

Fourth Symposium on Advances in Sustainable Polymers (January 8 -11, 2018)

Day 0: January 07, 2018 Welcome Party (19:00 Hrs-22:00 Hrs)			
Day 1: January 08, 2018			
Registration of ASP-17 (08:00 Hrs-09:00 Hrs)		Venue: Conference Center; IIT Guwahati	
Inauguration of ASP-17 (09:00 Hrs-10:00 Hrs)		Venue: Dr. Bhupen Hazarika Auditorium; IIT Guwahati	
Talk	Time	Title of Expert Lecture	Speaker
PL-01	10:00-10:50 Hrs	Recent advances in the synthesis of biobased chemicals and polymers: From aliphatics to aromatics	Yoshiharu Kimura, Kyoto Institute of Technology, Japan
10:50-11:10 Hrs High Tea/Group Photo Session			
PL-02	11:10-12:00 Hrs	Circular Economy: A Sustainable path forward for Bioplastics and Biocomposites Innovation	Amar K. Mohanty, University of Guelph; ON, Canada
PL-03	12:00-12:50 Hrs	Sustainable Polymers : Challenges and Opportunities	S. Sivaram , INSA Senior Scientist, IISER, Pune, India
KL-01	12:50 -13:20 Hrs	Sustainability of Polymers : A Reality Check in India	Vijay G. Habbu, Senior Vice President, Reliance Industries Ltd., India
13:20-14:15 Hrs Lunch			
Indo-Taiwan Bilateral Symposium Session I [Conference Hall 2]			
Inaugural Ceremony	14:15-14:25 Hrs	Opening Speech	Professor Gautam Biswas (President)
	14:25-14:35 Hrs	Opening Speech	Official representative from Taiwan
	14:35-14:50 Hrs	Progress of Indo-Taiwan cooperative project (Taiwan)	Ching Tsang Wang
	14:50-15:05 Hrs	Progress of Indo-Taiwan cooperative project (India)	Amaresh Dalal
	15:05-15:15 Hrs	Ceremony of signing MOU	
15:15-15:30 Hrs		Break	
KL-02	15:30-15:50 Hrs	Effect of calcination of Fe ₂ O ₃ on degradation performance of organic wastewater in a novel Bio-electro-Fenton Microbial Fuel Cell	Chen-Hao Wang, National Taiwan University of Science and Technology, Taipei, Taiwan
KL-03	15:50-16:10 Hrs	Experimental study on the emission of diesel engine with hydrogen syngas	Jer-Huan Jang, Ming Chi University of Technology, Taiwan
KL-04	16:10-16:30 Hrs	Potential study of electricity generation in an anodic anaerobic bacteria and cathodic microalgal microbial fuel cell	Chyi-How Lay, Feng Chia University, Taichung, Taiwan
KL-05	16:30-16:50 Hrs	Continuous Flow Process: A New Paradigm in Materials Syntheses	Anil Kumar, IIT Bombay, India
Polymer Composites [Conference Hall 1]			
KL-06	14:15-14:45 Hrs	Application based development of Poly Lactic acid Technologies	Ian K.W. Toh, Director, Natureworks, USA.

