

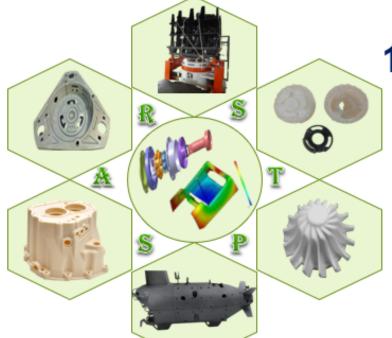




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13th International e-Conference on

Advancements in Polymeric Materials (APM-2022)

Probing Innovative & Sustainable Product
Design and Manufacturing
(March 08-12, 2022)

PROGRAMME SCHEDULE

PROGRAMME SCHEDULE APM 2022 @ March 08-12, 2022

DAY 1 (March 8, 2022) Session Chairperson: Dr. P. S. G. Krishnan, Principal Director, CIPET Prof (Dr). Geoffrey Mitchell, Institute Polytechnic of Leiria, Marinha Grande, Portugal PLENARY LECTURE - I 09:15 - 10:003D Printing a Novel Route to Fabricating New Polymeric Materials with Tailored Properties **Prof. Mohammad Qasaimeh,** New York University, Abu Dhabi 10:00 - 10.40**KEYNOTE LECTURE - I** Integrated 3D Printed Microfluidic Probes for Cell Separation, Biopsying, and Beyond Welcome Address: Prof. (Dr.) Shishir Sinha, Director General, CIPET/Convener, APM 2022. Special Address: Smt. Arti Ahuja, I.A.S, Secretary (C&PC), DCPC, MoC & F. Guest of Honour: Shri. Bhagwanth Khuba, Hon'ble Minister of State, C&F. **APM-2022 Inauguration Ceremony** 11:00 - 11:40 Release of e-proceedings: Hon'ble Union Minister of C&F and Hon'ble Minister of State (C&F). Chief Guest Address: Dr. Mansukh Mandaviya, Hon'ble Minister of C&F. Vote of Thanks: Shri Kashi Nath Jha, I.P. & T.A.F.S, Joint Secretary (PC), DCPC, MoC & F. Co- Chairperson: Dr. Syed Amanulla, Chief Manager (Technical), CIPET. Dr. Neetu Singh, Indian Institute of Technology Delhi **INVITED LECTURE - I** 12:05 -12:25 Engineering New Materials for Healthcare: A Chemist's Perspective Dr. Subrata Chattopadhyay, Indian Institute of Technology Patna 12:25-12:45 **INVITED LECTURE - II** Multifunctional Nearly Monodisperse Biocompatible Polyethylene glycol Periodic Co-polymers via Aza-Michael Reactions 1. APM(O) -37 Dr. P. Pazhanisamy Synthesis and Characterization of poly (N-cyclohexylacrylamide-co-acrylamide/HEA) Hydrogels 2. APM(O) -15 Mr. Nikhil Kumar Multi-Stimuli Responsive Biphasic Dual Network Hydrogel for Drug Delivery 3. APM(O)-44 Mr. Gurumoorthi Ramar **CONTRIBUTORY LECTURE - I** 12:50 - 13:50Design and Development of TPMS Scaffold for Bone Tissue Engineering Applications 4. APM(O)-50 Ms. Ipsita Pattanayak Synthesis and Characterization of Natural Hydroxyapatite Extracted from Caprine Bones 5. APM (O) -23 Mr. Shyama Sasikumar In vitro Tissue Microenvironment-based Drug Testing Platform to Predict Drug-Induced Liver Injury

