

CALL FOR PAPERS

Deadline for Receipt of Extended Abstract

January 11, 2013

Conducting **National Seminar on Physics and Technology of Sensors** is a continued activity and the present one will be the 17th seminar in this series. Every alternate year, the seminar is organized by University of Pune. Members of this community eagerly look forward for such meeting every year. Here is the announcement for the 17th Seminar, which will be held at **Jamia Millia Islamia (A Central University), New Delhi**, during 11 to 13 March 2013. We extend cordial invitation to all of you to interact with leaders in the field by participating in this Seminar being organised by **Centre for Interdisciplinary Research in Basic Sciences at Jamia Millia Islamia (A Central University), New Delhi at M.A. Ansari Auditorium**. For detailed information, please visit seminar the website www.nspts.org

Seminar Focus

Research on sensors and materials science has come to the front of R & D activities due to their key role in all spheres of technology. Advancement in the sensor technology is most exciting field having strong potential to change the socio-economic scenario of the country. This seminar will provide coverage of recent advances and emerging new sensor technologies in the fields of science, engineering and medicine. This seminar will cover the diverse aspects of sensor science and technology dealing with all types of sensor materials, their synthesis, spectroscopic characterization, sensor designs, fabrication and manufacturing techniques, sensor probes, features, physical, chemical and biosensors, their applications in electronics, photonic and optoelectronic industries, surface sensing, medical diagnosis, food industry, environmental engineering, nanotechnology and packaging. The Seminar will provide a common platform for industrialist, scientists, engineers, professionals and experts working in the field of sensors to share and discuss their interest, ideas, problems and feasibility to find the probable solutions.

Topics

- Innovative sensing concepts
 - Advanced sensing materials
 - Fabrication techniques,
 - Characterization Techniques
- Sensors for Medical diagnosis and therapeutic
 - Cell and tissue-based sensors,
 - Biotoxin sensors
 - Lab-on-a-chip
 - Electronic-nose sensors
- Sensor networks and systems,
 - Sensor neural networks
 - Smart sensor systems
 - Embedded system
- Sensor system integration
 - Advanced sensing materials
 - Sensor architectures, fabrication, packaging, testing and reliability
 - Sensor signal processing electronics
- Sensor instrumentation
- Micro machined and Integrated sensors (MEMS, NEMS)
 - Optical, acoustic, mechanical, thermal, electromagnetic, electrochemical, radiation, chemical, and physical sensors, Cross domain sensors
 - Fiber optic sensors, Sonar sensors, Flow sensors Self-cleaning sensors,
 - Nanosensors
 - Automotive Sensors
 - Agro-based sensors
 - Gas and pollution related sensors
 - Sensors for disaster management
 - Remote sensing
 - Biosensors
 - Seismic sensor
 - Sensor fundamentals and Physics
 - Computational and theoretical aspects of sensors
 - Sensor applications and uses
 - Any other related topic
 - Product and prototype presentations

Advisory Committee

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Registration details

Category	Early Bird Registration	Late Registration	Registration with accommodation
Registration upto	Before 31 st , Jan 2013	From 1 st Feb to 5 th March 2013	Before 5 th March 2013
Scholars/students	3000	3500	3500
Faculty members	4000	4500	4500
Industrialists	5000	5500	6000

Award

The contributory oral and poster presentations will be judged for the following awards;

- ❖ **Best Poster award**
- ❖ **Best oral presentation award**
- ❖ **RCMF Prizes for best and continued industrially oriented work** (for this particular category the interested should apply in advance to nspts17@gmail.com).

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