

International Symposium on Instrumentation – 03
National Symposium on Instrumentation-43
7th-9th October, 2021 : Highlights

Plenary Talks (2):

Development of Light Combat Aircraft-- Role of Test facilities & Technologies

Padma Shri **Dr. Kotaharinarayana**, Program Director-LCA, *Aeronautical Development Agency*

Deep space optical coatings

Dr. T. G. K. Murty, Former Distinguished Scientist and Program Director at ISRO Headquarters, *ISRO*

ISOI Sponsored Talks (5):

Prof. Satish Dhawan Memorial Lecture: Nanostructured Chemiresistive Gas Sensors

Prof. Navakanta Bhat, Dean Interdisciplinary Sciences, *CeNSE, IISc Bangalore*

Prof. M.R. Rao endowment lecture: Effects of Atmospheric Turbulence on Directed Energy System for Anti-UAV Applications

Dr. Jagannath Nayak, Director, *Centre for High Energy Systems and Sciences, DRDO*

ISOI Young Engineer Awardee Lecture: Improving optoacoustic imaging by incorporating optical and acoustic modeling

Dr. Jayaprakash, Assistant Professor, *Instrumentation and Applied Physics, IISc Bangalore*

Tribute to Prof. K. L. Chopra Lecture: Dr. Milind Acharya, Founder and Executive Director, *Milman Thin Film Systems*

Tribute to Prof H. A. Macleod Lecture: Dr. K. Balasubramanian, *Jet Propulsion laboratory, NASA*

Invited Talks (14): CoViD-19, Biomedical Instrumentation, Sensors & Transducers, Electro-optics, Automation and Control, AI Application

Design of protein subunit Covid-19 vaccines

Prof. Raghavan Vardharajan, Professor, *Molecular Biophysics Unit, IISc, Bangalore*

Indigenous oxygen concentrator

Prof. Praveen C Ramamurthy, Professor, *Department of Materials Eng., IISc, Bangalore*

Multi-modal Imaging: Photoacoustic Imaging Plus More

Prof. Chulhong Kim, Young Distinguished Professor and Mueunjae Chair Prof. *Medical Device Innovation Center, POSTECH, S. Korea*

Fiber optic point-of-care and array biosensor device and technology development

Prof. Raghavendra Sai V. V., Associate Professor, Biomedical Eng., *Department of Applied Mechanics, IIT M*

Optical Coherence tomography for applications in Gastroenterology

Prof. Renu John, Professor and Head, *Dept. of Biomedical Eng., IITH*

Optical techniques for non-invasive precision metrology

Prof. Gannavarpu Rajshekhar, Associate Professor, *Electrical Eng., IITK*

Smartphone based electro-optic sensing for medical diagnosis

Prof. Satish Kumar Dubey, Associate Professor, *SENSE, IITD*

Thin Film Bulk Acoustic Resonator Sensors: from Engineering to Applications

Prof. Andrew Flewitt, Head of Division, Electrical Eng., *University of Cambridge, UK*

Fibre Optic Sensors for Industrial Applications

Prof. Keneth Grattan, OBE FREng, Royal Academy of Engineering - George Daniels Professor of Scientific Instrumentation, *Electrical & Electronic Eng., City University of London*

Photonic Meta-materials, Multi-beam Interference Lithography & Super-resolution Imaging

Prof. Joby Joseph, Professor and Head of the *Optics and Photonics Centre, IIT Delhi*

Nanoscale photonic devices for linear and nonlinear applications

Prof. S. K. Varshney, Associate Professor, *Electrical Eng., IITKGP*

Advanced Interfacing Techniques for Sensors

Prof. Bobby George, Professor *Electrical Eng., IITM*

Unobtrusive sensing in Industry 4.0

Dr. Tapas Chakravarthy, Principal Scientist, *TCS Research*

Listening to the sound of COVID-19 - Developing diagnostic methods using acoustics

Prof. Sriram Ganapathy, *Electrical Eng., IISc Bangalore*

Deep Learning-enabled Computational Microscopy and Sensing

Prof. Aydogan Ozcan, Chancellor's Professor and Volgenau Chair for Engineering Innovation, *Electrical & Computer Eng., Bioeng., UCLA*

Industrial Talks (6): TCS, St. Gobain glass, Openwater, ShanMukha Innovations, Voxelgrids, Renalyx Forus Health

Number of Contributed Talks: 35

Number of Poster Presentations: 8

Post-Doctoral and Doctoral Research Talks: 15

Chairs: Jayaprakash, Tapajyoti Das Gupta

Executive Council of ISOI: S. Asokan, Sai Siva Gorthi, K. Phaneendra K Yalavarthy, Vasanth Kini, G.R. Jayanth, Mukartihal G. B.