LUNCH BREAK

13:50 - 14:30

Session Chairperson: Dr. B. Srinivasulu, Principal Director, CIPET.			
14:30 – 15:15	PLENARY LECTURE - II	Prof. Bhuvanesh Gupta, Indian Institute of Technology Delhi Functional Biomaterials by Plasma Grafting of Polymers	
15:15 – 15:45	KEYNOTE LECTURE - II	Prof. Josemon Jacob, Indian Institute of Technology Delhi, Polymeric Gels for Heavy Metal Ion Removal and Desalination	
15.45 – 16.15	KEYNOTE LECTURE - III	Dr. Harish Kumar, Central University of Haryana, Metal oxide Nanoparticles Decorated with Conducting Polymer-Based Biomaterials for Advanced Functional Applications	
16.15 – 16.45	KEYNOTE LECTURE - IV	Dr. Gajendra Prasad Singh, Central University of Jharkhand, Ranchi Hybrid nanocomposite Photocatalysts for the Photocatalytic Hydrogen Evolution from Water-splitting	
16:50 – 17:10	INVITED LECTURE - III	Dr. Garima Agrawal, IIT Mandi Stimuli Responsive Polymer based Materials for Controlled Drug Delivery	
17:10 – 17:30	INVITED LECTURE - IV	Dr. Sanjeev Kumar Mahto, School of Biomedical Engineering, IIT (BHU) Fabrication and Characterization of Soy Protein Isolate Based Scaffolds for Skin Tissue Engineering Applications	
Co-Chairperson: Dr. Syed Amanulla, Chief Manager (Technical), CIPET.			
17:35 – 18:25	CONTRIBUTION LECTURE -II	 APM(O) -06 Dr. Neetha John Studies on the Effect of ZnOModifications on PLA Membranes APM(O)-42 Mr. D. Amrishraj Artificial Neural Network (ANN) based predictive Modeling of Tribological behavior of Poly Propylene (PP) composites reinforced with nano zirconia and tungsten di sulphide (WS₂) APM(O) -07 Mr. Baban Dey Sulfonic Acid Functionalized Graphene Oxide Reinforced Polyethersulfone Nanocomposites With Enhanced Mechanical And Electrical Properties. APM(O) -21 Mr. Srikanth Bhaskar Billa Two Component Polyurethane Urea System Exhibits Quadruple Shape Memory and Intrinsic Self- Healing Characteristics APM(O) -24 Mr. Krishna Kant Mourya High Temperature Self-Healing B4C incorporated Carbon B-Phenolic and Mo- Phenolic Ablative Composite 	

DAY 2 (March 9, 2022)			
	Session Chairperson: Dr. S. N. Yadav, Principal Director, CIPET.		
09:00-09:45	PLENARY LECTURE - I	Prof. Dr. Ashok Vaseashta, NJCU, USA Hierarchical Integration of Additive Manufacturing Process and Electrospinning for Rapid Prototyping	
09:45-10:30	PLENARY LECTURE - II	Prof.(Dr.) Sabu Thomas, Mahatma Gandhi University, Kerala Circular Economy: New opportunities in Sustainable Nanomaterials and Polymer Bio-Nanocomposites	
10:30 – 11:00	KEYNOTE LECTURE - I	Dr. Tse Nga Tina Ng, University of California, San Diego, USA Polymeric Devices for Infrared Upconversion Imagers and Energy Storage	
11:00-11:30	KEYNOTE LECTURE - II	Prof. Dr. Kantesh Balani, Indian Institute of Technology Kanpur, Adhesion Mechanics of Bacteria on Polymeric & other Biosurfaces	
11:40-12:00	INVITED LECTURE - I	Dr. Satyaprasad P Senanayak, National Institute of Science Education and Research (NISER), Bhubaneswar Solution Processed Semiconductors for Futuristic Optoelectronic Devices	
12:00-12:20	INVITED LECTURE - II	Dr. T. Eshwar, CSIR-Central Electronics Engineering Research Institute, Pilani, Elastomer based flexible Capacitive Pressure Sensors for realization of electronic skin (E-skin)	
12:20–12:40	INVITED LECTURE - III	Dr. Aashish Ray, S.S. Tegnoor Degree College, Karnataka, India Development of highly sensitive PEDOT-PSS/AuNP nanocomposite-based sensor towards room temperature detection of greenhouse methane gas	
	Co-Chairperson: Dr. Aashish Ray, S.S. Tegnoor Degree College, Karnataka, India		
12:40 – 13:30	CONTRIBUTORY LECTURE - I	 APM(O)-56 Ms. Nilimapriyadarsini Swain Nanosheet Structured 3D Porous Mn₃P/Ni as an Efficient Electrode Material for Energy Storage Application APM(O) -32 Mr. Prasenjit Bhunia α-Fe₂O₃Flowers on Graphene Surfaces with Efficient Visible-Light-Activated Photo-electrochemical Glucose Detection APM(O) -36 Mr. Ovais Ali Aggregation Behavior of Polyethylene Glycol in the Presence of Electrolytes and Non-electrolytes APM(O) - 47 Mr. S. Ragul Investigation of Organic Ferroelectric Polymer Doping of Graphene using Kelvin Probe Force Microscopy APM(O)-48 Mr. R. Karthikeyan Studies on thermo-mechanical and dielectric properties of the filler based polymer composite materials for wind turbine application. 	
13:30 – 14:00		LUNCH BREAK	

