

Technical Program Schedule – IEEE WRAP 2019

December 13, 2019

Inauguration 8:30 – 8.50 AM

Venue: Conference Hall: 2

Plenary Lecture: Prof. Jagadish Chennupati, Australian National University, Australia

Title: Semiconductor Nanowires for Optoelectronics Applications

(8:50 AM – 9:30 AM)

Chair: Prof. Michael Feiginov, TU-Vienna, Austria

Venue: Conference Hall: 2

High Tea & Registration (9:30 AM – 10:15 AM)

Technical Session - I: Terahertz Photonics (10:15 AM -12:45 PM)

Session Chair: Dr. Shourya Dutta Gupta, IIT Hyderabad

Venue: Conference Hall: 2

10:15 AM – 10:40 AM	Prof. Dai Sik Kim, UNIST, Korea <i>Title: Terahertz quantum plasmonics of nano and Angstrom antennas</i>
10:40 AM – 11:05 AM	Prof. Michael Feiginov, TU-Vienna, Austria <i>Title: THz resonant-tunneling diodes</i>
11:05 AM – 11:30 AM	Dr. Abul Azad, Los Alamos National Laboratory, USA <i>Title: Metasurface for microwave beam controlling</i>
11:30 AM – 11:55 PM	Dr. Amit Agrawal, NIST Gaithersburg, USA <i>Title: Metasurfaces for Shaping Optical Fields: From Deep-UV to the Terahertz</i>
11:55 PM – 12:20 PM	Prof. Naresh Kumar Emani, IIT Hyderabad <i>Title: Directional Lasing in Resonant Semiconductor Nanoantennas Arrays</i>
12:20 PM – 2:00 PM	Lunch (Mini Audi Foyer)

Technical Session – II: Laser science and ultrafast optics (2:00 PM – 4:05 PM)

Chair: Prof. Devendra Mohan, G. J. University, Hisar

Venue: Conference Hall: 2

2:00 PM – 2:25 PM	Dr. Sajal Biring, Ming-Chi University of Technology, Taiwan <i>Title: Effect of Schottky Barrier on Open-Circuit Voltage of Small Molecular Organic Photovoltaics and Indoor light harvesting</i>
2:25 PM – 2:50 PM	Prof. Soma Venugopal Rao, ACRHEM, University of Hyderabad, India <i>Title: Novel, Practical SERS Substrates for Explosives Detection: Recent Advances</i>
2:50 PM – 3:15 PM	Prof. Anil K Chaudhary, ACRHEM, University of Hyderabad, Hyderabad <i>Title: Efficient Terahertz Generation from some new Organic-inorganic indigenously grown nonlinear crystals and its application to study nonlinear properties of explosives</i>
3:15 PM – 3:40 PM	Prof. Shriganesh Prabhu, TIFR, India <i>Title: Tera-Hertz Photoconductive Sources and Spectroscopy of Materials</i>
3:40 PM – 4:05 PM	Dr. Elisabetta Boella, Lancaster University, UK <i>Title: Ion acceleration in laser matter interaction.</i>
4:05 PM – 4:30 PM	TEA
4:05 PM – 6:00 PM	Poster Session – I (Main Auditorium Foyer)
6:00 PM – 7:00 PM	IEEE mentor-mentee program meeting (Mini Auditorium)
7:30 PM – 9:00 PM	Banquet dinner and The President’s reception hosted by the IEEE Photonics Society

December 14, 2019

Technical Session - III: Silicon Waveguides, Spectroscopy and applications (9:40 AM -12:35 PM)	
Session Chair: Prof. Dai Sik Kim, UNIST, Korea Venue: Conference Hall: 2	
9:30 AM – 9:55 AM	Prof. J. S. Aitchison, University of Toronto, Canada <i>Title: Augmented Low Index Waveguides: Applications</i>
9:55 AM – 10:20 AM	Prof. D Narayana Rao, University of Hyderabad, India <i>Title: Photonic Crystal cavity Effects in Nonlinear Absorption, Photoluminescence and Energy Transfer</i>
10:20 AM – 10:45 AM	Prof. Prabhat Verma, Osaka University, Japan <i>Title: Nanoimaging and Sensing through Plasmonically Enhanced Spectroscopies</i>
10:45 AM – 11:20 AM	TEA
11:20 AM – 11:45 PM	Dr. Shourya Dutta Gupta, IIT Hyderabad <i>Title: Biosensing using metasurface enhanced infrared absorption spectroscopy</i>
11:45 PM – 12:10 PM	Dr. R. K. Bahl, Indian Space Research Centre, India <i>Title: Microwave photonics: photonic communication technologies and 5 Gbps receiver circuit</i>
12:10 PM – 12:35 PM	Dr. K. S. Joseph Wilson, AA College, India <i>Title: Nanophotonics devices</i>
12:35 PM – 3:00 PM	Poster Session – II (Main Auditorium Foyer)
2:00 PM – 3:00 PM	IEEE Photonics Society Leadership Meeting (Mini Audi)
12:35 PM – 2:00 PM	Lunch (Mini Audi Foyer)

Technical Session – IV: Optical fiber Communication and Applications (3:00 PM – 6:30 PM)	
Session Chair: Prof. T Srinivas, IISc, Bangalore, India Venue: Conference Hall: 2	
3:00 PM – 3:25 PM	Dr. Hitesh Mehta, Managing Director, Eagle Photonics, India <i>Title: New generation Hi-Fidelity Fiber optic sensing</i>
3:25 PM – 3:50 PM	Dr. Naresh Chand, Associate Vice President, Chapter Relations, IEEE <i>Title: Potential of Photonics in Driving Low-Carbon Economic Growth of Digital India Towards \$5T</i>
3:50 PM – 4:15 PM	Dr. Shailendra Varshney, IIT Kharagpur, India (SKYPE) <i>Title: Optical Fiber Tip Structuring: Meta to Sensing Applications</i>
4:15 PM – 4:40 PM	Prof. Debabrata Goswami, IIT Kanpur (SKYPE) <i>Title: Spatiotemporal Control at Nanoscale: Myriads of possible applications including Remote Sensing and Computing</i>
4:40 PM – 5:00 PM	Valedictory
5:00 PM	TEA