



# Paritantrika

## General Systems News



**A News letter of the DEI-Dayalbagh Chapter of Systems Society of India**  
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### 32<sup>nd</sup> National Systems Conference (NSC 2008) at IIT Roorkee (December 17-19, 2008)

The 32<sup>nd</sup> National Systems Conference was organized at Indian Institute of Technology, Roorkee from December 17-19, 2008. The event was inaugurated by Revered Prof. P.S. Satsangi, Chairman, Advisory Committee on Education, Dayalbagh Educational Institutions and Founder President SSI. During the Inaugural Ceremony, Revered Prof. Satsangi was conferred with Lifetime Achievement Award by IIT Roorkee as well as Systems Society of India Award for honouring doyens in the field of Systems Science and Engineering. Prof. Satsangi delivered the Inaugural Address entitled "Generalizing Physical Systems Theory for Applied Systems Research".



**Glimpses of NSC 2008**

A large contingent from all DEI Chapters participated in the NSC and won Best Paper Presentation Awards in the following sessions :  
Business and Social Systems : **Bani Dayal**, P.S. Satsangi  
Measurement & Instrumentation : P.S. Satsangi, **Vishal Sahni**  
Biomedical Systems : **V Sumati**, Lotika Singh, Satish Kumar  
Computer and Comm. Systems : **Sukhdev Roy**, K. Kulshreshtha  
Signal & Image Processing : **C Patvardhan**, C V. Lakshmi, Ritu Jain  
Modern System Techniques-I : **Rahul Sharma**, K. Hans Raj  
Modern System Techniques – II : **Surat Kumar**, Prateek Pandya  
Soft Computing : **K. Hans Raj**, Rajat Setia, Rahul Swarup Sharma

### PARITANTRA 2008 First Indian Students Systems Conference (March 30, 2008)

PARITANTRA 2008, First Indian Students Systems Conference was organized on March 30, 2008 with the theme as 'Unity in Diversity of Technologies for attaining perfection'. Paritantra is a Sanskrit word which stands for 'all-encompassing general systems' and true to its meaning, the conference got huge contribution from all system domains, from humanities and literary systems to educational systems, socio-economic, commerce and business systems to computing systems, and life-and-physical sciences to engineering systems. There were 79 papers in 6 sessions and the conference witnessed over eight hours of buzzing activity in all aspects of systems studies with a wide spectrum of topics being discussed.



**Glimpses of PARITANTRA 2008**

The high point of the Conference was a Panel Discussion on Dayalbagh as an **Eco-Village System** with participation from Eco-Environmental Scientists, Dayalbagh and Soamibagh Nagar Panchayats, ADA Planners, Journalists and Interested Citizens, and the environmental NGO SPHEEHA.

The best presentations of the day were awarded with Young Systems Scientist Awards. The winners were :  
Educational Systems : P. Binati  
Engineering Systems : Pranjal Srivastava  
Computing Systems : Lotika Singh  
Socio-Economic Commerce & Business Systems : T. Guru Sant  
Life and Physical Sciences Systems : Nirupama Singh  
Humanities and Literary Systems : Bani Dayal

This was followed by an Invited Video Talk by renowned eco-environmental scientist, Prof. Jack Ellis, Professor Emeritus in Environmental Studies, York University, Toronto, Canada on the topic 'Conceptual Analysis of Society-Environment Systems'. Dr. Ellis concluded by saying that young researchers especially should be encouraged to take a fresh approach to broaden systems analysis through innovative thinking.

### Special Lecture-cum-Prize Distribution Function (October 3, 2008)

DEI-Dayalbagh Chapter of Systems Society of India organized a Special Lecture on October 3, 2008 by Prof. S.P. Gupta, Head, Dept. of Electrical Engineering IIT Roorkee and Chairman NSC 2008 who is also an alumnus of DEI Engineering College (1971 batch).



