

# DST Autonomous Bodies Conclave 2014

## Young Scientists' Meet



*Organised by S.N Bose National Centre for Basic Sciences, Kolkata*

### **PROGRAMME SCHEDULE**

**28 January 2014**

**Venue: Silver Jubilee Hall**

09.00 – 09.30 hrs – Registration

09.30 – 10.00 hrs – Inauguration

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**10.00 – 11.00 hrs. – SESSION I**

**Astrophysics**

**Chair: Prof. Anuradha Lohiya, Bose Institute**

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10.00 – 10.30 hrs – Gamma-ray burst afterglows and connection to core-collapse  
Supernovae

*Shashi Bhushan Pandey, Aryabhata Research Institute of  
Observational Sciences (ARIES), Naini Tal*

10.30 – 11.00 hrs – Evolution of magnetic helicity and energy in active regions

*B. Ravindra, Indian Institute of Astrophysics, Bengaluru*

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11.00 – 11.30 hrs – Refreshments

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**11.30 – 13.00 hrs – SESSION II**  
**Earth Sciences**  
**Chair: Prof. Anita Mehta, S.N Bose National Centre for Basic Sciences**

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11.30 – 12.00 hrs– Low latitude ionosphere – thermosphere system during Space Weather events – recent advances  
*Mala S. Bagiya, Indian Institute of Geomagnetism, Navi Mumbai*

12.00 – 12.30 hrs – Paleoseismological evidence of great surface faulting along the Indian Himalayan Front: Timing, size, spatial extent and recurrence of great earthquakes  
*R.Jayangondaperumal, Structure and Tectonic Group, Wadia Institute of Himalayan Geology, Dehradun, Uttarakhand*

12.30 – 13.00 hrs – Glaciations in the Indian Himalaya during the past hundred thousand years: Climatic implications  
*Sheikh Nawaz Ali, Birbal Sahni Institute of Palaeobotany, Lucknow*

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13.00 – 14.00 hrs – Lunch Break

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**14.00 – 15.30 hrs – SESSION III**  
**Chemical and Biomedical Sciences**  
**Chair: Prof. Sampa Das, Bose Institute**

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14.00 – 14.30 hrs – Understanding Ubiquitination: Mechanism and beyond  
*Ajit Bikram Datta, Department of Biochemistry, Bose Institute, Kolkata*

14.30 – 15.00 hrs – Small molecule regulators of autophagy  
*Ravi Manjithaya, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore*

15.00 – 15.30 hrs– Devices to protect Ailing hearts; Haemoconcentrator: from concept to commercialisation  
*Vinodkumar V., Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Science and technology, Thiruvananthapuram*

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15.30 – 16.00 hrs – Refreshments

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**16.00 – 17.30 hrs – SESSION IV**  
**Physics and Chemistry of Materials & Applications - I**  
**Chair: Prof. Tanya Das, Bose Institute**

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16.00 – 16.30 hrs – Hydrogen, Anybody?  
*Abhishek Dey, Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata*

16.30 – 17.00 hrs – Development of Novel Nanomaterials for varied applications  
*Devasish Chowdhury, Physical Sciences Division, Institute of Advanced Study in Science and Technology (IASST), Guwahati*

17.00 – 17.30 hrs – Densification mechanisms for spark plasma sintering in alumina and alumina based systems  
*Dibyendu Chakravarty, International Advanced Research Center for Powder Metallurgy and New Materials (ARCI), Hyderabad*

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18.00 – 20.00 hrs. - Cultural Programme followed by Dinner

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29 January 2014

Venue: Silver Jubilee Hall

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**09.30 – 11.00 hrs – SESSION V**

**Physics and Chemistry of Materials & Applications - II**

**Chair: Prof. Durga Basak, Indian Association for the Cultivation of Sciences**

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9.30 – 10.00 hrs – Zinc oxide nanoparticles hold hope for diabetics

*Rinku Umrani, Centre for Nanobioscience, Agharkar Research  
Institute, Pune*

10.00 – 10.30 hrs – Magnetic and magnetotransport phenomena in some novel  
oxide materials

*S. Angappane, Centre for Soft Matter Research, Bangalore*

10.30 – 11.00 hrs – Application of THz Spectroscopy in Material Sciences  
and Biophysics

*Rajib Kumar Mitra, Dept. of Chemical, Biological &  
Macromolecular Sciences, SNBNCBS, Kolkata*

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11.00 – 11.30 hrs – Refreshments / Group Photo Session

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11.30 – 13.00 hrs – Panel Discussions/ Closing remarks by DST Secretary

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13.00 – 14.00 hrs – Lunch

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