IL-01	14:45- 15:10 Hrs	Polyurethanes and their nanocomposites from Biobased Polyols: Efficient and environment friendly alternative	Anupama Kaushik Sharma, Panjab University, India
IL-02	15:10-15:35 Hrs	Anisotropic designer particles	Sampa Saha, IIT, Delhi, India
IL-03	15:35-16:00 Hrs	Properties Enhancement of Biocomposites	Utai Meekum, Suranaree University of Technology, Thailand
16:00-16:20 Hrs Tea & Networking Break			
Polymer Characterization I [Conference Hall 1]			
KL-07	16.20-16.50 Hrs	Design of Sustainable Packaging: some thoughts	Debkumar Chakrabarti, IIT Guwahati, India
KL-08	16.50-17.20 Hrs	Leading the Blueprint for Improved Sustainability in Plastics Through Industry Collaboration	Han Zhang, Dow Chemical International Pvt Ltd., Singapore.
KL-09	17.20-17.50 Hrs	EnviroESCA™ – The beginning of a new era	Felix Leyssner, SPECS, Germany
IL-04	17.50-18.15Hrs	Twin Drive RheoMicroscopy	Dharmesh Gala, Anton Paar, Austria.
IL-05	18.15-18.40 Hrs	Sustainable Polymer Processing Techniques	Manoj Bansal, Thermo Fisher, USA
Indo-Japan Bilateral Symposium Session I: Synthetic Biodegradable Polymers [Conference Hall 3]			
16:20-16:40 Hrs	INAUGURATION Address by- Professor Gautam Biswas and Prof. Ashok Misra		
KL-10	16:40-17:10 Hrs	Sustainable Materials in the Polymer Industry	Anil K. Bhowmick, IIT Kharagpur, India
KL-11	17:10-17:40 Hrs	DSC and WAXS Studies on the Effects of Silk Nanocrystals on Crystallization of Poly(L-Lactic Acid)	Shinichi Sakurai, KIT Japan
IL-06	17:40-18:05 Hrs	Poly(lactide) Suprastructures: Structural Reorganization of Stereocomplex Nanoparticles	Susheela B. Idage, NCL Pune, India.
IL-07	18:05-18:30 Hrs	Stereocomplexation of the segmented PLLA/PDLA blend melt-spun fibers	Masaki Yamamoto, KIT Japan
Polymers for Biomedical Applications I [Conference Hall 4]			
KL-12	16:20-16.50 Hrs	Sustainable Development of Controlled Drug Delivery and Implants using Biodegradable Polymers	Pralay Maiti, IIT BHU, India
IL-08	16.50-17.15 Hrs	Biomedical devices and implants at Biomedical Devices Lab in IIT Guwahati	S Kanagaraj, IIT Guwahati, India
IL-09	17.15-17.40 Hrs	Polysaccharide induced hybrid polymers for drug delivery application	Sarat K Swain, Veer Surendra Sai University of Technology, India
IL-10	17.40-18.05 Hrs	Biocompatible electrospun nanofiber scaffolds for antibacterial and sustained drug release	T. Umasankar Patro, Defence Institute of Advanced Technology, Pune, India
Student Presentations for Oral Awards I [Conference Hall 2]			
OP-01	16:50-17:05 Hrs	Recyclable Polylactic Acid grafted Cellulose Nanocrystal Films through Reactive Extrusion Approach	Prodyut Dhar, IIT Guwahati, India
OP-02	17:05-17:20 Hrs	Shape memory polymer nanocomposites for biomedical application	Arpan Biswas, IIT BHU, India

OP-03	17:20-17:35 Hrs	Lactic Acid Oligomer (OLLA) Grafted Gum Arabic Conjugates: A Bio-based Adhesive for Structural Applications	Neelima Tripathi, IIT Kanpur, India
OP-04	17:35-17:50 Hrs	Evaluation of silk fibroin/Xanthan biopolymeric blends using FTIR imaging and DTA analysis	Shailendra Singh Shera, IIT BHU, India
OP-05	17:50-18:05 Hrs	Aggregation behavior of non-ionic twinned amphiphiles and their application as biomedical nanocarriers	Abhishek K. Singh, University of Delhi, India
OP-06	18:05-18:20 Hrs	Rheological, Mechanical and Barrier Studies of Chitosan-graft-Lactic Acid Oligomer Reinforced Poly(Lactic Acid) Bionanocomposite Films	Akhilesh Kumar Pal, IIT Guwahati, India
OP-07	18:20-18:35 Hrs	Polymer brushes for tuning the spatial arrangement of nanoparticles in polymer nanocomposite films	Kishore Kumar Sriramoju, B.V. Raju Institute of Technology, Telangana, India
Poster Session (18:30 Hrs-19:30 Hrs)			
Cultural Program and Conference Dinner (19:30 Hrs-22:00 Hrs)			

