

9th International Conference on Advances in Metrology (AdMet-2016), February 24-26, 2016

CSIR-National Physical Laboratory, New Delhi

Technical Programme

Day1, 24/02/2016 (Wednesday)

08:30 to 09:15 h	Registration
09:15 to 09:35 h	Inauguration <ul style="list-style-type: none"> Lamp lighting Welcome by Dr. D.K. Aswal, Director, CSIR-NPL About the conference by Dr. A. Sen Gupta, President MSI & Conference Chair, AdMet-2016
09:35 to 10:25 h	<ul style="list-style-type: none"> Keynote address by Dr. M. Milton, Director, BIPM (Chief Guest)
10:25 to 10:30 h	<ul style="list-style-type: none"> Vote of thanks by Dr. Y.P. Singh, Convener, AdMet-2016
10:30 to 11:00 h	Tea/Coffee
11:00 to 11:40 h	Plenary Talk1: Dr. Kamal Hossain (NPL, UK) Metrology for Grand Societal Challenges
	Technical Session 1: Quantum Metrology
11:45 to 12:10	Invited Talk1: Dr. Michael Podesta (NPL, UK) Beyond the International Temperature Scale of 1990
12:10 to 12:35	IT2: Dr. Yi Hua Tang (NIST, USA) Voltage Metrology, Watt Balance and the SI Redefinition
12:35 to 13:00	IT3: Prof. R.C. Budhani (Ex-Director, CSIR-NPL; IIT, Kanpur) The Pivotal Role of Superconductivity in the Development of Quantum Metrology
13:00 to 14:00	Lunch and Poster
	TS2: Temperature and Optical Metrology
14:00 to 14:25 h	IT4: Dr. Stefan Kueck (PTB, Germany) Recent Advances in The Detection Efficiency Calibration of Silicon Single-Photon Avalanche Diodes using Double Attenuator Technique
14:25 to 14:50 h	IT5: Dr. Y.P. Singh (CSIR-NPL) Advances and Challenges in Temperature Metrology
14:50 to 15:15 h	IT6: Dr. Armin Sperling (PTB, Germany) Calibration and Testing of Light Sources Based on LEDs and OLEDs
15:15 to 15:40 h	IT7: Mr. Richard Timmons (Guildline Instruments, Canada) New DC Temperature Bridge Technology - Design and Performance
15:40 to 16:05 h	IT8: Dr. Ranjana Mahotra (CSIR-NPL) Surface Enhanced Raman Spectroscopy in Molecular Detection, Diagnosis and Therapy
16:05 to 16:30 h	Tea and poster
	TS3: Pressure, Vacuum and Fluid Flow Metrology
16:30 to 16:55 h	IT9: Dr. Tokihiko Kobata (NMIJ, Japan) Effective Utilization of Industrial Digital Pressure Gauges in International Comparisons
16:55 to 17:20 h	IT10: Dr. A.K. Bandyopadhyay (Rtd. Chief Sci. CSIR-NPL) A Novel Approach Towards The Determination of E-Mass by Differential Pressure Measurement
17:20 to 17:50 h	IT11: Dr. Sanjay Yadav (CSIR-NPL) Metrological Equivalence, Traceability and Dissemination of National Pressure Standards and Some New Developments
17:50 to 18:25 h	IT12: Mr. S.K. Jaiswal (CSIR-NPL) An Overview of Fluid Flow Testing and Calibration Facilities at CSIR-National Physical Laboratory (NPLI)
	Evening Lecture
18:30 to 19:20 h	Dr. A. Sen Gupta (President MSI)

20:00 to 21:30 h

Dinner

Day2, 25/02/2016 (Thursday)