*Glimpses of the Special Lecture-cum-Prize Distribution Function*

The lecture was transmitted live to all DEI-SSI Chapters at Bangalore, Chandigarh, Chennai, Delhi, Jaipur, Kanpur, Ludhiana, Lucknow, Noida, Secunderabad and Vizag, besides Jammu and Kurnool. DEI is encouraging more and more Centres to come forward and form Chapters so that we are able to reach out to them directly from DEI. Dr. Gupta spoke on the topic 'Research in Engineering and Technology' and exhorted young students to take up research and advised universities to provide incentives for the same. The toppers of the Quiz on Systems Approach to Fatherhood of God and Brotherhood of Man organized on August 12, 2008, were awarded prizes on the occasion. The best ideas generated by students in the Idea Engineering Workshop held on September 23, 2008 were also presented by a few student members and the students with the most creative ideas were awarded.

### Idea Engineering Workshop (September 23, 2008)

An Idea Engineering Workshop was organized across all Faculties on September 23, 2008 for students to generate creative ideas to catapult DEI among top 20 universities in India by 2011. Students were asked to list three main objectives, three constraints / obstacles that could become impediments and three ways and means by which those constraints can be removed.

The students with the most creative ideas were :

Arts Faculty	Bani Dayal, Shaista Dhanda
Commerce Faculty	Supriya Dayal
Education Faculty	Shikha Verma
Engineering Faculty	Dheeraj Nanda, Robins Kumar
Science Faculty	Sudhi Oberoi
Social Sciences Faculty	Mukti Srivastava, Nidhi Bhargava,
Puneet Satsangi, Sahej Grover,	Soma Kakulapati
Technical College	Arsh Dayal
Women's Polytechnic	D. Srujana

### Quiz on 'Fatherhood of God and Brotherhood of Man : A Systems Approach' (August 12, 2008)

The Chapter organized a Quiz open to all new entrants of DEI with questions on the application of systems approach encompassing Idea Engineering, Delphi study and Scenario Building Exercise towards attainment of the ideal dictum of 'Fatherhood of God and Brotherhood of Man' in which 730 students appeared across all Faculties and colleges.

The prize winners were :

University Toppers	Bhanu Priya, Anurag Mayank
Arts Faculty	Neha Bhatnagar, A. Rachana
Commerce Faculty	Charu Bajpai, Bhavneet Kaur
Education Faculty	Bhanu Priya, Garima Sinha
Engineering Faculty	Nitin Srivastav, Manan Saxena
Science Faculty	M. Poojitha, V. Guru Charan
Social Sciences Faculty	Geetika Rawat, Mukti Srivastava
Technical College	Anurag Mayank, Arsh Dayal
Women's Polytechnic	Satgur Chetna, Mili Kesarwani
DEI-Secunderabad Chapter	K Geetha, A Radhakrishna

### Indo-US Advanced School on Quantum and Nano Computing Systems and Applications (QANSAS 2008) (December 11-14, 2008)

The Indo-US Advanced School on Quantum and Nano Computing Systems and Applications QANSAS 2008 was organized at Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra in collaboration with IIT Kanpur, IIT Delhi and several American, Canadian, German and British Universities witnessed four days of buzzing activity in Quantum and Nano Computing with a wide spectrum of topics being discussed including vision talks, tutorials, invited talks and panel discussion, ranging from photonic and NMR quantum computing to nano electronics, string theory, systems nanotechnology, quantum walk, cloning, entanglement and decoherence.



*Glimpses of QANSAS 2008*

The event was inaugurated by Dr. S.K. Sikka, Former Scientific Secretary to Principal Scientific Adviser to Govt. of India as the Chief Guest. In the ensuing sessions, there was active participation with 20 invited speakers from top academic and research institutes including IBM Research, Rowan University and Michigan State University USA; University of Waterloo, Canada; University of Sheffield and University of Bristol, United Kingdom; University of Kiel, Germany; IIT Kanpur, IIT Delhi, IISc Bangalore, TIFR Mumbai, Institute of Physics and CV Raman College, Bhubaneswar, Jawaharlal Nehru University, Delhi and DEI, Dayalbagh Campus as well as Soami Nagar Satellite Campus from India.

It was an extremely prestigious event for Dayalbagh Educational Institute to host such an impressive galaxy of experts spanning quantum and nano computing as well as classical computing as part of Vision 2011 of the Institute. The contacts established during the event have paved the way for working towards establishment of a Joint Centre envisaging cutting edge work in the field.