Poster No: PPC 02, PPC 03, PPC 04, PPC 05, PPC 06A, BPS 07, BPS 08, BPS 09, BPS 10, BPS 11, BPS 12, BPS 12A, PNC 13, PNC 14, PNC 15, PNC 16, PNC 17, PNC 18, PNC 19, PNC 20, PNC 21, PNC 22, PNC 23, PNC 24, PNC 25, PNC 26, PNC 27A, SPT 30, SPT 31, SPT 32, SPT 34, SPT 37, SPT 37A, PHA 38, PHA 39, PHA 41, PHA 42, PHA 43, PHA 44, PHA 46, PHA 46A, PMS 47, PMS 48.

Day 2: January 09, 2018			
Talk	Time	Title of Expert Lecture	Speaker
PL-04	09:00-09:50 Hrs	What makes a polymer sustainable? Discussions around bioplastics, biobased, biodegradable-compostable, and the circularity model as metrics for sustainable polymers	Ramani Narayan, Michigan State University, USA
PL-05	09:50-10:40 Hrs	A bacterium that degrades and assimilates poly(ethylene terephthalate) and its enzymes involved in the degradation	Kohie Oda, KIT, Japan
10:40-11:00 Hrs	Tea Break Biopolymers [Conference Hall 2]		
KL-13	11:00-11:30 Hrs	Bacterial Cellulose based bioplastic hydrogel film : an exotic and competitive biomaterial for sustainable food packaging	Nabanita Saha, University Institute, Tomas Bata University in Zlin, Czech Republic
IL-11	11:30-11:55 Hrs	Characterization and Application of Cellulose Nano Crystal Incorporated Polylactic Acid Films for Low Temperature Preservation of Prawns (<i>Metapenaeus Dobsoni</i>)	Bindu J, ICAR- Central Institute of Fisheries Technology, Cochin, India
IL-12	11:55-12.20 Hrs	Amino Acid/Peptide Containing Alternating Copolymers	Priyadarsi De, Indian Institute of Science Education and Research Kolkata, India

IL -13	12:20-12.45 Hrs	Self-Healing and Durable Bio-mimicked Interfaces	Uttam Manna, IIT Guwahati, India
Polymers for Advanced Applications [Conference Hall 3]			
KL-14	11:00-11:30 Hrs	Sustainable polymeric nanocomposites for multifaceted advanced applications	Niranjan Karak, Tezpur University, India
IL-14	11:30-11:55 Hrs	Characterization of polymers -biopolymer using Small angle scattering techniques	Narayan Ch. Das, IIT Kharagpur, India
IL-15	11:55-12.20 Hrs	Depth-Resolved Structure Analysis of Polymer Thin Films by Grazing-Incidence Small Angle X-ray Scattering utilizing of Tender X-rays	Katsuhiro Yamamoto, Nagoya Institute of Technology Japan
IL-16	12:20-12.45 Hrs	Innovative Treatment Technology for Improving the Quality of Plastic Granules Produced from Recycled Waste Plastics	Deepali Jadia, Enviro Remediation & Research Laboratory (ERRL), Mumbai, India
Functional Polymers Interfaces [Conference Hall 4]			
KL-15	11:00-11:30 Hrs	Block Copolymers Functionalized Carbon Nanotubes and their Sensing Applications	Kailash C. Gupta, IIT Roorkee, India
IL-17	11:30-11:55 Hrs	Color Tolerances /Pass Fail Methodology and Appearance	Mr. Subhash Naik, Datacolor Solutions Pvt. Ltd. Mumbai, India
IL-18	11:55-12.20 Hrs	Glycopolymer Grafted Nanoparticles: A Step towards the Development of Vaccine	Tushar Jana, University of Hyderabad , India
IL-19	12:20-12.45 Hrs	Starch and cellulose based films for food packaging and drug delivery applications	R. Anandalakshmi, IIT Guwahati, Assam, India
13:00-14:15 Hrs Lunch			
Indo-Japan Bilateral Symposium Session II: [Conference Hall 2]			
KL-16	14:15-14:45 Hrs	Effect of water on the mechanical properties of DNA-derived films	Takashi Aoki, KIT Japan
KL-17	14:45- 15:15 Hrs	Sustainable Polyolefin Materials and its Technology: Directions for Designed Polyolefins for 3D Printing Technology	Virendra Kumar Gupta, Reliance Industries Limited, India.
KL-18	15:15-15:45 Hrs	CO ₂ Separation by Different Facilitated Transport Polymer Membranes from Binary and Ternary Gas Mixtures	Bishnupada Mandal, IIT Guwahati, India
IL-20	15:45-16:10 Hrs	Synthesis and characterization of functional polylactides consisting of L-lactyl and D-lactyl segment	Kazunari Masutani, KIT, Japan
Polymers for Biomedical Applications II [Conference Hall]			
KL-19	14:15-14:45 Hrs	Engineering of Biopolymers for Smart Healthcare	Bhuvanesh Gupta, IIT Delhi, India
KL-20	14:45- 15:15 Hrs	Polymer technologies for developing medical devices	Dr. Prashant Jha, Fellowship Director, Biodesign School, AIIMS, New Delhi, India

