

International Symposium on Sustainable Polymers & National Symposium on Chemistry Education for Sustainable Engineering

August 23-25, 2019, IIT Guwahati, India

Programme Schedule

Day 1 - August 23, 2019			
Registration (08:30 - 09:00)			Venue: Conference Hall; IIT Guwahati
Inauguration of National Symposium on Chemistry Education for Sustainable Engineering (09:00 - 10:00)			Venue: Conference Hall; IIT Guwahati
Talk	Time (Hrs)	Title	Speaker
IL-01	10:00-11:00	Popular Science Talk Bionics and Bionic Engineering: Learning Science from Nature	Dr. Pradeep Kr. Srivastava, Former Deputy Director, Central Drug Research Institute, Lucknow
11:00 – 11:20		<i>High Tea</i>	
IL-02	11:20-11:50	Sustainable Science at the Nanoscale for Potential Technology	Prof. Arun Chattopadhyay, Indian Institute of Technology Guwahati
IL-03	11.50-12.20	Ligand Anchored 3-D {SiO ₂ } _n Networking for Sample Clean-up of Some Heavy and Toxic Elements Through Their Selective Separation and Preconcentration	Prof. Bhabatosh Mandal, Visva-Bharati University, West Bengal
IL-04	12:20-12:50	Chemistry Education for Sustainable Engineering	Prof. Okhil K. Medhi, Former Vice-Chancellor, Gauhati University & Royal Global University, Guwahati
IL-05	12:50-01.20	Designing biodegradable polymeric particles of various architecture and their applications in active delivery	Dr. Sampa Saha, Indian Institute of Technology Delhi
01:20-02:20		<i>Lunch</i>	
IL-06	02:20-02:50	Sequence Controlled Alternating Copolymers Via RAFT Polymerization	Prof. Priyadarsi De, IISER Kolkata
IL-07	02:50-03:20	Optically active polymers for Sustainable applications in Membrane Sciences	Dr. (Ms) Swapnali Hazarika, NEIST Jorhat

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OL-01	03:20-03:30	The eco-friendly synthesis of Spirooxindoles using Deep Eutectic Solvent	Prof. Okram Mukherjee Singh, Manipur University, Imphal
OL-02	03:30-03:40	Green Synthesis of Ag nanoparticle using Activated carbon as support and study of its activity for organic transformations	Dr. Parasa Hazarika, Jorhat Institute of Science and Technology, Jorhat
OL-03	03:40-03:50	Synthesis of Bromo Organics with Special Reference to Green Chemistry	Dr. Jayashree Nath, J. B. College, Jorhat
03:50-04:10		High Tea	
Inauguration of International Symposium on Sustainable Polymers Launch of SPSI North East Chapter and SPSI-MACRO-2020 (04:10-05:00)			Venue: Conference Hall; IIT Guwahati
IL-08	05:00-05:45	Janus Folded Chains	Prof. S. Ramakrishnan (President, SPSI) Indian Institute of Science, Bangalore
IL-09	05:45-06:30	Sustainability of Polymers: Future Directions	Prof. S. Sivaram, (Past President, SPSI) IISER Pune
IL-10	06:30-07:15	Supercoiled Supramolecular Polymers of Linear p-Conjugated Molecules	Dr. Ajayaghosh A., Director, CSIR-NIIST, Thiruvananthapuram, Kerala

Day 2 - August 24, 2019			
Talk	Time (Hrs)	Title	Speaker
IL-11	09:00-09:30	Microcellular Foam Processing of Polymers- A Sustainable Approach	Prof. A.K. Ghosh, Indian Institute of Technology Delhi
IL-12	09:30-10:00	Sustainable Development for Controlled Drug Delivery and Implants	Prof. Pralay Maiti, Indian Institute of Technology (BHU), Varanasi
IL-13	10:00-10:30	High Specific Strength Polymer Composites: Development, Characterization and Model Formulation	Dr. Gaurav Manik, Indian Institute of Technology Roorkee
IL-14	10:30-11:00	Sustainable hyperbranched polyurethane elastomeric nanocomposites with multifaceted attributes	Prof. Nirranjan Karak, Tezpur University
11:00-11:15		Tea Break	
IL-15	11:15-11:45	A New Class of Elastomers based on Renewable Bioresources	Prof. Nikhil K. Singha, Indian Institute of Technology Kharagpur

