

Second Symposium on Advances in Sustainable Polymers (January 21-22, 2015)

Day 0: January 20, 2015			
Registration (16:00 Hrs – 18:00 Hrs)			Venue: Conference Hall Lobby
Welcome Dinner (19:30 Hrs – 22:00 Hrs)			Venue: Hotel Radisson Blu NH-37, Guwahati
Day 1: January 21, 2015			
Inauguration of ASP-15 (09:00 Hrs - 09:40 Hrs)			Venue: Conference Hall 2; IIT Guwahati
High Tea			
Talk	Time	Title of Expert Lecture	Speaker
KL - 01	10:00 – 10:30 Hrs	Current Development of Biobased Polymers: Focusing on High-Performance Polylactides	Prof. Yoshiharu Kimura, Kyoto Institute of Technology, Japan
KL - 02	10:30 – 11:00 Hrs	Surface Engineering of Sustainable Filler Materials For Low Rolling Resistance Rubber Compounds	Prof. Sadhan C. Jana, University of Akron, USA
KL - 03	11:00 – 11:30 Hrs	Functionalized Native Nanocelluloses	Prof. Olli Ikkala, Aalto University, Finland
KL - 04	11:30 – 12:00 Hrs	Polylactide-Based Bionanocomposites: From Green Plastic to Biomedical Applications	Prof. Suprakas Sinha Ray, CSIR, South Africa
KL - 05	12:00 – 12:30 Hrs	Natural Fibre Composites – Concepts and Opportunities	Prof. Mikael Skrifvars, University of Borås, Sweden
KL - 06	12:30 – 13:00 Hrs	Biobased Coupling Agents – A Step Towards Sustainable Polymers	Prof. Dilpreet Bajwa, North Dakota State University, USA
Lunch			
KL - 07	13:45 – 14:15 Hrs	Polymer Therapeutics: Designer Polymer Scaffolds for Modulating Blood Coagulation and Iron Sequestration	Prof. Jayachandran N Kizhakkedathu, UBC, Canada
KL - 08	14:15 – 14:45 Hrs	Interior Dissection Approaches on Crystal Birefringence and Lamellae Assembly in Polymer Spherulite Growth	Prof. Eamor M. Woo, NCKU, Taiwan
KL - 09	14:45 – 15:15 Hrs	Evaluation of Bio-based Polyethylene and DDGS Fibers in Natural Fiber Filled Thermoplastic Composites	Prof. Sreekala Bajwa, North Dakota State University, USA
KL - 10	15:15 – 15.45 Hrs	Functionalizing Common Polymers with Self-Assembling Systems Through Physical Processes	Prof. Jean-Michel Guenet, ICS, France

Tea & Networking Break			
Invited Talks- Session 1; L1			Venue: Conference Hall 1
KL - 11	16:00 – 16:30 Hrs	Conjugated Polymers as Sustainable Materials?	Prof. Ullrich Scherf, University of Wuppertal, Germany
IL - 01	16:30 – 16:50 Hrs	Nanoparticles Embedded Polymer Hydrogels for Catalytic and Drug Delivery Applications	Dr. Manohar V. Badiger, NCL, India
IL - 02	16:50 – 17:10 Hrs	Thin Film Polyamide Composite Membrane- A Milestone in Separation Science	Dr. A. Bhattacharya, CSMCRI, India
IL - 03	17:10 – 17:30 Hrs	Biodegradable Polymeric Nanoparticles for Controlled Drug Delivery	Dr. Susheela B. Idage, NCL, India
IL - 04	17:30 – 17:50 Hrs	Synthesis of Novel Inclusion Supramolecular Polymers Composed of Amylose and Poly(L-lactide) by Vine-Twining Polymerization Using Primer-Guest Conjugates	Prof. Tomonari Tanaka, KIT, Japan
IL - 05	17:50 – 18:10 Hrs	Production of Microbial Lipids for Biodiesel Synthesis and Industrially Important Enzymes by Using Biomass of Municipal Solid Wastes	Prof. Md. Abul Kalam Azad, SUST, Bangladesh
Invited Talks- Session 2; L2			Venue: Conference Hall 2
KL - 12	16:00 – 16:30 Hrs	Environmentally Friendly Processes for Producing Sustainable Polymer Products	Prof. Vincent Gomes, The University of Sydney, Australia
IL - 06	16:30 – 16:50 Hrs	Biodegradable Star Polymers from Renewable Biomass Material	Dr. Bhaskar B. Idage, NCL, India
IL - 07	16:50 – 17:10 Hrs	Xyloglucan-Based Biopolymers and Nanocomposites	Dr. Joby Kochumalayil Jose, KTH Royal Inst. of Technology, Sweden
IL - 08	17:10 – 17:30 Hrs	Synthesis of Novel Biomaterials and Study of Their Biological Activities	Prof. Biswajit Ray, Banaras Hindu University, India
IL - 09	17:30 – 17:50 Hrs	Thermoresponsive Polymers for Smart Materials	Dr. Debasis Samanta, CSIR-CLRI, Chennai, India
IL - 10	17:50 – 18:10 Hrs	Synthesis of Stereo block Poly(Lactide)S Via Terminal Diels-Alder Reaction	Dr. Kazunari Masutani, KIT, Japan
Cultural Program, (18:30 Hrs – 20:00 Hrs)			Venue: Bhupen Hazarika Auditorium, IIT Guwahati
Banquet Dinner, (20:00 Hrs – 22:00 Hrs)			Venue: Conference Hall Lobby