IL-21	15:15-15:40 Hrs	Fabrication of nanostructures through self-assembly of non-ionic amphiphiles for biomedical applications	Sunil K. Sharma, University of Delhi, India
IL-22	15:40-16:05 Hrs	Nano-bio interactions dependent optimization of polymeric nanoparticle design for PLK1 siRNA delivery	Neetu Singh, IIT Delhi, India
16:05-16:20 Hrs Tea Indo-Japan Bilateral Symposium Session III: [Conference Hall 2]			
KL-21	16:20-16:50 Hrs	Effect of the block length on the physical and structural properties of the multi-stereoblock poly(lactic-acid)s	Hideki Yamane, KIT Japan
KL-22	16:50-17:20 Hrs	Electrical functions expressed via orientation control by mechanical processing of cellulose derivatives	Yoshikuni Teramoto, Gifu university, Japan
IL-23	17:20-17:45 Hrs	Conversion of Paper Industry Fibrous Waste to Value added Sustainable Polymers	Umesh Bhardwaj, Bank Note Paper Mill India Pvt. Ltd., India
IL-24	17:45-18:10 Hrs	Dyeing Fabrics by Using Extracts from Mulberry Branch/Trunk	Hidekazu Yasunaga, KIT Japan
IL-25	18:10-18:35 Hrs	New Generation Polymer Composites	Kuruvilla Joseph, IIST, Trivendram, India.
Indo-Taiwan Bilateral Symposium Session II [Conference Hall 3]			
KL-23	16:20-16:50 Hrs	A microcosm energy applied in microbial fuel cell systems: the synergy of energy power generating and wastewater treatment for energy-nutrient-water nexus	Ching-Tsang Wang, National Chung Hsing University, Taiwan
KL-24	16:50-17:20 Hrs	Using carbon dioxide (CO ₂) as the sole driver for low-energy desalination and decontamination of impaired water sources.	Arup SenGupta, Lehigh University, USA.
IL-26	17:20-17:45 Hrs	Polymeric Organic Framework as Potential Toxicant Remover from Drinking water	Raja Shunmugam, IISER Kolkata, India
IL-27	17:45-18:10 Hrs	Microfluidics based fuel cells for low power applications	Ravi Kumar Arun, CSIR-CMERI, Durgapur, India
IL-28	18:10-18:35 Hrs	Water and salt dynamics in multilayer graphene oxide (GO) membrane: role of lateral sheet dimensions	Anki Reddy Katha, IIT Guwahati, India
Poster Session: 18:30-19:30 Hrs Dinner (19:30 Hrs-21:00 Hrs)			

Poster No: PPC 01, PPC 06, PNC 27, SPT 29, SPT 35, SPT 36, PHA 40, PHA 45, PMS 49, PMS 49A, PDD 50, PDD 51, PDD 53, PDD 54, PDD 55, PDD 55A, PDD 56, PDD 57, PDD 58, ECA 59, ECA 60, ECA 61, ECA 61A, PDW 62, PDW 63, PDW 64, PDW 65, PDW 66, OT 68, OT 69, OT 70, OT 71, OT 72, OT 73, OT 74, OT 75, OT 76, OT 77, OT 78, OT 79, OT 80, OT 81.