	Session Chairperson: Dr. Smita Mohanty, Principal Scientist, CIPET.		
14:00 – 14:45	PLENARY LECTURE - III	Dr. S. N. Jaisankar, CSIR-CLRI, Chennai Synthesis, Viscoelastic and Thermal Properties of Single-Walled Carbon Nanotubes Based Polyurethane	
14:45 –15:15	KEYNOTE LECTURE – III	Prof. Dr. Rajendra Kumar Goyal, Malaviya National Institute of Technology Jaipur, Polymer/GNP Nanocomposites and Their Challenges	
15:15 –15:45	KEYNOTE LECTURE – IV	Dr. Neeladri Das, Indian Institute of Technology Patna, Development of Porous Polymers to Capture Environmental Pollutants	
15:50 – 16:10	INVITED LECTURE - IV	Dr. Yadagiri Naik Banothu, DRDO, DYSL-SM, Hyderabad Electroactive Shape Memory Polyurethanes (eSMPUs) based on Optimized Graphene Nanoplatelet (GNP) Composites	
Co-Chairperson: Dr. Aashish Ray, S.S. Tegnoor Degree College, Karnataka, India			
16:30 – 17:20	CONTRIBUTORY LECTURE -II	 APM(O)-45 Mr. Selvaraj Nagarajan Re-investigation of Polymeric Ring-banded Spherulites APM(O) -30 Mr. Amresh Kumar Singh TPOs Composite Tensile Stress-Strain Behaviour Analysis For Automotive Application APM(O) -31 Mr. Vuba Kiran Kumar Enhanced Thermo-Mechanical And Thermal Properties of MWCNT/MAgPP/PP Co-polymer Nanocomposites Prepared by Extrusion APM(O) -41 Ms. V Binaz Experimental Investigation on Machinability of SustainableBasalt-PLA Composites APM(O) -33 Mr. Sandeep Gairola Thermal Stability and Mechanical Behavior of Date Palm Leaves Reinforced Laminated Polypropylene Composites 	
Co-Session Chairpersons: Dr. Lakshmi Unnikrishnan, Dr. T.Senthil, Dr. R. Ananthakumar, CIPET			
16:30 – 18:00	Flash Poster Presentation Parallel Session – Hall-2	APM (P) -08, APM (P) -17, APM (P) -22, APM (P) -23, APM (P) -27, APM (P) -28, APM (P) -29, APM (P) -32, APM (P) -34, APM (P) -37, APM (P) -42, APM (P) -44, APM (P) -49, APM (P) -52, APM (P) -53, APM (P) -54, APM (P) -55	
Day End			

