

**IITG-KIT Joint Symposium
on
Biobased Materials**

January 20, 2015

Inauguration of ASP-15 (09:00 – 09:45 Hrs)

Venue: Conference Hall 2; IIT Guwahati

High Tea (09:45 - 10:00 Hrs)

Talk	Time	Title of Expert Lecture	Expert Speaker
KL - 01	10:00 - 10:30 Hrs	Nano-Order Structural Control of Polylactides and Their Copolymers	Prof. Yoshiharu Kimura, KIT, Japan
KL - 02	10:30 - 11:00 Hrs	Enzymatic Biofuel Cell for Micro Scale Electronic Devices	Prof. Pranab Goswami, IIT Guwahati, India
IL - 01	11:00 - 11:20 Hrs	Novel Dyestuffs Prepared from Biobased Materials for Safer Hair Dyeing	Prof. Hidekazu Yasunaga, KIT Japan
IL - 02	11:20 - 11:40 Hrs	Silk Biomaterials for Human Tissue Engineering	Prof. Biman B. Mandal, IIT Guwahati, India
IL - 03	11:40 - 12:00 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

Tea Break (12:00-12.15 Hrs)

IL - 04	12:15 - 12:35 Hrs	Industrial Waste Valorization into Potential Raw Feedstock for Biopolymer Production – Designed Biomass Approach	Prof. Senthilkumar S., IIT Guwahati, India
IL - 05	12:35 - 12:55 Hrs	Nanostructure Analyses of PLA/PEG Blends by X-Ray Scattering Technique Using Synchrotron Radiation	Prof. Shinichi Sakurai, KIT, Japan
IL - 06	12:55 - 13:15 Hrs	Conjugated Polymer Based Fluorescent Probes for Biosensors and Therapeutic Agents	Prof. Parameswar K. Iyer, IIT Guwahati, India

Lunch Break (13:15 - 14:00 Hrs)

IL - 07	14:00 - 14:20 Hrs	Synthesis of Stereo Block Poly(Lactide)S Via Terminal Diels-Alder Reaction	Dr. Kazunari Masutani, KIT, Japan
IL - 08	14:20 - 14:40 Hrs	Rheology and Dynamics of Concentrated Suspensions of Chain Like Particles	Prof. Anugrah Singh, IIT Guwahati, India
IL - 09	14:40 - 15:00 Hrs	Synthesis of POSS-based Materials and Their Application	Prof. Kensuke Naka, KIT, Japan
IL - 10	15:00 - 15:20 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
IL - 11	15:20 - 15:40 Hrs	Atomistic Simulation Investigation of Water and Salt Dynamics in Polymer - Composite Membranes	Prof. Anki Reddy, IIT Guwahati, India
IL - 12	15:40 - 16:00 Hrs	Thermal Degradation Kinetics of Biopolymers and Its Composites	Prof. Pankaj Tiwari, IIT Guwahati, India

Tea Break (16.00 - 16.20 Hrs)

IL - 13	16:20 - 16:40 Hrs	Patient Trial of Polymeric Based Passive Polycentric Knee Joint Used by the Transfemoral Amputee	Prof. S. Kanagaraj, IIT Guwahati, India
IL - 14	16:40 - 17:00 Hrs	Physical Features of Sonochemical Synthesis of Polymer Nanoparticles	Prof. Vijay S. Moholkar, IIT Guwahati, India
IL - 15	17:00 - 17:20 Hrs	Smart Coatings Materials for Frugal Innovation: A Development Using Molecular	Prof. Gaurav Manik, IIT Roorkee, India

		Dynamics Simulations	
IL - 16	17:20 - 17:40 Hrs	Foamed Biopolymers: A Step Ahead Towards Sustainability	Prof. Jutika Goswami, Assam Engineering College, Guwahati, India
IL - 17	17:40 - 18:00 Hrs	High Rate Composting of Biodegradable Wastes Using Rotary Drum	Prof. Ajay S. Kalamdhad, IIT Guwahati, India
IL - 18	18:00 - 18:20 Hrs	Crystallization of Diblock Copolymers: A Dynamic Monte Carlo Study	Prof. Ashok Kumar Dasmahapatra, IIT Guwahati, India
IL - 19	18:20 - 18:40 Hrs	Optimization of Emulsifier Production from by-product Glycerol and Jatropha oil	Prof. S. N. Naik, IIT Delhi
Dinner (Departure time at 18:45 pm from Conference Venue)			Venue: Hotel Radisson Blu, Guwahati