



Looking forward to meet you at Pune India

All correspondence should be addressed to:

Dr. Girish J. Phatak, Scientist Convener ISPTS-1 Centre for Materials for Electronics Technology (C-MET), Panchwati, Off Pashan Road, Pune - 411008, India

www.isptsone.org

Organizing Committee

Chairperson Dr. D. P. Amalnerkar Executive Director, C-MET, Pune

Co-Chairperson Prof. (Ms) S. A. Gangal, ISRO Chair Professor, Dept. of Electronic Science, University of Pune, Pune

Convener
Dr. G. J. Phatak, C-MET, Pune, India
Ph. +91-20-25899273 (O), +91-20-24478155 (R)
+91-9225527624 (M) gjp@cmet.gov.in , isptsone@cmet.gov.in Convener@isptsone.org

Co-Convener Dr. S. B. Rane C-MET, Pune, India Ph. +91-20-25899273 (O), +91-9890909949 (M) sunit@cmet.gov.in

Treasurer Dr. U. P. Mulik, C-MET, Pune, India Ph. +91-20-25899273 (O), upm@cmet.gov.in

Dr. Ms Niloufer Shroff, DIT, New Delhi

Co-Treasurer Dr. Ms Shany Joseph, C-MET, Pune, India Ph. +91-20-25899273 (O), shany@cmet.gov.in

Members

Dr. T. L. Prakash, C-MET, Hyderabad Dr. K. R. Dayas, C-MET, Thrissur Dr. U. P. Mulik, C-MET, Pune (Treasurer Dr. S. Chatterjee, DIT, New Delhi Dr. S. Ananthakrishnan, UoP. Pune Dr. Anand Bhalerao, Bharati Vidyapeeth, Puni Dr. I. S. Mulla, C-MET, Pune Prof. P.B. Vidyasagar, UoP, Pune Prof. (Ms) R. C. Alver, LloP, Pune Prof. S. V. Ghaisas, UoP, Pune Prof. A. D. Shaligram, UoP, Pune Prof. Deepti. D. Deobackar, UoP, Pune Prof. S. R. Jadkar, UoP, Pune Dr Ms D.C. Gharpure, UoP, Pune Dr. B. B. Kale, C-MET, Pune Prof. P. K. Khanna, DIAT, Pune Dr. S.W. Gosavi, UoP. Pune Dr. M. A. More, UoP, Pune Dr. Ms. Sushma Sabharwal, UoP. Pune Dr. Ms Smita Zinjarde, UoP, Pune Ms. P. K. Girija, C-MET, Pune Dr. Tanay Seth, C-MET, Pune Dr. Milind Kulkarni C-MET, Pune Dr. Ms. Varsha Raut, C-MET, Pune Dr. Ms Sharry Joseph, C-MET, Pune (Co-Treasurer) Dr. P. V. Adhyspak, C-MET, Pune

Dr. Diganta Das, CALCE, UoM, USA

Dr. K. S. Chari, IEEE SSCS & CAS, (India Chapter)



Tentative List of Invited Speakers

Some of the eminent personalities being contacted for Invited talk in their area of expertise are:

Prof. V. Renugopalkrishnan, Harvard University, USA Prof. Sowmya Viswanathan, Newton-Wellesley Hospital, USA Prof. Ashok Mulchandani, University of California, USA Dr. Leonard Tender, Naval Research Laboratory, USA Prof. Makarand Paranjape, Georgetown University, USA Prof. Akbar Shaikh, Ohio State University, USA Prof. Lisheng Xu, Shandong University, China Prof. Marc Madou, University of California, USA Prof. Michael Pecht, University of Maryland, USA Prof. Thomas Thundat, University of Alberta, Canada Prof. Rao Tummala, , Georgia Institute of Technology, USA Dr. B. D. Malhotra, National Physical Laboratory, India. Dr. Chii-Wann Linn, National Taiwan University, Taipei, ROC Dr. Ton Schless, CEO, SIBCO BV, The Netherlands Dr. Girish Kale, University of Leeds, UK Dr. Sankaran, Centre for BioTechnolgy, Anna University, India Dr. Vijayamohanan, CECRI, Karaikudi, India Dr. Diganta Das, University of Maryland, US.