Day End

	DAY 3 (March 10, 2022)		
Session Chairperson: Dr. Abdul Kader, Principal Scientist, CIPET.			
09:00 -09:45	PLENARY LECTURE - I	Prof. Dr Ramani Narayan , University Distinguished Professor, Michigan Biotechnology Institute, USA Re-designing carbon-carbon backbone (hydrocarbon) plastics for biodegradability-compostability	
09:45 – 10:15	KEYNOTE LECTURE - I	Dr. Akhilesh K Gaharwar, Texas A&M University, United States Bioengineering Living Systems: Designing Biomaterials for In Situ Tissue Regeneration	
10:15 - 10:45	KEYNOTE LECTURE - II	Dr. Y. Ravi Kumar, National Institute of Technology Warangal Design and Manufacturing of Bio-medical Devices using Additive Manufacturing Technology	
10:50 – 11:10	INVITED LECTURE – I	Dr. Amit Jaiswal , Indian Institute of Technology Mandi Photothermally Active Nanomaterials for Biomedical Applications	
11:10 – 11:30	INVITED LECTURE – II	Dr. V. Ravi Babu, CSIR-CECRI, Tamilnadu 3D Bioprinted PLA/Mesoporous bioactive glass based Hierarchical Biomimetic composite scaffold with Rapid Apatite crystallization Ability and In-vitro cytocompatibility: A promising Niche For Bone Tissue Engineering	
11:30 - 11:50	INVITED LECTURE – III	Dr. G.T. Senthil Andavan, SRM, Chennai Biodegradable PU films of polycaprolactone polyols and Sustainable nanoparticles of castor oil with hybrid inorganic-organic Schiff bases	
	Co-Chairperson: Prof. Dr. Rajendra Kumar Goyal, Professor and Head, Malaviya National Institute of Technology.		
11:50 – 12:50	CONTRIBUTORY LECTURE -I	 APM(O)-52 Ms. Srushti Lekurwale Investigation of sintering parameters on fine printability of 3D printlets using Selective Laser Sintering assisted advanced Additive Manufacturing Technology APM(O) -25-Mr. Arun Kumar Bambam Effect of process parameter on tensile strength of AlSi10Mg parts fabricated through Selective Laser Melting APM(O) -38 Mr. Alex Y Advancement of Additive Manufacturing Technology in Development of Personalized Knee and Elbow Implants APM(O)-53 Dr. Aswini Kumar Mohapatra Development of Green Composite Membrane: A Critical Study of Cellulose Acetate & Corn Cob Composite APM(O) -12 Mr Debabrata Ganguly In-situ modification of filler-filler network improvising the thermal conductivity and dispersion in hybrid elastomeric composite APM(O) -34 Ms. Priyanka Soni Thermal stability and kinetic analysis of chemically treated hemp fiber reinforced epoxy composites 	
12:50 – 14:00		LUNCH BREAK	

