

## *List of invited speakers and resource persons*

	<p>Prof Paras N Prasad Distinguished Professor of Chemistry, Physics, Medicine and Electrical Engineering Executive Director ILPB, Institute for Lasers, Photonics and Biophotonics University at Buffalo, USA Research Area: Lasers, Photonics and Biophotonics</p>
	<p>Prof. Takahiro Maruyama Director , Faculty of Science and Technology , Meijo University, Japan Research Area: Nanomaterials: Single-walled carbon nanotubes (SWCNTs), Applications of CNT</p>
	<p>Prof Jonathan Bird Professor and Chair Department of Electrical Engineering University at Buffalo, USA Research Area: Nanoelectronics and mesoscopic physics: fundamental investigations of quantum phenomena; explorations of new device and sensing paradigms; electrical properties of novel nanomaterials</p>
	<p>Prof Huamin Li Professor Department of Electrical Engineering University at Buffalo, USA Research Area: Nano-scale electronics and optoelectronics based on low-dimensional materials</p>
	<p>Prof Vasili Perebeinos Professor Department of Electrical Engineering University at Buffalo, USA Research Area: Theory and modelling of electrical and optical properties of low dimensional materials such as carbon nanotubes, graphene, and other 2D materials</p>
	<p>Prof Mark T. Swihar, SUNY Distinguished Professor Department Chair, Department of Chemical and Biological Engineering University at Buffalo, USA Research Area: Synthesis and application of nanoparticles; Detailed chemical kinetic modeling in reacting flows</p>
	<p>Prof Toomas Plank Director, Laboratory of Plasma Physics, University of Tartu, Estonia Research Area: Laser induced breakdown spectroscopy (LIBS), Modelling of gas discharge</p>
	<p>Professor Ken Tye Yong School of Biomedical Engineering University of Sydney, Australia Research Area: engineering nanomaterials for biophotonic and nanomedicine applications, nanotoxicity and pharmacokinetics of nanomaterials, fabricating miniaturized microdevices for biological applications, designing nanosensors for biodetection, modelling of microfluidics and plasmonic sensor systems, creating devices for nanophotonics studies, applying triboelectric nanogenerator for drug delivery applications, the developing of RNA delivery platform based on conjugated oligoelectrolytes and applications of wearable technologies.</p>



Prof Bharat Baruah  
Professor of Chemistry  
Department of Chemistry and Biochemistry  
Kennesaw State University, USA  
Research Area: Environmental remediation , SERS Detection, Corrosion Preventive Coating for Al-alloy



Prof A. Chatt  
Adjunct of the Faculty of Graduate Studies, Dalhousie University, Canada  
Research Area: Analytical chemistry, Nuclear chemistry, Materials chemistry



Prof Supriya D. Mahajan  
Department of Medicaine  
University of Buffalo, USA  
Research Area: Apoptosis and cell death; Bioinformatics; Endocrinology; Gene Expression; Gene Therapy; Genomics and proteomics; Immunology; Molecular and Cellular Biology; Molecular Basis of Disease; Neurobiology; RNA; Viral Pathogenesis



Prof Amitava Patra  
Director: Institute of Nano Science & Technology, Mohali  
Research Area: Nanoscience and nanotechnology



Dr. Raghunath Acharya  
Professor (Chemistry), HBNI, DAE & Head, Nuclear Analytical & Accelerator Chemistry Section, RCD, BARC, Trombay, Mumbai, India.  
Research Area: Neutron Activation Analysis, nuclear analytical technique for trace element determination



Dr. Aiswarya Bhaskar  
**Scientist**, ECPS, electrochemical research Institute, karaikudi, India  
Research Area: Synthesis of inorganic materials (nano and micro) for various applications, Degradation and electrochemical mechanisms' elucidation for intercalation batteries



Dr. Shelke Manjusha  
Physical and Materials Chemistry Division  
CSIR-National Chemical Laboratory, Pune  
Research Area: Lithium, sodium, sulfur, and zinc-based batteries



Dr. Kaushik Ghosh  
Institute of Nano Science & Technology, Mohali



Professor Santanu Chattopadhyay  
Professor and Head, Rubber Technology Centre, IIT Kharagpur  
Fracture of elastomeric composites, Life prediction of rubber products, Smart rubber composites,  
Research Area: Biomaterials, and Polymers for health care and energy harvesting



Prof Girish Joshi  
Institute Of Chemical Technology, Mumbai  
Research Area: Polymer Nanocomposites and blends, Dielectric materials, Ultramicroscopy



Prof. C. R. Bhattacharjee  
Professor of Chemistry, Assam University, Silchar, India  
Research Area: Synthesis of nanostructured materials and their applications



Professor. Ajit Kumar Mahapatra  
Professor · Indian Institute of Engineering Science and Technology, Shibpur, India  
Research Area: Design and synthesis of Fluoroionophore-based chemosensors and chemodosimeters



Prof Sujit Ghosh  
Professor in Chemistry, [Visvesvaraya National Institute of Technology, Nagpur](http://www.vsnl.ac.in)  
Application of Molecular Spectroscopy for Optoelectronic Materials and Theragnostic Drug Research Area: Development,

Biophysical Chemistry, P3: Photophysics, Photochemistry & Photobiology.