Important Dates

Extended Abstract submission	2" December 2011
Intimation of acceptance	19th December 2011
Full paper submission	31" January 2012
Registration for Prototype and project presentation	31 st January 2012
Registration	30*January 2012

Abstract and Paper Submission

Authors are requested to prepare A4 size, two page extended Abstract in 10 point, Times New Roman font keeping left margin 38mm and other margins 25mm from the paper edge in MS Word 2003/2007 format. The abstract should contain a brief account of results obtained. Please send the abstracts to the email abstracts@isptsone.org as attachment.

Proceedings and Publication in Journal

The extended abstracts of all papers (oral/poster), invited talks and industrial presentations will be published in the form of proceedings, which will be made available to all the registered participants during symposium.

We are negotiating with Editors of ACS Nano, Journal of Nanoscience and Nanotechnology, Sensor Letters and IEEE for publication of the full papers after peer-reviewing process by the journal or symposium experts.

International Advisory Committee

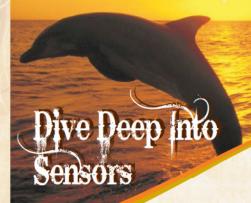
Prof. C. N. R. Rao, India Dr. S. Banerjee, India Dr. K. Radhakrishnan, India Dr. Sanjay Chahande, India Dr. V. K. Aatre, India Prof. Rao Tummala, USA Prof. V. Renugopalkrishnan, USA Dr. M. P. Srinivasan, Singapore Dr. Ashok Joshi, USA Prof Thomas Thundat, Canada Prof. H. Minoura, Japan Prof. Y. S. Kang, Korea Prof. James Rayan, USA Prof. Ajit Kelkar, USA Prof. B. V. R Chowdari, Singapore Prof. Michale Pecht, USA Prof. J. B. Yoo, Korea Dr. H. Hwang, Korea Prof. Nasser Alzayed, Saudi Arabia Dr. F. M. Amanullah, Saudi Arabia Dr. A. Aldhafiri, Saudi Arabia Dr. A. Vinu, Japan Prof, Maria Prudenziati, Italy Prof. Walter Smetana, Austria Prof. Andrzej Dziedzic, Poland Prof. John Atkinson, UK Prof. Leszek Golonka, Poland Dr. M. Hrovat, Slovenia Dr. Thomas Maeder, Switzerland Prof. Peter Ryser, Switzerland Prof. Cristina Leonelli, Italy Prof. K. Arshak Ireland Dr. Girish Kale, UK Prof. Satish Mahajan, USA Dr. J. O. Baeg, S. Korea Prof. Matiaz Valant, Slovenia Dr. Anna Axelsson, UK

Dr. Y. S. Han, S. Korea

Dr. H. Y. Lee, S. Korea

Prof. N. G. Patel, USA

Prof. Spomenka Kobe, Slovenia



Organizing partners

♦ IEEE Technical Sponsorship by IEEE Reliability Society

Centre for Materials for Electronics Technology (C-MET) Panchawati, Off Pashan Road, Pune - 411008 (India)



Centre for Sensor Studies Department of Electronic Science University of Pune Pune-411007 (India)



Solid State Circuits Society (SSCS) and Circuits and Systems Society (CAS) IEEE



Materials Research Society Of India (MRSI), (Pune Chapter)

Caice Center for Advanced Life Cycle Engineering (CALCE)
AJ Clark School of Engineering
University of Maryland, College Park
MD 20742 USA

www.isptsone.org

One day pre-symposium

ISPTS-1

1" INTERNATIONAL SYMPOSIUM ON PHYSICS

AND TECHNOLOGY OF SENSORS 8-10° March 2012

parallel workshops on Allied Topics 7th March 2012



About ISPTS

Conducting *National Seminar on Physics and Technology of Sensors* (NSPTS) is a continued activity ever since it was conceptualized and organized first in 1994 by peartment of Electronic Science, University of Pune. Since then, the activity has grown into a well-attended national event in India, adored and awaited by the Sensors and Actuators community across the country, Uptill now, 16 National Seminars have been successfully organized, alternately at Pune and other places across India.