Day 2: January 22, 2015			
Talk	Time	Title of Expert Lecture	Speaker
KL - 13	09:00 – 09:30 Hrs	Biocatalytically Synthesized Advanced Functional Materials	Prof. Ramaswamy Nagarajan, University of Massachusetts, USA
KL - 14	09:30 – 10:00 Hrs	Biomimetic Protein based Polymers: A family of unusually smart and sustainable polymer materials	Prof. Naba K. Dutta, University of South Australia, Australia
KL - 15	10:00 – 10:30 Hrs	Nanostructure Analyses of PLA/PEG Blends by X-Ray Scattering Technique Using Synchrotron Radiation	Prof. Shinichi Sakurai, KIT, Japan
KL - 16	10:30 – 11:00 Hrs	Simple Chemistry and Polymers Yield Complex Materials	Prof. Richard G. Weiss, Georgetown University, Washington, USA
Tea Break			
KL - 17	11:15 – 11:45 Hrs	SAXS Study on Ordered Bicontinuous Double Diamond Structures on the basis of Paracrystalline Theory and Self-Consistent Field Theory	Prof. Shigeru Okamoto, Nagoya Institute of Technology, Nagoya, Japan
KL - 18	11:45 – 12:15 Hrs	Functional Polymers and Block Copolymers. Polymers for Studying Material-Bio Interactions	Prof. Ishrat Khan, Director, Clark Atlanta University, USA
KL - 19	12:15 – 12:45 Hrs	Biomimetic Elastomeric Hydrogels for Biomedical Applications	Prof. Namita Roy Choudhury, University of South Australia, Australia
KL - 20	12:45 – 13:15 Hrs	Novel Dyestuffs Prepared from Biobased Materials for Safer Hair Dyeing	Prof. Hidekazu Yasunaga, KIT, Japan
Lunch and Poster Session			
Invited Talks- Session 3; L1			
KL - 21	14:00 – 14:30 Hrs	Synthesis of POSS-Based Materials and Their Application	Prof. Kensuke Naka, KIT, Japan
IL - 11	14:30 – 14:50 Hrs	Conjugated Polymers for Molecular Electronics	Prof. Satish A. Patil, Indian Institute of Science, Bangalore, India
IL - 12	14:50 – 15:10 Hrs	Development of Polymer Nanocomposite Scaffolds for Tissue Engineering	Prof. Sabu Thomas, Mahatma Gandhi University, Kottayam, India
IL - 13	15:10 – 15:30 Hrs	Bio-Based Industrially Important Hyperbranched Polymeric Nanocomposites as Sustainable Advanced Materials	Prof. Niranjana Karak, Tezpur University, India
IL - 14	15:30 – 15:50 Hrs	Polymer Supported Catalysts for Oxidation Reactions	Prof. K. C. Gupta, IIT Roorkee, India
IL - 15	15:50 – 16:10 Hrs	Bacterial Cellulose Based Nanobiocomposites for Biomedical Applications	Prof. Nabanita Saha, Tomas Bata University in Zlin, Czech Republic

IL - 16	16:10 – 16:30 Hrs	WAXS/SAXS/USAXS Investigation of Orientation Induced by Deformation in Semi-crystalline Polymers	Mr. Frédéric Bossan, R&D, Xenocs, Sassenage, France
IL - 17	16:30 – 16:50 Hrs	Chronoamperometric Proof of Low Potential Oxidation, and Evaluation of Diffusion and Migration Coefficients of Thiocholine in Polypyrrole Matrix	Prof. Panchanan Puzari, Tezpur University, India
Invited Talks- Session 4; L2			
KL - 22	14:00 – 14:30 Hrs	Poly(2-oxazoline)s with Fatty Acid Side Chains: More Than Just Renewable	Prof. Richard Hoogenboom, Ghent University, Belgium
KL - 23	14:30 – 15:00 Hrs	Sustainability Drive in Polymer Industry – An Overview	Dr. Surendra Kulkarni, Ex- Research Director & Site Head of SABIC Technology Center in Bangalore, India
IL - 18	15:00 – 15:20 Hrs	Polymer and Metal Nanoparticle Composite for Catalytic Chemical Locomotion	Prof. Arun Chattopadhyay, IIT Guwahati, India
IL - 19	15:20 – 15:40 Hrs	Chemoenzymatic Synthesis of Dendronized Amphiphilic Polymers for Biomedical Applications	Prof. Sunil K. Sharma, University of Delhi, India
IL - 20	15:40 – 16:00 Hrs	Biopolymers in Neural Tissue Engineering	Prof. Utpal Bora, IIT Guwahati, India
IL - 21	16:00 – 16:20 Hrs	Luminescence Study of Nanocomposite $Y_2O_3:Eu^{3+}$ Prepared By Polyol Method	Prof. L. Robindro Singh, North Eastern Hill University, Shillong, India
IL - 22	16:20 – 16:40 Hrs	Relevant Process Parameter for twin Screw Compounding	Mr. Manoj Bansal, Thermo Fisher Pvt Ltd., Mumbai, India
IL - 23	16:40 – 17:00 Hrs	Cobalt Metal Nanoparticle Embedded Biodegradable Polymer Based Magnetic Nonconductor Materials	Dr. Gauri Shankar Mukherjee, DRDO, New Delhi, India
Valedictory Function (17. 00 – 17.30 pm)			
Valedictory Dinner			

KL: Keynote Lecture

IL: Invited Lecture