

28-Nov-2024	DAY 1	
8.00-8.55 AM	Breakfast and Registration	
9.00-9.25 AM	Welcome and Inaugural	
9.30-11.00 AM	Session-1: Analytical & Applied Pyrolysis of Polymers & Microplastics	
	Session Chairs: Abhishek Sharma and Kalpit Shah	
9.30-9.50 AM	Keynote 1	Shogo Kumagai, Tohoku University, Japan Combined UV-irradiation and pyrolysis-GC/MS approach for evaluating the deterioration behavior of PV module encapsulant materials
9.50-9.55 AM	Questions & Answers	
9.55-10.10 AM	Invited 1	Atsushi Watanabe, Frontier Laboratories Application of F-Splitless Pyrolysis-GC/MS to the Analysis of Polymeric Materials
10.10-10.15 AM	Questions & Answers	
10.15-10.30 AM	Invited 2	Rajkumar Kasilingam, Indian Rubber Materials Research Institute, Maharashtra Commercial utilization of end of life tyres to produce high value Chemicals and fuel using integrated technology
10.30-10.35 AM	Questions & Answers	
10.35-10.50 AM	Invited 3	Young-Min Kim, Daegu University, South Korea New filtration system for microplastic analysis using Py-GC/MS and its application in environmental and food sample analysis
10.50-10.55 AM	Questions & Answers	
11.00-11.30 AM	Tea & Coffee	
11.30-1.00 PM	Session-2A (Parallel Session): Microwave Pyrolysis & Product Characterization	
	Session Chairs: Suchithra Thangalazhy Gopakumar and Ejaz Ahmad	
11.30-11.45 AM	Invited 4	Arshad Adam Salema, Monash University, Malaysia Microwave processing of biomass: Temperature measurement, energy consumption and syngas characteristics
11.45-11.50 AM	Questions & Answers	
11.50-12.05 PM	Invited 5	B. Rajasekhar Reddy, IIT-ISM Dhanbad Microwave-assisted Pyrolysis of Mixed Plastic Waste: Role of Interactions on liquid Yields and Quality
12.05-12.10 PM	Questions & Answers	
12.10-12.25 PM	Invited 6	Manoj Tripathi, Jaypee Institute of Information Technology, Noida RSM Optimization of process parameters in microwave pyrolysis of mustard (Brassica Nigra) husk (MSH) for the development of biomass-derived supercapacitor electrode
12.25-12.30 PM	Questions & Answers	
12.30-12.40 PM	Short Oral 1	Priyanka Katiyar, Shiv Nadar Institute of Eminence, Noida Reimagining Aroma Extraction Waste: Catalytic Pyrolysis for Hydrocarbon Production
12.40-12.42 PM	Questions & Answers	
12.42-12.52 PM	Short Oral 2	Miranti Budi Kusumawati, Tohoku University, Japan Co-pyrolysis of vacuum residue and bio-oil: A detailed liquid product characterization
12.52-12.54 PM	Questions & Answers	
12.54-1.04 PM	Short Oral 3	Mukul Agrawal, Shiv Nadar Institute of Eminence, Noida Comparative distribution and characterization of products from fast pyrolysis of cooked food waste, eucalyptus (wood), and bamboo (non-wood)
1.04-1.06 PM	Questions & Answers	
11.30-1.00 PM	Session-2B (Parallel session): Analytical Pyrolysis	
	Session Chairs: Prasenjit Mondal and Sankar Chakma	
11.30-11.45 AM	Invited 7	R. Vinu, IIT Madras Analytical Pyrolysis of common polymers using different pyrolysis systems: Effect of heating rate and timescale on product distribution

11.45-11.50 AM	Questions & Answers	
11.50-12.05 PM	Invited 8	Pratik N. Sheth, BITS-PILANI, Rajasthan Chemical analysis of Refuse Derived Fuel (RDF)
12.05-12.10 PM	Questions & Answers	
12.10-12.20 PM	Short Oral 4	Takaya Satoh, JEOL Ltd., Japan Development of a quantitative method for a trace amount of microplastics by pyrolysis GC/MS/MS
12.20-12.22 PM	Questions & Answers	
12.22-12.32 PM	Short Oral 5	Takao Fukudome, JEOL Ltd., Japan Rapid analysis of pyrolysis oil using blank tube-FI method and GC-EI/FI method
12.32-12.34 PM	Questions & Answers	
12.34-12.44 PM	Short Oral 6	Janejira Ratthiwal, Thammasat University, Thailand HDPE bottle cap waste upgrading through two-stage catalytic pyrolysis using Tandem Microreactor-GCMS
12.44-12.46 PM	Questions & Answers	
12.46-12.56 PM	Short Oral 7	Swati Sharma, IIT Mandi In-situ Transmission Electron Microscopy for understanding pyrolysis of polymers for device fabrication
12.56-12.58 PM	Questions & Answers	
1.00-2.00 PM	LUNCH	
2.00-4.00 PM	Session-3: Biochar and Advances in Analytical Instrumentation	
	Session Chairs: Arshad Salema and S. Murugavelh	
2.00-2.20 PM	Keynote 2	Suchithra Thangalazhy Gopakumar, University of Nottingham, Malaysia Effect of torrefaction of biomass for co-digestion of palm oil mill effluent
2.20-2.25 PM	Questions & Answers	
2.25-2.40 PM	Invited 9	Hendrix Yulis Setyawan, Universitas Brawijaya, Malang, Indonesia Experimental study of pyrolysis product utilisation: Phosphate-Doped Biochar as fertiliser
2.40-2.45 PM	Questions & Answers	
2.45-3.00 PM	Invited 10	Senthilmurugan Subbiah, IIT Guwahati Pyrolysis Reactor for Sustainable Biochar Production
3.00-3.05 PM	Questions & Answers	
3.05-3.25 PM	Sponsors Slot 1	Thermo Fisher Scientific India Pvt. Ltd. Sunil Kumar
3.25-3.45 PM	Sponsors Slot 2	JEOL, India
4.00-4.45 PM	Tea & Coffee	
4.45-7.00 PM	Session-4A (Parallel Session): Modelling in Biomass Pyrolysis (Kinetics, AI/ML models)	
	Session Chairs: Shogo Kumagai and Sanjeev Yadav	
4.45-5.00 PM	Invited 11	Himanshu Goyal, IIT Madras First-principles and ML modeling of biomass thermochemical conversion
5.00-5.05 PM	Questions & Answers	
5.05-5.20 PM	Invited 12	Anjireddy Bhavanam, NIT Jalandhar Co-pyrolysis of torrefied rice straw and coal: thermal behavior and kinetic analysis
5.20-5.25 PM	Questions & Answers	
5.25-5.40 PM	Invited 13	Chinta Sankar Rao, NIT Surathkal Leveraging Explainable AI for Predictive Modeling of Product Yields from Lignocellulosic Biomass Using Machine Learning