	Session (Chairperson: Dr. P.S.G. Krishnan, Principal Director, CIPET.
14:00 – 14:45	PLENARY LECTURE – II	Prof. Krishnan Kanny, Durban University of Technology, South Africa Foam Based Polymer Composites for Structural Application
14:50 – 15:20	KEYNOTE LECTURE – III	Dr. Manish Gupta, Motilal Nehru National Institute of Technology, Allahabad Prioritizing enablers in terms of Industry 4.0 technologies for Lean Manufacturing implementation through Fuzzy- AHP
15:20 – 15:50	KEYNOTE LECTURE – IV	Dr. Rajesh Kumar Sharma, National Institute of Technology Hamirpur, Impact of Surface Modifications on the Performance of Tribological Pairs
15:50 – 16:10	INVITED LECTURE – III	Dr. Abhishek Tiwari, Indian Institute of Technology Ropar Effect of Material Inhomogeneity on Crack Driving Force Under Creep Deformation
16:10 – 16:30	INVITED LECTURE – IV	Dr. Arun Kumar Padhy, Central University of Jharkhand, Ranchi Organic Molecules to Materials: Small Molecules Doing Wonders
Co-Chairperson: Dr. V. Ravi Babu, Scientist, CSIR-CECRI.		
16:30 – 17:30	CONTRIBUTORY LECTURE –II	 APM(O)-54 Mr. Ganesh G. Garkhedkar Elimination Of Flow Marks In Injection Molded Product By Polymeric Flow Optimisation APM(O) -13 Mr MohitGoswami – Mixed-Mode and Mode-I fracture analysis of elastomeric composites using damage model assisted finite element analysis APM(O) -16 Mr Abhay Kumar Analyzing Geometrical Imperfections on Tire Tread Compound and Mechanical Validation Through Finite Element Analysis APM(O) -29 Mr R.V Sadhu Sundar Singh Prediction of process parameters for friction stir welding of cast Aluminium alloy A319 by Neural network technique APM(O) -26 Mr. V Suganth Three Dimensional modelling of moisture diffusion in fiber reinforced composites APM(O)-46 Mr V Ganesh Ram Design and Analysis of Rear Brake Shoe
Co-Session Chairpersons: Dr. Lakshmi Unnikrishnan, Dr. T.Senthil, Dr. R. Ananthakumar, CIPET		
16:30 – 18:00	Flash Poster Presentation Parallel Session – Hall-2	APM (P) -04, APM (P) -09, APM (P) -10, APM (P) -11, APM (P) -12, APM (P) -13, APM (P) -14, APM (P) -15, APM (P) -24, APM (P) -30, APM (P) -31, APM (P) -33, APM (P) -38, APM (P) -43, APM (P) -46, APM (P) -47, APM (P) -51, APM (P) -57
		Day End

	DAY 4 (March 11, 2022)		
	Session Chairperson: Dr. S. N. Jaisankar, Chief Scientist, CSIR- CLRI, Chennai.		
	Co-Session Chairperson	& : Shri.Varun Singh Poonia, Deputy Industrial Adviser, DCPC, Govt. of India.	
09:00 -09:45	PLENARY LECTURE – I	Prof. Mohini Sain, University of Toronto, Canada Present and future of Multifunctional Carbon Composite in Energy Storage	
09:45 – 10:15	KEYNOTE LECTURE – I	Dr Y. Shrike Zhang, Harvard-MIT Health Science and Technology, Cambridge, Massachusetts, United States 3D Tissue Bioprinting	
10:15 – 10:45	KEYNOTE LECTURE – II	Dr. S. Senthilvelan, Indian Institute of Technology Guwahati, Challenges: Polymer Product Design and Manufacturing and Performance	
10.45 – 11.15	KEYNOTE LECTURE – III	Prof.(Dr.) Santanu Chattopadhyay, IIT Kharagpur CFD Modeling for the Prediction of Structural Deformation/Instability in the Polymeric Extrudate Profile due to Die Swell using 3D models	
11:20 – 11:40	INVITED LECTURE – I	Dr Sumit Sharma, Dr. B. R. Ambedkar National Institute of Technology Jalandhar Molecular Dynamics Study of Interfacial Properties of Carbon Nanotube Reinforced Polypropylene Composites	
11:40 – 12:00	INVITED LECTURE – II	Prof. V.R. Gaval, Institute of Chemical Technology-Mumbai Advancement in warpage predictions accuracy for glass filled thermoplastics using integrative simulation approach	
	Co-Cha	irperson: Prof.(Dr.) Santanu Chattopadhyay, IIT Kharagpur	
12:00- 13:10	CONTRIBUTORY LECTURE -I	 APM (O) -01 Mr Sujit Sharma Investigating the structural deformation of the extrudate during the processing and simulation of an extrusion die for polymeric products APM (O) -09 Mr Abhijit Bera An Early-Stage Modification of Natural Rubber with Bio-based Integrant: A Green Obtention to enhance the Efficacy of Silica Dispersion in Tyre Tread Compound APM(O) -10 Mr Saikat Das Physico-mechanical Properties of NXT Silane Grafted Styrene Butadiene Rubber/Silica Composites APM(O) -14 Ms Sipra Khanra Reactive Compatibilization of the Fluoroelastomer and Silicone Rubber Blend with Fluoroelastomer-g-Acrylamide APM (O) -05 Mr Asit Baran Bhattacharya Novel thermoplastic vulcanizatenano-composites (TPVNs) based on ultra-high molecular weight EPDM: Development, characterizations and applications APM(O) -18 Mr Praveen Sreenivasan Study of processing and sound attenuation characteristics of hollow glass balloon filled rubber composite APM(O)-49 Mr Pijush K Mandal An Experimental Study on Engineering Properties of LCP-Vectra A 950/PP composites 	