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IL-16	11:45-12:15	Stimuli-Responsive Poly(2-oxazoline) Copolymers and Their Self-Assembly	Prof. Tarun Kumar Mandal, Indian Association for the Cultivation of Science, Kolkata
IL-17	12:15-12:45	Polymers from vegetable oil through carbon dioxide insertion and catalytic property of carbon based nano materials	Prof. Swapan Kumar Dolui, Tezpur University
IL-18	12:45-01:15	An insight into sustainable cellulose derivatives based clay nanocomposites as biodegradable material for multifaceted applications: From packaging to biomedical	Prof. Dipankar Chattopadhyay, University of Calcutta
01:15-02:15		<i>Lunch</i>	
02:15-03:00		POSTER SESSION	
IL-19	03:00-03:20	Secondary Manufacturing of Sustainable Polymer-based Fiber-Reinforced Composites	Dr. Kishor Debnath, NIT Meghalaya
IL-20	03:20-03:40	Biopolymer Based Hydrogels as Template for Entrapment of either the 'Blue' or 'Red' form of Methylene Blue (MB) dye – Possibility of Using MB dye as Amine Sensors	Prof. Homendra Naorem, Manipur University
IL-21	03:40-04:00	Development of biochemically reduced graphene-oxide filled pi-conjugated polymer nanocomposites as sensors for volatile organic compounds	Dr. Surajit Konwer, Dibrugarh University
IL-22	04:00-04:20	Fruit and vegetable coating from waste bio-mass: A sustainable approach	Dr. Tridib Kumar Bhowmick, NIT Agartala
04:20-04:30		<i>Tea Break</i>	
OL-04	04:30-04:40	Biobased Polymeric Vapor Sensor: Using Custom Made Gas Casing	Gourhari Chakraborty, Indian Institute of Technology Guwahati
OL-05	04:40-04:50	Principles of Green Chemistry & Engineering for Sustainable Development	Dr. Bhaskar Jyoti Sarmah, Jorhat Institute of Science and Technology, Jorhat
OL-06	04:50-05:00	Enhanced Nucleation and Trans-crystallization in Poly(lactic acid) biocomposites induced by covalent modification of Gum Arabic	Dr. Purabi Bhagabati, Indian Institute of Technology Guwahati
OL-07	05:00-05:10	Chitosan/Magnetic Cellulose Nanofiber Based Edible Nano-Coating Facilitated By Bioactive Compounds for Kiwi fruit products	Tabli Ghosh, Indian Institute of Technology Guwahati
OL-08	05:10-05:20	Novel Fluorescent Probe for Detection of Iron	Moitreyee Bhattacharjee, Handique Girls College, Guwahati
OL-09	05:20-05:30	Enzymatic degradation behaviour of distinct PLLA/PDLA blends through thermostable enzymes	Naba Kr. Kalita, Indian Institute of Technology Guwahati
05:30-07:30		Science outreach workshop by Prof. Anil Kumar, Indian Institute of Technology Bombay	

Day 3 - August 25, 2019			
Talk	Time (Hrs)	Title	Speaker
IL-23	09:00-09:20	Green Composites: An Insight into Development, Mechanical Properties and Characterization	Dr. Sumit Bhowmik, NIT Silchar
IL-24	09:20-09:40	Nano Bio-polymer composites and its applications	Dr. Devasish Chowdhury, IASST, Guwahati
IL-25	09:40-10:00	Structural and Degradation Behavior of Compostable Composites Comprising Poly(butylene adipate-co-terephthalate) and Natural Fibers	Ms. Jyoti Giri, Tribhuvan University, Nepal
IL-26	10:00-10:20	Poly(meth) acrylate grafted Starch: Synthesis and Characterization	Dr. Dhruba J. Haloi, Bodoland University
OL-10	10:20-10:30	Poly(lactic acid)/nano-Hydroxyapatite composite: Sustainable materials for orthopedic fracture fixations	Arbind Prasad, Katihar Engineering College, Bihar
OL-11	10:30-10:40	Biosorption of a Basic Dye Rhodamine B on Indian Sandalwood (Santalum Album) Leaf Powder: A Case Study	Dr. Nayan Jyoti Khound, Digboi College, Digboi
OL-12	10:40-10:50	Green synthesis of nitrogen heterocycles	Dr. Mohit Lal Deb, GUIST, Gauhati University
10:50-11:00		Tea Break	
OL-13	11:00-11:10	Molecular Dynamics Simulation Study Under the Effect of External Electric Field and High Temperature on Conformation of the Protein β -Lactoglobulin	Dr. Gargi Borgohain, Cotton University, Guwahati
OL-14	11:10-11:20	Arjuna bark powder [ArBP], a natural adsorbent used in sorption of Cr[VI] from aqueous solution	Dr. Sumi Sarma, Gauhati University, Guwahati
OL-15	11:20-11:30	A study of drinking water quality in an around Tetelia, Jalukbari, Assam	Dr. Sanghita Dutta, Assam Science and Technology University
OL-16	11:30-11:40	Fabrication of interpenetrating polymer network-based nanocomposites of bio-based polyurethane and polystyrene with inherent surface hydrophobicity and shape memory attributes	Tuhin Ghosh, Tezpur University, Tezpur
OL-17	11:40-11:50	A review on the applicability of using biodiesel blends as fuel in a CI Engine	Kamaldeep Kalita, Assam Don Bosco University, Guwahati
OL-18	11:50-12:00	Carbon Nanomaterial-Vesicles Hybrid System for Biomedical Application	Jayanta Sarmah Boruah, IASST, Guwahati
OL-19	12:00-12:10	Mobility and Bioavailability of Cd, Co, Cu and Zn in surface runoff sediments in the urban catchment area of Guwahati	Upama Devi, Assam Engineering College, Guwahati

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OL-20	12:10-12:20	Acrylic Based Fluorescent Adhesive: Role of Fluorescence in Crafts and Anti-Counterfeiting Applications	Samiran Upadhyaya, IASST, Guwahati
OL-21	12:20-12:30	Development of Nano-Bio-Conjugate Film using Aloe vera to detect hazardous chemicals found in cosmetics	Ankita Deb, IASST, Guwahati
OL-22	12:30-12:40	Surface induced catalysis of Aza-Michael reaction using zeolite as the catalyst; an efficient green synthetic approach	Parineeta Das, NIT Nagaland
12:40-01:40	Valedictory Session		
02:45-04:00	CoE-SusPol Lab Visit		