Prof. Jayashree Rout

Dean, E P Odum School of Environmental Sciences Professor, Department of Ecology & Environmental Science, Assam University, Assam

Research Area: Algology, Lichenology, Environmental Biotechnology



Dr. Manash R. Das, Principal Scientist & Associate Professor,

Advanced Materials Group, Materials Sciences and Technology Division, CSIR-North East Institute of Science and Technology Jorhat, Assam, INDIA

Research Area: Functionalization of graphene and other 2D nanomaterials, borophene and boron nitride chemistry, nanozyme, decoration of metal nanoparticles, bimetallic nanoparticles and metal oxide on the graphene and other 2D nanosheets sheets and their applications in photocatalysis, peroxidase mimic activity, organic catalysis reaction, colorimetric and fluorescence detection of analyte, sensor, paper based analytical device etc



Dr. Rajendra Kumar Singh Present Position: Senior Professor , Dept of Physics, Banaras Hindu University, India

Research Area: electrodes and electrolyte materials for lithium/sodium ion rechargeable batteries



Dr. Debmalya Roy

Head, Directorate of Nano materials and Technologies, DMSRDE, Defence Research and Development Organization (DRDO), GT Road, Kanpur

Research Area: Nanomaterials



Dr Tapan Mahato  
Scientist-F Head Protective Coatings Naval Materials Research  
Laboratory, Adtl. Ambernath, Thane, Mumbai, India.  
Research Area: Resin Paints and coatings



Dr Debdatta Ratna  
Scientist G, Polymer Science and Technology, Naval Materials Research  
Laboratory, Adtl. Ambernath, Thane, Mumbai, India  
Research Area: polymers, Blends, composites, nanomaterials



Prof Sunil Bhand  
Senior Professor, Department of Chemistry, BITS-Pilani K. K. Birla Goa Campus  
Research Area: Food safety, Environmental analysis, Biosensors



Prof Anshuman Dalvi  
Professor, Department of Physics, BITS Pilani, Pilani Campus  
Research Area: Developing solid state ionic devices such as batteries and supercapacitors



Prof Narendra Nath Ghosh, FRSC  
Department of Chemistry, BITS-Pilani K. K. Birla Goa Campus  
Research Area: Nanostructured Materials: Synthesis and applications in Energy storage, Energy conversion, water treatment.



Prof Mainak Banerjee  
Professor, Department of Chemistry, BITS-Pilani K. K. Birla Goa Campus

Research Area: Medicinal Chemistry, Green Chemistry, Organic Synthesis, Mechanochemistry, Supramolecular Chemistry



Prof. Amrita Chatterjee Professor, Department of Chemistry, BITS-Pilani K. K. Birla Goa Campus

Research Area: Molecular sensors using Aggregation-Induced emission (AIE), ESIPT and conventional dye molecules; Graphene oxide and Carbon nano dots based material for sensing application; nanoparticle based sensors polydiacetylene based sensor and green chemistry



Prof. Meenal Kowshik, Professor, Department of Biological Sciences, BITS-Pilani K. K. Birla Goa Campus

Research Area: Bionanotechnology, Biocompatible materials for biomedical applications



Dr Subhasis Roy, Assistant Professor, Department of Chemistry, BITS-Pilani K. K. Birla Goa Campus

Research Area: Supramolecular Chemistry, Peptide Chemistry, Supramolecular Electronics, Materials Chemistry.



Dr. Surojit Pande

Professor, Department of Chemistry, BITS Pilani, Pilani Campus

Research Area: Nanomaterials, Catalysis, Electrocatalysis, SERS



Prof Chanchal Chakraborty

Assistant Professor Department of Chemistry BITS-Pilani, Hyderabad Campus

Research Area: Electrocatalysis, Fuel cells, Energy storage devices, Electrochromic smart windows, Energy Conversion, Conjugated Polymer, Metal-organic hybrid materials



Dr. Mrinmoyee Basu

Assistant Professor, Department of Chemistry, BITS Pilani, Pilani Campus

Synthesis of different hierarchical nanostructured materials, Synthesis of vertically grown 2D Sheets of different metal chalcogenides, Development of stable and efficient photoelectrode for photoelectrochemical water splitting. Development of suitable material for electrochemical H<sub>2</sub> and O<sub>2</sub> evolution.



Prof Sarbani Ghosh, Assistant Professor, Department of Chemical Engineering, BITS Pilani, Pilani Campus  
Computational Materials Design and Simulation



Dr. Tribeni Roy, Assistant Professor, Department of Mechanical Engineering, BITS Pilani, Pilani Campus  
Energy storage devices, machine learning, molecular dynamics



Dr Bhanudas Naik, Department of Chemistry, Dhempe College of Arts & Science, Miramar, Goa  
Nanomaterials, High surface area materials, electrochemical sensors





**Prof. Vrinda Borker**

Department of Chemistry, Dhempe College of Arts & Science, Miramar, Goa  
Solid State materials, Magnetic materials, photocatalysis