Encouraged by the resounding success of this annual event, we the organizing partners have now planned the First International Symposium on this topic of immense interest to scientiss, ademicians and industry personnel alike. This is an event on global canvas that is aimed at exchanging ideas across the Sensors and Actuators community and discussing the state of the art in all the relevant fields.

Announcement and Invitation

On the occasion of its Annual Foundation Day, Centre for Materials for Electronics Technology (C-MET), Pune along with Centre for Sensor Studies, Department of Electronic Science, University of Pune, in association with IEEE India's Solid State Circuits (SSCS) and Circuits & Systems Societies, Materials Research Society of India (MRSI), Pune Chapter and Centre for Advanced to the Cycle Engineering (CALCE), University of Manyland, USA humbly announce the 1"International Symposium on the Physics and Technology of Sensors (ISPTS-1) between 8" and 10" flarth 2012. The organizers are also happy to announce one day pre-symposium parallel workshops on 7" March 2012. We extend a cordai invitation to all interested scientists, academicians, engineers, inclusives and students to participate in this unique event.

Objectives

- To increase interactions between National and International industry, R
 D Institutes and universities
- To provide platform for exchange of knowledge in all the specific areas
 of the field of interest
- To update the knowledge in the subject through workshops on specialized topics
- To provide first hand information about frontiers of research and development through invited talks
- To expose the industries and participants to the developments done by researchers and students through prototype presentations

Activities

The International Symposium is marked by several events:

- Invited talks from eminent personalities.
- Contributory oral paper presentations from India and Abroad by selected
- participants
- Contributory Poster paper presentations
- Parallel Pre-Symposium Workshops on 7th March 2012 on the following topics:
- Micro Sensor Packaging (Workshop 1)
- Use of sensors for Prognostics: Circuits, Systems, Reliability & High Temp. Electronics (Workshop 2)
- Sensing Mechanisms (Workshop 3)
- Product exhibition and presentations
- Demonstration of prototype devices by industry and individual young researchers
- Prizes for promising industry oriented work and for oral and poster presentations

Areas of Focus

The participants and industry personnel are encouraged to submit their latest and unpublished research work in the following areas, but not limited to:

- Chemical and Gas Sensors
- Optical Sensors
- Bio Sensors
- Magnetic Sensors
- Mechanical and Physical Sensors
- MEMS and NEMS based Sensors
- Space Sensors and Remote Sensing
- Actuators/ Micro Actuators
- Sensing Materials
- Sensor Fabrication Techniques
- Packaging, Integration and Systems
- Sensor Instrumentation
- Phenomena, Modeling, and Evaluation
- Applications in various fields



Registration fees

Symposium

Scientists, Engineers, Teachers and Researchers	Rs. 4000/-or
from University, Research Institutes, Colleges etc	US \$ 100/
Graduate and Research Students and	Rs. 2000/- or
Project Staff (Science and Engineering)	US \$ 50/-
Industry Product Presentation	Rs. 10000/- or US \$ 250/-

Vorkshops

Any one of the three parallel workshops	Rs. 2000/- or US \$ 50/

Please refer to the conference web-page www.isptsone.org for mode of payment.

The registration fee covers only the symposium / workshop proceedings and other material, working lunch and tea/coffee during the breaks.

Depending on the availability of funds, TA/DA may be provided to a limited number of students within India. A limited number of registration fee walvers would be considered for students from abroad. Those interested may apply at the time of registration.

Advertisements

Advertisements of Industrial products will be accepted for publication in the Proceedings Extended Abstract only.

The charges are:

Full back page (7.5.10")	: Rs.10000	Horizontal Half Page (7.5.5")	: Rs.2500
Full back inside page (7.5.10")	: Rs.7500	Quarter (3.5.5")	: Rs.1500
Full page (7.5.10")	: Rs.5000		

Accommodation

Limited accommodation in Guest House or Hotel can be arranged on request, if received on or before 15th February 2012. The accommodatio charges should be borne by the participants.