13:10 - 14:00		LUNCH BREAK	
	Session Chairperson: Dr. Syed Amanulla, Chief Manager (Technical), CIPET		
14:00 – 14:45	PLENARY LECTURE - II	Prof. Dr. G. C. Mohan Kumar, National Institute of Technology Karnataka, Surathkal, PVA-PVP Based Hydrogel Composites for Tissue Engineering Applications	
14:45– 15:15	KEYNOTE LECTURE – IV	DrIng. Can Dincer, University of Freiburg, Freiburg, Germany CRISPR-Powered Microfluidic Multiplexed Nucleic Acid Testing	
15:15– 15:45	KEYNOTE LECTURE – V	Dr. Abhijit Chatterjee, Dassault Systems Science Aware Digital Platform To Design Next Generation Material	
15:50 – 16:10	INVITED LECTURE – III	Dr. Sujin B Babu, IIT Delhi Modelling One Hinge Artificial Swimmer in a Newtonian Fluid for Drug Delivery Application	
16:10 – 16:30	INVITED LECTURE – IV	Dr. Balasubramanian Paramasivan , National Institute of Technology Rourkela Use of Kombucha Bacterial Cellulose as a Packaging Materials	
	Co-Cha	nirperson: Prof.(Dr.) Santanu Chattopadhyay, IIT Kharagpur	
16:30 –17:30	CONTRIBUTORY LECTURE –II	 APM (O) -17 Dr. Rakesh Kumar Fabrication and Mechanical Properties of Glass Fabric Based Sandwich Panels with Acid Catalysed Furfuryl Alcohol as the Binder APM(O) -35 Mr. Aditi Mahajan Biodegradable polymer selection for food packaging applications through multi-criteria decision making approach APM(O) -27 Ms. Kajal Mishra Fabrication and Characterization of Moringa Oleifera Seed Filler as Novel Reinforcement in Epoxy Composites: Barrier and Interfacial Compatibilities APM(O) -02 Mr .G Jeevi Interlaminar shear behaviour of E-glass/Basalt reinforced vinyl ester hybrid composites enhanced with silane coupling agent APM(O)-40 Mr. Karri Santhosh Kumar Comparative assessment of machinability of woven jute and glass fiber reinforced epoxy composites 	
Session Chairpersons: Dr. Lakshmi Unnikrishnan, Dr. T.Senthil, Dr. R. Ananthakumar, CIPET			
16:30 – 18:00	Flash Poster Presentation Parallel Session – Hall-2	APM (P) -01, APM (P) -02, APM (P) -05, APM (P) -06, APM (P) -16, APM (P) -18, APM (P) -20, APM (P) -21, APM (P) -25, APM (P) -26, APM (P) -35, APM (P) -36, APM (P) -40, APM (P) -41, APM (P) -45, APM (P) -48, APM (P) -50, APM (P) -58	
		Day End	

