

**7th National Conference**  
on  
**“Advances in Metrology”**  
**AdMet-2021**

**Maharaja Surajmal Institute of Technology** is immensely pleased to organise **7th National Conference** on “Advances in Metrology” **AdMet-2021** on March 5<sup>th</sup> and 6<sup>th</sup>, 2021. **AdMet-2021** is organized in association with CSIR-National Physical Laboratory (**CSIR-NPL**), Metrology Society of India (**MSI**) and National Accreditation Board for Testing & Calibration Laboratories (**NABL**) India.

The conference is intended to provide a forum for original research findings, as well as exchange and dissemination of innovative, practical development experiences in different fields of **Measurement and quality improvement**. The Theme of the conference was “**Sensors & Advance Materials for Measurement & Quality Improvement**”. The conference was sponsored by NABL, CSIR, Mitutoyo, Accurate and Aditya engineering Pvt. Ltd., JASH, Farelabs, SAI adventure, Peacock precision Instruments etc.

We were fortunate to have received over 170 research articles from all over the country, wherein we shortlisted 125 papers for our conference after rigorous double-blind peer review process. The shortlisted papers were presented in 6 parallel technical sessions and 2 poster sessions on both the days. The Proceedings of the conference is published by Scopus Indexed Edited Book by Springer: *Lecture Notes In Electrical Engineering*. Selected high quality 24 research papers are published in the special issue “**Sensors and Advanced Materials for Futuristic Metrological Applications**” of **MAPAN** (a SCIE indexed journal published by Springer with Impact Factor of 1.033).

We were honoured to have Dr. D. K. Aswal, Director-NPL, as our Chief Guest and Mr. Karnal Singh, IPS, former chief of enforcement directorate as Guest of Honour for the inauguration on 5<sup>th</sup> March, 2021. Dr. D.K. Aswal, Director NPL, highlighted the importance of Metrology by quoting real life examples. He motivated the gathering to do measurements accurately for the benefit of the mankind. Our worthy guest of Honour Mr. Karnal Singh explained the significance of metrology since ancient times.

A galaxy of eminent scientists and researchers joined us as keynote speakers. Dr. D.K. Aswal, Director CSIR-NPL, discussed about Aswal Model of Inclusive Growth. Our another Keynote speaker Dr. A. Sengupta, Former Outstanding Chief Scientist, CSIR-NPL discussed about the Navigation with Indian Constellation and Its Applications in Metrology. Dr. R.K. Kotnala, Chairman-NABL, Raja Raman Fellow, DAE threw light on A Better Quality Life for Rural Population through Legal Metrology, Magnetic Standards & Hydroelectric Cell. Dr. Sanjay Yadav, Vice-President Metrology Society of India, HOD, Physico-Mechanical Metrology Division, Editor-in-Chief, MAPAN, CSIR-NPL enlighten us about Physico-Mechanical Metrology (PMM) at CSIR-NPL: Status, Recent Development & Its Role in Nation Building. **Dr. Aman Dahiya**, Co-convener, Assistant Profesor, ECE department proposed the vote of thanks to all who supported in the organization of this event.

After the grand success on the inaugural day, the second day started with great energy and enthusiasm. The first Keynote commenced with **Prof. Ravinder Aggarwal**, Head of Electrical & Instrumentation Engg. Deptt., Thapar Institute of Engineering & Technology, talked about Development of Wireless Foot Pressure Sensor Insole. Following his enlightening talk, **Prof. K.P. Chaudhary**, **Organizing chair, AdMet-2021** presented a talk

on the role of metrology in fourth industrial revolution (Industry 4.0). Lastly, **Dr. Avanish Srivastava**, Director, CSIR Advanced Materials & Processes Research Institute, Bhopal, delivered a talk via online platform on importance of standards in materials.

The valedictory session was concluded with benign presence of chief guest **Dr. Krishan Lal**, Former INSA President, Former Director, CSIR-NPL. He highlighted on basic foundation of measurement criterion. The guest of honour **Prof. Prem Vrat**, Pro-Chancellor, Professor of Eminence and Chief Mentor at The NorthCap University, Gurugram addressed the gathering enthusiastically and talked about significance of measurements. Best researchers of each session were awarded with certificate of research excellence. **Prof. A.K. Singh**, Director MSIT, proposed the vote of thanks to august gathering.



Inauguration (5<sup>th</sup> March, 2021)



Valedictory (6<sup>th</sup> March, 2021)



**Conveners**