

# Workshop cum 8<sup>th</sup> National Conference on Advances in Metrology (AdMet-2023)

## TECHNICAL PROGRAM

### PRE-ADMET WORKSHOP ON “RADIATION METROLOGY FOR NUCLEAR MEDICINE & INDUSTRIES”

**March 23, 2023 : Workshop**

08:30 hrs

Registration

09:30 hrs

Inauguration

10:30 hrs

High Tea

11:00 hrs

Session 1 – Radiation Metrology in Nuclear Medicine

Chair: Dr. M.S. Kulkarni, BARC Co-Chair: Dr. Sanjay Yadav, MSI

**Radiation Metrology in India – Current Practices and Future Needs:**  
*Shri Probal Chaudhary, BARC*

**Radioisotopes in Nuclear Medicine and Industries in India:**  
*Dr. Anupam Mathur, BRIT*

**Metrological Challenges in Radiation Dosimetry in Health Care  
& Other Industry:**  
*Dr. (Smt.) B.K.Sapra, BARC*

**NORM Industries–A new Dimension of the National Metrological System:**  
*Dr. S.K. Jha, BARC*

13:00 hrs

Lunch

14:00 hrs

Session 2 – Nuclear Medicine and its application

Chair: Dr. (Smt.) B.K. Sapra, BARC Co-Chair: Shri Alok Shrivastava, BARC

**Nuclear medicines- An alternative or choice of future:**  
*Dr. Venkatesh Rangarajan, Tata Memorial Centre, Mumbai*

**Internal Dosimetry in Nuclear Medicine: The Basis on Current Status in  
Clinical Applications in Radionuclide Therapy**  
*Dr. Sandeep Basu, Radiation Medicine Centre, Mumbai*

**Advances in Nuclear Medicine- A National and Global Perspective:**  
*Dr. Anshu Rajnish Sharma, Kokilaben Dhirubhai Ambani Hospital, Mumbai*

**Radiopharmaceuticals– Magical Probes for Diagnosing Diseases:**  
*Dr. Tapas Das, BARC*

**16:00 hrs**

**Tea**

**16:30 hrs**

**Demonstration of Radiological Instruments**

**17:30 hrs**

**Metrological Overview of Private Industries**

*Ms. Minu Singh, Nuvia-India Pvt. Ltd.*

*Dr. Y.P. Singh, Farelabs*

*Mr. Tarak N. Shah, PLA Electro Appliances Pvt. Ltd.*

**19:30 hrs**

**Dinner**

# Workshop cum 8<sup>th</sup> National Conference on Advances in Metrology (AdMet-2023)

## TECHNICAL PROGRAM

Theme of the National Conference “Metrology for  
Science & Industrial Growth”

**March 24, 2023 : Conference – Day 1**

08:30 hrs	Registration
09:30 hrs	Inauguration
Welcome address	Dr. Sanjay Yadav Vice-President, MSI
Inaugural address	Shri Sanjeevkumar Principal Director, IDEMI
Address by Chief Guest	Shri Rohit Kumar Singh, IAS Secretary, Ministry of Consumer Affairs, Government of India
Keynote address	Dr. Dinesh K. Aswal Director, HS&E Group, BARC
Release of Book	Handbook of Metrology & Application D.K. Aswal et. al., Springer Nature
Vote of Thanks	Dr. S. K. Jha Convener, AdMet-2023
11:00 hrs	Inauguration of Exhibition

11:10 hrs High Tea

11:30 hrs Technical Session 1

Chair: Dr. Sumit Som, VECC Co-Chair: Dr. Nagahanumaiah, CMTI

- IT-1 Role of Radiation Standards in National Metrology: *Dr. M.S. Kulkarni, BARC*
- IT-2 Trends, Impact and Challenges in Metrology:  
*Dr. Sanjay Yadav, MSI*
- IT-3 Accreditation of Laboratories-National  
Commitment vis-à-vis International Acceptance: *Shri Avijit Das, NABL*
- IT-4 Role of Standards in National Metrological System: *Shri R.R. Singh, BIS*
- IT-5 National Quality Infrastructure-Present and Future Need: *Shri Alok Jain, QCI*

13:30 hrs

Lunch

14:30 hrs

**Poster Session (P-1 to P-100)**

15:30 hrs

Tea

16:00 hrs

**Technical Session 2**

**Chair : Dr. Avinash Kumar Srivastava, AMPRI    Co-Chair : Dr. Avijit Das, NABL**

**IT-6**

**Medical Cyclotron -A New Frontier in Indian Health Care Space:**

*Dr. Sumit Som, VECC*

**IT-7**

**Legal Metrology-A National Requirement for Economic Prosperity:**

*Dr. Ashutosh Agarwal, Legal Metrology*

**IT-8**

**Development of Cognitive Skills Enhancement Training Model:**

*Dr. Ravindra Agarwal, Thapar University*

**IT-9**

**Developments in Physico-Mechanical Metrology at CSIR-NPL with Focus towards  
Realization of New Definitions of SI Units:**