DAY 5 (March 12, 2022)		
Session Chairperson: Dr. Sandesh Kumar Jain, Principal Director, CIPET.		
09:00 -09:45	PLENARY LECTURE - I	Dr. Manjusri Misra, University of Guelph, Canada Plastic Waste Challenges to Sustainable Materials: A Global Circular Economy Approach
09:45 – 10:15	KEYNOTE LECTURE - I	Prof. Dr. Susanta Banerjee, Indian Institute of Technology Kharagpur The Recent Development on Phosphorus and Pyridine Containing Sulfonated Polytriazoles: Proton Exchange Membrane Properties
10:15 – 10.45	KEYNOTE LECTURE - II	Dr. S. Anandhan, National Institute of Technology Karnataka, India. PVDF Nanocomposite-based Electrospun Fabrics for Various Applications
10:50- 11:10	INVITED LECTURE - I	Dr. S. Ananda Kumar, Anna University, Chennai Al-MCM-41 reinforced epoxy-CE-Poly-benzoxazine hybrid nanocomposites with high di-electric constant and low di-electric loss
Co-Chairperson: Dr. G. T. Senthil Andavan, SRM University, Chennai.		
11:10 - 12:40	CONTRIBUTORY LECTURE -I	 APM(O) -28 Dr. A. Murali Cu(0) Mediated Controlled Radical Polymerization of Nanocomposites: Graphene as a Macroinitiator APM(O) -19 Simran Kaur Dhillon Polyaniline derived copper embedded in nitrogen-doped carbon catalyst for bio-energy generation in microbial fuel cells APM(O) -20 Mr Nilanjan Mukherjee Effect of Surface Functionalization of Multiwalled Carbon Nanotubes (MWCNTs) towards Block Copolymer grafting via SI-RAFT Technique: A Novel Nanofiller in PEM application APM (O) -03 Ms Arunima Singh Wet-Spun Solid PVDF Fibers and its Characterization APM(O) -04 Mr Anupam Das Development of superior proton conducting PBI composite membranes by incorporating phosphoric acid-loaded covalent organic framework APM(O) -22 Mr. Prakash Vislavath Effect of hybrid filler on acoustic properties of ionomeric composite APM(O) -11 Mr R Ashok Experimental investigation on the mechanical properties of carbon glass-bombyxmori reinforced epoxy hybrid composites
12:40 – 13:30		LUNCH BREAK

Session Chairperson: Prof. Dr. Susanta Banerjee, Indian Institute of Technology Kharagpur & Co-Session Chairperson: Shri. Varun Singh Poonia, Deputy Industrial Adviser, DCPC, Govt. of India.			
13:30 – 14:15	PLENARY LECTURE - II	Prof. B. C. Ray, NIT Rourkela Material Recovery Strategies from Thermoset Composites	
14:15 – 14.45	KEYNOTE LECTURE-III	Dr. M. Abdul Kader, Central Institute of Petrochemicals Engineering & Technology Ahmedabad *Recent Developments in Plastics Circular economy*	
14:45 – 15.15	KEYNOTE LECTURE-IV	Prof. D. D. Sarode, Institute of Chemical Technology-Mumbai Recycle and Reuses of Plastic waste for sustainable development	
15:20 -15.40	INVITED LECTURE – III	Dr.Akhil S Nair, SEDAXIS – Advanced Materials Pvt. Ltd, Chennai Continuous Fiber Co-Extrusion for Lightweight Composite 3D Printing - Possibilities and Use Cases	
Co-Chairperson: Dr. G. T. Senthil Andavan, SRM University, Chennai.			
15:45- 16:45	CONTRIBUTORY LECTURE -II	 APM (O) -08 Riya Koley Waste MoringaOleifera Gum Based Sustainable Multifunctional Additive for Rubber APM (O) -43 Mr. Ashish Raghavan Biomedical based Polyolefin Waste: Effect of Sterilization and Reactive Compatibilization on the Properties of Blends APM(O)-55 Mr. Sravendra Rana Plastic Waste Management: Vitrimer- A sustainable approach APM(O)-39 Mr. Gaurav Mishra Recycled PPCP mixed filler composite for Automobile application APM(O)-51 Ms. V Veena Study of recovery and re-use of glass and carbon fibres 	
17:00 -17:30	VALEDICTORY FUNCTION	Feedback Concluding Remarks Vote of Thanks APM 2023 Announcement	
Day End			