Day 3: January 10, 2018			
Talk	Time	Title of Expert Lecture	Speaker
PL-06	09:00-09:50 Hrs	Control of Network Microdomain Morphology of Block Copolymer Systems	Prof. Hirokazu Hasegawa, Ex Professor, Kyoto University, Japan
PL-07	09:50-10:40 Hrs	Low Carbon Advanced Materials and Energy	Mohini Sain, University of Toronto, Canada
10:40-11:00 Hrs		Tea Break [Conference Hall 2]	
KL-25	11:00-11:30 Hrs	Ionic Liquids in Polymer Synthesis; A Sustainable Process	Nikhil K. Singha, IIT Kharagpur, India
IL-29	11:30-11:55 Hrs	Thermo responsive Imidazolium Compounds: Synthesis and Applications in catalysis	Debasis Samanta, CLRI, India
IL-30	11:55-12.20 Hrs	Aerobic Composting of Bioplastics- A Laboratory Scale Study	Harsh Jadia, Enviro Remediation & Research Laboratory (ERRL), Mumbai, India
IL-31	12:20-12.45 Hrs	Learning from Nature: Producing synthetic biomimetic membrane with water transporter protein from salt tolerant mangrove trees	Prakash P. Kumar, National University of Singapore, Singapore
Indo-Taiwan Bilateral Symposium Session III [Conference Hall 3]			
KL-26	11:00-11:30 Hrs	Graphene Nanocomposites: creating a sustainable polymer framework	Sandip Ghosh, Tata Steel, India
KL-27	11:30-12:00 Hrs	Performance evaluation of an up flow microbial electrolysis coupled anaerobic digestion (ME-AD) reactor	Thangavel Sangeetha, National Taipei University of Technology, Taipei, Taiwan
IL-32	12:00-12:25 Hrs	Simulation studies on Microbial Fuel Cells	Saksham Sharma, IIT Guwahati, India
[Conference Hall 4]			
KL-28	11:00-11:30 Hrs	Biodegradable Star Shaped Poly(lactide)s for Biomedical Applications	Bhaskar B. Idage, NCL pune, India
IL-33	11:30-11:55 Hrs	Rotary Drum Composting of Vegetable Waste Followed by Biodegradation of PLA	Ajay Kalamdhad, IIT Guwahati, India
IL-34	11:55-12.20 Hrs	Laser Surface Bio-Coating of Functionally Graded TiO ₂ -HAp on Textured Ti Alloy for Enhancing Bioactivity and Cell Proliferation	Mamilla Ravi Sankar, IIT Guwahati, India
IL-35	12:20-12.45 Hrs	Polymers in stimuli responsive membranes	M K Purkait, IIT Guwahati, India
13:00-14:15 Hrs Lunch Student Presentations for Oral Awards II [Conference Hall 2]			
OP -08	14.15-14.30 Hrs	Synthesis of Non-ionic Bolaamphiphile and Study of its Self-assembly and Transport Behaviour for Drug Delivery Applications	Rashmi, University of Delhi, India

