



# 8<sup>th</sup> International Conference on "Advances in Metrology" and One Day Pre-AdMet Workshop



## AdMet-2013

(February 21-23, 2013)

CSIR-National Physical Laboratory, New Delhi, India

### First Announcement and Call for Papers

Metrology plays a key role in the development of society, economy and trade. Precision engineering, advanced communication methods, computing, environmental engineering, health care and nano-metrologies have put pressing demands on "National Measurement Institutes" (NMIs) for the realization of the standards of physical and chemical measurements with highest levels of accuracies and traceability to the international measurement system.

The International Conference on "Advances in Metrology" (AdMet) is one of the major scientific events organized in India once in every three years, along with pre-conference workshops in selected fields of metrology. The National Physical Laboratory (NPL), a constituent of the "Council of Scientific and Industrial Research" (CSIR), Ministry of Science and Technology, Govt. of India, is the NMI of India. Maintenance of national standards of physical measurements and metrology is one of its major mandates. The main objective of AdMet series is to provide a platform to metrologists, technocrats, researchers and students to present their research and development work, share their experience, identify thrust areas of R&D and foster collaborations with the fellow scientists from all over the world. The emphasis of AdMet-2013 will be on advances in quantum metrology with particular emphasis on time and frequency standards, electrical variables like voltage, resistance and current, development of quantum candela, precision measurements of nanoscale forces, dimensions, magnetic moments and photon flux. Special sessions will be organized on chemical and industrial metrology. National and international experts in metrology from various NMI's, laboratories and institutions will participate and share their knowledge and present their works. Last AdMet was organized in February 2009 and was attended by 350 registered participants from 30 countries. Thirty invited talks were delivered by eminent metrologists while 75 oral and 100 poster presentations were made. The AdMet-2013 will also feature an exhibition where state-of-the-art instruments, measurement systems and related accessories will be displayed for the benefits of the researchers. The exhibition is expected to provide an excellent opportunity to the manufacturers and service providers to show-case their products and services to target customers. The organizing committee invites all the concerned researchers, metrologists, academicians, policy makers and exhibitors to submit their research work for presentation and proposals for other conference related activities.

The AdMet-2013 will be organized in Delhi, the capital of India and a modern metropolis famous for its historical monuments, architectural grandeur and rich culture that enchants and fascinates people of all religions and nationalities. The cool and sunny climate of this metropolis during the proposed dates of AdMet-2013 will be of added advantage to our visitors for site seeing before and after the conference using the ultra modern Delhi Metro which connects to all famous tourists sites in the city.

#### Scope of the Conference

The following topics will be covered in AdMet-2013

- ❖ Frontiers of Metrology
- ❖ Time and Frequency Standards and Cold Atom Physics
- ❖ Quantum Electrical Metrology
- ❖ Photon Physics and Quantum Candela
- ❖ Nanometrology
- ❖ Relevance of Metrology to Environment, Safety, Health and the Socio-economic Development
- ❖ Chemical Metrology and Certified Reference Materials
- ❖ Traceability of Measurements and Issues Related to Mutual Recognition of Calibration / Test Certificates
- ❖ Industrial Metrology
- ❖ Key Comparison and Proficiency Testing

#### Pre-AdMet Workshop in Metrology

Pre-AdMet Workshop of one day duration is scheduled prior to AdMet-2013 on February 20, 2013 in the area of Metrology in Chemistry (other areas may be added).

#### Deadlines

Submission of abstracts (in MS Word/PDF) : 31<sup>st</sup> October 2012  
Notification of acceptance : 30<sup>th</sup> November 2012

#### Language

The language of the Conference will be English.

#### Registration Fee

Category	Pre-AdMet Workshop		AdMet		Workshop + AdMet	
	Up to 31.12.2012	After 31.12.2012	Up to 31.12.2012	After 31.12.2012	Up to 31.12.2012	After 31.12.2012
Indian Delegates	Non-MSI members	₹ 2000	₹ 2500	₹ 5000	₹ 6000	₹ 7500
	MSI members	₹ 1600	₹ 2000	₹ 4000	₹ 4800	₹ 5600
	Students	₹ 1000	₹ 1250	₹ 2500	₹ 3000	₹ 3500
For Foreign Delegates	US \$ 200 for all the events.					

DD/cheque may be issued in favour of "AdMet-2013" payable at Delhi.

For further details please contact

Dr. K.P. Chaudhary  
Convener, AdMet-2013  
convener@admetindia.org  
kpc@mail.nplindia.org  
Contact No.: +91-11-45608673  
Fax.: +91-11-42342417

Register yourself for AdMet-2013 and / or Workshop now through  
[www.admetindia.org](http://www.admetindia.org)



Jointly organized by: CSIR-National Physical Laboratory, New Delhi ([www.nplindia.org](http://www.nplindia.org)) and Metrology Society of India ([www.metrologyindia.org](http://www.metrologyindia.org))