5.40-5.45 PM	Questions & Answers	
5.45-5.55 PM	Short Oral 8	Deepak Bhushan, IIT Roorkee Multi-parameter optimization and predictive modeling of pyrolysis of walnut shells using response surface methodology and machine learning algorithms
5.45-5.47 PM	Questions & Answers	
5.47-5.57 PM	Short Oral 9	Kartik S, UPL University of Sustainable Technology, Vadodara Catalytic Cracking of Plastic waste fractions: Kinetic and Thermodynamic parameter estimation through non-linear approach
5.57-6.00 PM	Questions & Answers	
6.00-6.10 PM	Short Oral 10	Zi Wei Ng, Monash University, Malaysia Exergy, CO ₂ Emission, and Techno-Economic Analysis of DME Production via EFB Biomass Gasification
6.10-6.12 PM	Questions & Answers	
6.12-6.22 PM	Short Oral 11	Hemant Balsora, UPL University of Sustainable Technology, Vadodara Artificial Neural Network Based Models for the Prediction of Pyrolysis Product Distribution Using Preliminary Analysis
6.22-6.24 PM	Questions & Answers	
6.24-6.34 PM	Short Oral 12	Pritam Kumar, IIT Madras Pyrolysis of Blends of Rice Husk with Bagasse and Wood Chips: Pyrolysate Composition Analysis and Distributed Activation Energy Modeling
6.34-6.36 PM	Questions & Answers	
6.36-6.46 PM	Short Oral 13	
6.46-6.48 PM	Questions & Answers	
4.45-7.00 PM	Session-4B (parallel session): Catalytic Pyrolysis and HDO	
	Session Chairs: Pankaj Tiwari and Pratik Seth	
4.45-5.00 PM	Invited 14	N. Sivamohan Reddy, IIT Roorkee Catalytic Effect on the Degradation Behavior of Metal loaded Biomass
5.00-5.05 PM	Questions & Answers	
5.05-5.20 PM	Invited 15	Anjana P A, NIT Warangal Heterogeneous catalysts in Pyrolysis reaction
5.20-5.25 pm	Questions & Answers	
5.25-5.40 PM	Invited 16	Samuel L. Rokhum, NIT Silchar Development of superhydrophobic biochar catalyst for biodiesel production
5.40-5.45 PM	Questions & Answers	
5.45-5.55 PM	Short Oral 14	Saimatun Nisa, IIT Jammu Catalytic and non-catalytic pyrolysis of walnut shell waste
5.55-5.57 PM	Questions & Answers	
5.57-6.07 PM	Short Oral 15	Santoshnambi Yadav, IIT Kharagpur Bio-oil production from lipid-rich microalgal biomass grown in open raceway system: An analytical Py-GCMS study
6.07-6.09 PM	Questions & Answers	
6.09-6.19 PM	Short Oral 16	Prabu Marimuthu, IIT Madras Synergistic Catalytic Insights: Noble Metals supported on Ni-based Perovskite Catalysts for Enhanced Hydrodeoxygenation of Guaiacol
6.19-6.21 PM	Questions & Answers	
6.21-6.31 PM	Short Oral 17	Pikesh Kumar, IIT Guwahati Conversion of lignocellulosic biomass to 5-HMF over bifunctional metal-loaded biochar catalyst with biphasic solvent

6.31-6.33 PM	Questions & Answers	
6.33-6.43 PM	Short Oral 18	Janaki Komandur, IIT Guwahati Catalytic Hydrodeoxygenation of bio-oil produced from biomass and plastic waste
6.43-6.45 PM	Questions & Answers	
6.45-6.55 PM	Short Oral 19	Munmi Bhattacharyya, IIT Guwahati One-pot green synthesis of NiO/MgO nano-composite catalyst for the thermo-catalytic devolatilization studies of sawdust pyrolysis and its comparative analysis with industrial zeolite and dolomite bulk catalysts
6.55-6.57 PM	Questions & Answers	
7.00-8.00 PM	Posters and Networking	
8 PM onwards	Dinner	