OP -09	14.30-14.45 Hrs	Synthesis of nanocomposite hydrogel using modified carboxymethyl cellulose and AuNPs: A transdermal drug carrier	Barun Mandal, IIT (ISM) Dhanbad, India
OP -10	14.45-15.00 Hrs	Paper based biofuel cell with photosynthetic microbial anode and air breathing enzymatic cathode	Sharbani Kaushik, IIT Guwahati, India
OP -11	15.00-15.15 Hrs	Studies on Silk-based Bionanocomposites	Rahul Patwa, IIT Guwahati, India
OP -12	15.15-15.30 Hrs	Gelatin crosslinked nanoparticles for controlled release of silibinin and lipoic acid	Plabita Gogoi, Tezpur University, India
OP -13	15.30-15.45 Hrs	Synthesis and Characterization of Cardanol based Polybenzoxazine-Epoxy Copolymer for Anti-Corrosive Coating Application	Deepak Patil, Institute of Chemical Technology, Mumbai, India
OP -14	15.45-16.00 Hrs	Sustainable Tough Waterborne Hyperbranched Polyester Nanocomposite using Carbon dot and its Nanohybrid through a Greener Approach for Multifaceted Applications	Deepshikha Hazarika, Tezpur University, India
Indo-Nepal Bilateral Symposium Session I [Conference Hall 3]			
14:15-14:45 Hrs:	Inaugural Speech: By Prof. Gautam Biswas, Director, IIT Guwahati		
KL-29	14:45- 15:15 Hrs	Biomass Based and Biodegradable Polymer Composites: Structure, Properties and Applications	Rameshwar Adhikari, Tribhuvan University, Nepal
KL -30	15:15-15:45 Hrs	Economy and Conversion Potential of Plastic Wastes of Kathmandu Valley into Fuel through Pyrolysis Process for Waste Management and Fuel Complements	Rabindra Prasad Dhakal, Nepal Academy of Science and Technology, Nepal
IL-36	15:45-16:10 Hrs	Biodegradable Copolyester Composites Reinforced by Wheat Stalked Micro crystalline Cellulose	Jyoti Giri, Tribhuvan University, Kathmandu, Nepal
Student Presentations for Oral Awards III [Conference Hall 2]			
OP -15	16.20-16.35 Hrs	Plastic waste management based on blending of different (Waste Electrical and electronic equipments) WEEE's and their characterization	Jaidev K, CIPET, Bhubaneswar, India
OP -16	16.35-16.50 Hrs	Optimization of waste cooking oil lubricant base stock synthesis via epoxidation using homogeneous acidic catalyst	Atanu Kumar Paul, IIT Guwahati, India
OP -17	16.50-17.05 Hrs	Sustainable-resource-based tough hyperbranched polyurethane nanocomposites with different carbon based metal nanohybrids: Perspective as multifunctional smart materials	Rituparna Duarah, Tezpur University, India
OP -18	17.05-17.20 Hrs	Development of Wood Polymer Nanocomposites Based on Modified Soybean Oil and Rosin Derivative	Zakaria Halim, Tezpur University, India