*Dr. Nita Dilawar, CSIR-NPL*

**IT-10**

**Generation and Dissemination of Indian Standard Time:**

*Dr. Ashish Agarwal, CSIR-NPL*

**IT-11**

**Gas Metrology- Traceability Dissemination in Gas Measurements:**

*Dr. Daya Soni, CSIR-NPL*

18:00 hrs

Tea

18:30 hrs

**Cultural Programme**

19:30 hrs

**Conference Dinner**

# Workshop cum 8<sup>th</sup> National Conference on Advances in Metrology (AdMet-2023)

## TECHNICAL PROGRAM

Theme of the National Conference “Metrology for  
Science & Industrial Growth”

March 25, 2023 : Conference – Day 2

09:00 hrs

Technical Session 3

Chair: Shri Probal Chaudhary, BARC    Co-Chair: Dr. Nita Dilawar, CSIR-NPL

IT-12    The Role & Responsibility of Accreditation Body and National Measurement Institute (NMI) to Promote Quality Free from Conflict of Interest:  
*Dr. R.K. Kotnala, Ex-NABL*

IT-13    Importance of Standards in Materials: *Dr. Avinash Kumar Srivastva, AMPRI*

IT-14    Metrology in Oceanography: *Dr. Sunil Kumar Singh, NIO*

IT-15    Recent Advancements in Temperature and Humidity Metrology at CSIR-NPL:  
*Dr. D. D. Shivagan, CSIR-NPL*

IT-16    Measurement and Standardization Challenges in Multi-scale Precision Manufacturing:  
*Dr. Nagahanumaiah, CMTI*

IT-17    National Primary Standard Facility for Solar Cell Calibration at CSIR-NPL-  
Foundation towards PV Quality Infrastructure in the Country:  
*Dr. S.K. Srivastava, CSIR-NPL*

11:00 hrs

Tea

11:30 hrs

Technical Session 4

Chair: Dr. R.K. Kotnala, Ex-NABL    Co-Chair: Dr. Sunil Kumar Singh, NIO

IT-18    New Dimension in Metrology: *Dr. K.P. Chaudhary*

IT-19    Role of IDEMI in Metrology for Industrial Growth in India :  
*Shri Pradeep Gujarathi, IDEMI*

IT-20    Flow Measurement for Industrial Growth of the Country:  
*Dr. S K Jaiswal, CSIR-NPL*

- IT-21**      **Reliability of Measurement in the Field in the Era of Digital Technologies:**  
*Mr. Hemal Desai, Endress and Hauser (I) Pvt. Ltd.*
- IT-22**      **Compliance- The Life Cycle Management of Measuring Equipments:**  
*Mr. Milind Kulkarni, Mettler-Toledo*
- IT-23**      **Air Quality Measurement Technologies- Gaps and Opportunities for Indian Manufacturers:** *Dr. Shankar Aggarwal, CSIR-NPL*
- IT-24**      **Necessity of Testing of Smart Energy Meter:** *Shri Shilendra Goyal, ZERA India Pvt. Ltd.*
- IT-25**      **Bharatiya Nirdeshak Dravya (Indian Reference Material)- To Ensure the Quality of the Product:** *Dr. Nahar Singh, CSIR-NPL*

**13:30 hrs**

**Lunch**

**14:30 hrs**

**Poster Session (P-101 to P-205)**

**15:30 hrs**

**Tea**

**16:00 hrs**

**Technical Session 5**

**Chair:** Dr. A. Vinod Kumar, BARC    **Co-Chair:** Shri Pradeep Gujarathi, IDEMI

- IT-26**      **Metrological Activities at FARE Labs Gurgaon:** *Dr. C.S. Joshi, Farelabs, Gurugram*
- IT-27**      **Precise and Secure Time Transfer through Underground Optical Fibres of Telecommunication Sectors:** *Dr. Subhasis Panja, CSIR-NPL*
- IT-28**      **Current Status of Acoustics and Vibration Standards of CSIR-National Physical Laboratory and its Socio-Economic Impact:** *Dr. Naveen Garg, CSIR-NPL*
- IT-29**      **Force, Torque and Hardness Metrology at CSIR-NPL and their Role in the Infrastructure Sectors and Industries:** *Dr. S.S.K. Titus, CSIR-NPL*

**17:00 hrs**

**High Tea**

**17:30 hrs**

**Valedictory Function**