About Pune and the Organizers

The City of Pune is well known for its excellence in education, sports as also for its not cultural heritage. It also hosts a good number of important government research laboratories. C-MET is one of them. Dedicated to the furtherance of competent research and development in the firmament of Electronic Materials, C-MET functions as R & D institute under Department of Information Technology, Ministry of Communications and Information Technology (MCIT), Govt. of India. Besides augmenting core competence, C-MET envisions attainment of self-sufficiency in the sphere of electronic materials, components and devices to cater to India's strategic and industrial applications, exploiting indigenous resources of raw materials.

The University of Pune is one of the premier academic Institutes in the country, having highest accreditation rankings by the National Accreditation Council. The University has established Centre for Sensor Studies (CSS) under the 'Potential of Excellence Program' from University Grants Commission. Departments of Physics, Electronic Science, Zoology, Chemistry and Instrumentation Science contribute to the activities of the centre.

IEEE is the world's largest professional association advancing innovation and technological advance for the benefit of humanity. IEEE inspires global community through it's highly cited conferences, publications, standards and professional and educational activities. The Solid State Circuits Society (SSS) and Circuits and Systems Society (CAS) are the major technical societies of the IEEE fostering development in the area. India SSCS and CAS Chapters, part of the parental societies, focus on promotion of IEEE and societies devitives in the country.

The Materials Research Society of India (MRSI) is an interdisciplinary society founded in 1989 by Prof. CNR Rap, F.R.S., dedicated to the field of materials science and engineering in India. The Society is committed to stimulate and integrate research in the field of materials for rapid industrial progress in the country. The Pune chapter of MRSI has been actively pursuing these activities through various lectures, symposia and conferences in the past few years.

The Center for Advanced Life Cycle Engineering (CALCE) is recognized as a founder and driving force behind the development and implementation of physics of-failure (PGF) approaches to reliability, as well as a world leader in accelerated testing, electronic parts selection and management, and supply-chain management. CALCE focuses on developing methodologies, models, and tools that address the design, manufacture, analysis, and management of electronic systems.



National Advisory Committee

Dr. K. N. Ganesh, IISER, Pune

Dr. Sourav Pal, NCL, Pune Dr. S. Sivaram, NCL, Pune Dr. K. Pralhada, DIAT, Pune Dr. Chandra Shekhar, CEERI, Pilani Dr. R. Budhani, NPL, New Delhi Dr. Sundararajan, ARCI, Hyderahad Dr. K. Vijayamohanan, CECRI, Karaikudi Prof. N. S. Gaibhive, Sagar University, Sagar Prof. G. D. Yadav, MUICT, Mumbai Prof. A. K. Raychaudhuri, SNBNCBS, Kolkata Prof. S. B. Krupanidhi, IISc, Bangalore Dr. J. Naravana Das. DRDO. New Delhi Dr. S. K. Gupta, BARC, Mumbai Shri. T. K. Sarkar, DIT, New Delhi Dr. B. Velayudham, VSSC, Thiruvanathapuram Prof. T. R. N. Kutty, IISC, Bangalore Dr. Murali Sastry, Tata Inovation Center, Pune Dr. J. V. Yakhmi, BARC, Mumbai Dr. G. J. Samathanam, DST, New Delhi Prof. R. N. Karekar, University of Pune, Pune Dr. E.S. R. Gopal, IISc, Bangalore

Dr. G. P. Kothiyal, BARC, Mumbai

Dr. K. Vijayaraju, ADA, Bangalore

Prof. Navakant Bhat, IISc, Bangalore

Dr. Anand Mohan, NIT, Kurukshetra

Prof. Ramgopal Rao, IITB, Mumbai

Dr. Shivajirao Kadam, Bharathi Vidyapeeth, Pune

Dr. K. S. Chari, IEEE SSCS & CAS (India Chapter)

Prof. R. P. Singh, IISER, Pune



Registration Form

1st International Symposium on Physics and Technology of Sensors (8-10 March 2012)

Sex (tick the selections):	Male	Female		
Affiliation:				
Address:				
Telephone no:				
Telephone no: Email ID:				
	ck the selectio	ns)		
Email ID:	ck the selection		Norkshop 2	Work
Email ID: Registration Fee: for (tio			Workshop 2	Work
Email ID: Registration Fee: for (bit ISPTS-1			Norkshop 2	Work