OP -19	17.20-17.35 Hrs	Biopolymer from Oily Bilge Water using Mixed Bacterial Culture	V. Uma, NIT Trichy, India
OP -20	17.35-17.50 Hrs	A Novel Approach in Development of Bio Based Foam from Biomass Waste	Anil Kumar, Institute of Wood Science and Technology, India
OP -21	17.50-18.05 Hrs	Rheological behaviour of composite propellant suspension containing aluminium nanoparticles	Rohit Lade, VNIT, Nagpur
OP -22	18.05-18.20 Hrs	Poly Lactic acid/ nano Hydroxyapatite based resorbable composites: Device to fix Podiatry fixations	Arbind Prasad, IIT Guwahati, India
OP-23	18.20-18.35 Hrs	Kinetics of thermal degradation of plastic waste and their conversion into liquid fuel by slow pyrolysis	Pallab Das, IIT Guwahati, India
OP-24	18:35-18:50 Hrs	Multifunctional Nano-Hydroxyapatite promoted Toughened High Molecular Weight Stereocomplex Poly (lactic acid) based Bionanocomposite	Arvind Gupta, IIT Guwahati, India
Indo-Nepal Bilateral Symposium Session II [Conference Hall 3]			
KL-31	16.15-16.45 Hrs	Ultrasound-Assisted Synthesis and Characterization of Polymethyl Methacrylate/Reduced Graphene Oxide Nanocomposites	V. S. Moholkar, IIT Guwahati, India
IL-37	16:45-17:05 Hrs	Nano-finishing of Bio-Implants using Polymer Rheological Abrasive Complex Suspensions	Mamilla Ravi Sankar, IIT Guwahati, India
IL -38	17:05-17:25 Hrs	Compatibilizer Effect on Morphological Thermal, Mechanical and Water Absorption Behaviour of Natural Fiber Based Polymer Composites	Netra Lal Bhandari, Tribhuvan University, Kirtipur, Kathmandu, Nepal
IL-39	17:25-17:45 Hrs	Correlative Characterisation of Imidazole 2-Carboxaldehyde Thiosemicarbazone Chitosan, Thiophene 2-Carboxaldehyde Thiosemicarbazone Chitosan and their Copper(II) Complexes	Hari Sharan Adhikari, Tribhuvan University, Kirtipur, Kathmandu, Nepal.
IL -40	17:45-18:05 Hrs	Removal of lead (II) Ions from Aqueous Solution by Hydroxyapatite Biosorbent Prepared from Ostrich Bone Waste	Komal Prasad Malla, Tribhuvan University, Kirtipur, Kathmandu, Nepal
IL -41	18:05-18:25 Hrs	Tuning Morphology and Mechanical Properties in Styrenic Block Copolymer Modified Nanostructured Epoxy Resin	Rajesh Pandit, Tribhuvan University, Kathmandu, Nepal
IL-42	18:25-18:45 Hrs	Flexible Conducting Polymer Nanocomposites using Multiwalled Carbon Nanotubes in Biodegradable Polymer Matrix	Kedar Nath Dhakal , Tribhuvan University, Kirtipur, Kathmandu, Nepal
Dinner (19:30 Hrs-21:00 Hrs)			

Day 4: January 11, 2018			
Talk	Time	Title of Expert Lecture	Speaker
PL-08	09:15-10:05 Hrs	Development and Global Applications of Hybrid Ion Exchange Nanotechnology (HIX-Nano): From Decontamination to Desalination	Arup K. SenGupta, Lehigh University, Bethlehem, USA
KL-32	10:05-10:35 Hrs	Biodegradable Polymeric Nanomaterials for Commodity, Engineering and Biomedical Applications	Vimal Katiyar, IIT Guwahati, India
10:35-11:00 Hrs		Tea Break [Conference Hall 2]	
KL-33	11:00-11:45 Hrs	Making of a Complete Professional: Some ideas and useful tips	R. P. Chhabra, IIT Kanpur, India
IL-43	11:45-12:10 Hrs	Comparison of promising pretreatment technologies for lignocellulosic biomass	Vaibhav V Goud, IIT Guwahati, India
IL-44	12:10-12:35 Hrs	Framework for Designing Sustainable Polymers: An Environmental Perspective	Reddithota J. Krupadam, National Environmental Engineering Research Institute, Nagpur, India
IL-45	12:35-13:00 Hrs	Columnar self-assembly of shape-anisotropic molecules and their applications in organic electronics	A. S. Achalkumar, IIT Guwahati, India
IL-46	13:00-13:25 Hrs	Designing with Bio-composite for Sustainable Development	Amarendra Kumar Das, IIT Guwahati, India
11.00 AM-1.00 PM Indo-Taiwan Bilateral Symposium Session IV Panel Discussion on Challenges and Opportunities on Microbial Fuel Cell Technologies [Conference Hall 3]			
13:30-14:30 Hrs Lunch			
02.30-3.30 PM Panel Discussion on Development of Biodegradable Plastics under Make in India Policy: Challenges and Opportunities [Conference Hall 3] 03.30-4.30 PM Valedictory Session			

PL: Plenary Lecture; KL: Keynote Lecture; IL: Invited Lecture; OP: Oral Presentation