08:30 to 09:00 h	Registration
09:00 to 09:40 h	PT2: Dr. Joachim Ullrich (President PTB, Germany), SI Units The Silicon Route Towards the New SI
09:40 to 10:20 h	PT3: Prof. C. J. Tsai (NCTU, Taiwan), Particulate Metrology Particulate Metrology: Toward Accurate Ambient PM _{2.5} Ambient Sampling and Monitoring
10:20 to 10:40 h	Tea/Coffee and Poster
10:40 to 11:15	PT4: Dr. D.K. Aswal (Director, CSIR-NPL)
	TS4: General Metrology
11:20 to 11:45 h	IT13: Prof. E.S.R. Gopal (Ex-Director, CSIR-NPL) Leap Years, Leap Centuries and Leap Seconds: Less Known Interesting Facts
11:45 to 12:10 h	IT14: Dr. Wu Fangdi (Dy Director, NMI, China) NIM, Today and in Future
12:10 to 12:35 h	IT15: Prof. Krishan Lal (Ex-Director, CSIR-NPL) Increasing Sensitivity of Experimental Techniques Leads to New Insights: High Resolution X-ray Diffraction Experiments
12:35 to 13:00	IT16: Prof. K.S. Nagla (NIT, Jalandhar) Multi Sensor Data Fusion in Mobile Robots
13:00 to 13:50 h	Lunch and Poster
	TS5: Accreditation, Legal Metrology
13:50 to 14:15 h	IT17: Dr. Anil Relia (Director, NABL)
14:15 to 14:40 h	IT18: Dr. B.N. Dixit (Director, W&M, Legal Metrology)
	TS6: Length, Dimension and Nano Metrology
14:40 to 15:05 h	IT19: Dr. V.N. Ojha (CSIR-NPL) Needs and Challenges in Nanometrology: Role of National Measurement Institute
15:05 to 15:30 h	IT20: Dr. K.P. Chaudhary (CSIR-NPL)
15:30 to 15:55 h	IT21: Prof. S.H. Pawar (VC, D. Y. Patil Univ., Kolhapur) Critical Role of Nanometrology in Biological and Medical Sciences
15:55 to 16:20 h	IT22: Dr. Rina Sharma (CSIR-NPL) Dimensional Nanometrology: Needs, Challenges and Status at NPL India
16:20 to 16:50 h	Tea/Coffee and poster
	TS7: Metrology in Chemistry, Environment and Health
16:50 to 17:15 h	IT23: Dr. Prabhat K. Gupta (CSIR-NPL) Realization of Mole under Metrology in Chemistry Activity: Current Status and Future Plan
17:15 to 17:40 h	IT24: Prof. Ravinder Agarwal (Thapur University) Agriculture Crop Residue Burning in Indo Gangatic Plains: A Global Threat
17:40 to 18:30 h	Presentations from sponsoring companies (10 min each)
	Mitutoyo South Asia Pvt. Ltd., New Delhi
	Fluke Technologies Pvt. Ltd., New Delhi
	Advance Technical Systems Pvt. Ltd., New Delhi
	WIKA Instruments India Pvt. Ltd., Delhi
	Octagon Precision India Pvt Ltd., Pune
18:30 to 19:00 h	Poster Session
19:00 to 20:00 h	Cultural Event
20:00 to 21:30 h	Dinner

Day3, 26/02/2016 (Friday)

09:00 to 09:40 h	PT5: Dr. James K. Olthoff (NIST, USA), Physical Metrology Embedded Measurements- The Future of Metrology
09:40 to 10:20 h	PT6: Dr. Jorge C. Torres Guzman (CENAM, Mexico), Mechanical Metrology
10:20 to 10:40 h	Tea/Coffee and Poster
	TS8: Electrical and Magnetic Metrology, Time and Frequency
10:40 to 11:05 h	IT25: Dr. R.K. Kotnala (CSIR-NPL) International Magnetic Standards on Electrical Steel to Hydroelectric Cell as Green Energy Solution
11:05 to 11:30 h	IT26: Mr. Thomas John (CSIR-NPL) LF, HF Impedance & DC Standards at CSIR-NPL: Present Status
11:30 to 11:55 h	IT27: Mr. P.S. Negi (CSIR-NPL) Importance of NMIs Participation in BIPM Key/ Supplementary Inter-comparisons
11:55 to 12:20 h	IT28: Mr. M.A. Ansari (CSIR-NPL) Present Status and Future Plan of AC High Voltage and High Current Standards at CSIR-NPL
12:20 to 12:45 h	IT29: Dr. H. K. Singh (CSIR-NPL) Recent Progress in Quantum Hall effect Resistance Metrology
12:45 to 13:10 h	IT30: Dr. Ashish Agarwal (CSIR-NPL) Time and Frequency Metrology at NPL India
13:10 to 13:50 h	Lunch and Poster
	TS9: Mass, Force Metrology
13:50 to 14:15 h	IT31: Dr. Jin-Wan Chung (KRISS, Korea)
14:15 to 14:40 h	IT32: Mr. Anil Kumar (CSIR-NPL) Mass Realization in Legal Metrology Way
15:05 to 15:30 h	IT33: Dr. S.S.K. Titus (CSIR-NPL) Facilities Established at CSIR-NPL for the Realization and Dissemination of Force, Torque and Hardness Measurements
15:30 to 16:00 h	Presentations by exhibition stall holders (5 min each)
16:00 to 16:30 h	Closing
16:30 to 18:00	Tea and AGM of MSI

Venue: Registration desk will be situated at Dr. A. R. Verma lawn (in front of auditorium NPL).

All talks and functions will be held at auditorium NPL