifying strategies for implementation in phases, some of which are in the medium and long term. Resulting Impact matrix assessment of broad strate-

gic initiatives at 3rd-order aggregate and 12th order semi-aggregate levels were also prepared. Two sets of alternative graphical portrayals were also prepared at the levels of combined and separate classifications of time-spans as short-term (0-5 years), medium-term (5-10 years) and long-term (10-20 years). While AICTE is now taking steps to integrate vocational and formal education, DEI has the unique distinction of being the only university not only in India, but the world, to have a triple entity in the same campus besides being a regular conventional university, as a vocational education university, as a vocational / technical board and vocational / academic secondary education board. Besides, these features are also offered through distance education as a fourth dimension. The fifth dimension of online education and even beyond is now being developed through e-DEI-de.