

14th International Conference - APM 2023

PROGRAMME SCHEDULE

DAY 1: 17th March, 2023

REGISTRATION	08:00 Hours
INAUGURATION	09:30 – 10:30 Hours
HI-TEA	10:30 – 10:45 Hours

HALL - I	PLENARY TALK	10:45 – 12:35 Hours
Session Chairpersons: Prof. Phillipe Roger and Prof. Naveen K. Navani		
Lecture Title / Authors		Time (hrs.)
Circular Economy – Opportunities for the Plastics Industry <i>Mr. Janardhanan Ramanujalu</i> Vice President & Regional Head, SABIC South Asia & ANZ		10:45-11:05
Nature-inspired and Bioplastics-based Atmospheric Water Harvesting <i>Prof. Ashok Vaseashta</i> International Clean Water Institute, VA, USA		11:05-11:35
Polymers - a Family of Innovative Materials <i>Prof. Ashok Misra</i> IISC, Bangalore (Former Director- IIT Bombay)		11:35-12:05
Elegant Sustainable Plastics for Day-to-Day Applications <i>Prof. Vimal Katiyar</i> Indian Institute of Technology, Guwahati		12:05-12:35

HALL - I	KEYNOTE TALK	12:35- 13:25 Hours
Session Chairpersons: Prof. Ashok Misra & Dr. Smita Mohanty		
Lecture Title / Authors		Time (hrs.)
Dynamic Reversible Crosslinking in Elastomers: A New Approach Towards Sustainability <i>Prof. Nikhil Kumar Singha</i> Indian Institute of Technology, Kharagpur		12:35-13:00
Upcycling Commodity Polymers <i>Prof. Rabah Boukherroub</i> IEMN, France		13:00-13:25
LUNCH BREAK		13:25 – 14:30 Hours

POST LUNCH SESSIONS : 14:30 –16:20 Hours

Hall - I	Hall – II	Hall – III	Hall – IV
Keynote Talk	Sustainable & Green Polymeric Systems - I	Designing Polymers for Advanced Technologies- I	Circular Economy - I

HALL - I	KEYNOTE TALK	14:30-16:10 Hours
Session Chairpersons: Prof. Ashok Vaseashta & Prof. Nikhil Kumar Singha		
Lecture Title / Authors		Time (hrs.)
Present status on plastic waste management and EPR in India <i>Shri. Vijay Kumar</i> KSPA, Karnataka		14:30-14:55
Engineered nano-particulates and hydrogel-based biomaterials towards bone tissue regeneration <i>Prof. Santanu Chattopadhyay</i> Indian Institute of Technology, Kharagpur		14:55-15:20
Production of 3D filaments with single-screw and twin-screw extruders <i>Dr. Julian Ungerer</i> Thermofischer Scientific, Germany		15:20-15:45
Improving the quality of recycled plastic granules to replace Virgin Granules <i>Shri. Ulhas Parlikar</i> Former Director, Geocycle Business & Dy. Head, Geocycle, India		15:45-16:10
TEA BREAK		16:10-16:25 Hours

Hall - II	Sustainable & Green Polymeric Systems- I	
Session Chairpersons: Dr. Debadutta Ratna & Dr. Alok Sahu		
Lecture Title / Authors		Time (hrs.)
INVITED TALK		
Sustainably Designed Natural Fiber Reinforced Functionalized Polymer Composites <i>Dr. Sanjay Palsule</i> Indian Institute of Technology, Roorkee		14:30-14:50
Applications of Natural Polymers in Pharma Industry <i>Dr. P D Gupta</i> Manipal University, Karnataka		14:50-15:10
Clouding behaviour of hydroxypropyl methyl cellulose: Effects of amphiphilic drugs and inorganic salts <i>Dr. Ajmal Koya Pullikal</i> National Institute of Technology, Mizoram		15:10-15:30
Value Proposition and Market Drivers for Bioplastics <i>Dr. Sunder Balakrishnan</i> Nature Tec, Chennai		15:30-15:50
CONTRIBUTORY PAPERS		
Green Composite: Utilizing Waste Plastic and Corn Husk Biomass for Sustainable Wood-Plastic Composite Production <i>Shri. Kiran Kumar Vuba</i> CIPET: CSTS-Hyderabad		15:50-16:00
Preparation and characterization of ZnO loaded β-chitosan nanocomposite films by in-situ precipitation <i>Mr. Rashid Sultan K</i> Amrita Vishwa Vidyapeetham, Kollam		16:00-16:10
Microwave Assisted Synthesis Technique for Biopolymer Based Hydrogel <i>Ms. Monisha Srivastava</i> Harcourt Butler Technical University, Kanpur		16:10-16:20
TEA BREAK		16:20 – 16:35 Hours

Hall – III	Designing Polymers for Advanced Technologies-I	
Session Chairpersons: Dr. Debasis Samanta & Dr. Syed Amanulla		
Lecture Title / Authors		Time (hrs.)
INVITED TALK		
Molecules To Devices: Solid-State Sensors for Environmental Monitoring <i>Prof. Praveen C Ramamurthy</i> IISC, Bengaluru		14:30-14:50
CQDs Imprinted Polysaccharide based Nanocomposites for Glucose Sensing in Real Human Blood Serums <i>Dr. S K Swain</i> Veer Surendra Sai University of Technology, Sambalpur		14:50-15:10
Development of improved and environment friendly flame-retardant wood dust based plastic composite for defence application <i>Dr. Aswini Kumar Mohapatra</i> CIPET: IPT, Bhubaneswar		15:10-15:30
CONTRIBUTORY PAPERS		
Superabsorbent cellulose-based polymeric hydrogels for agriculture application <i>Mr. Sachin Bhaladhare</i> Tripura University, Agartala		15:30-15:40
Interaction of ion with nanowire and graphene <i>Mr. A.K Behera</i> CIPET: IPT, Bhubaneswar		15:40-15:50
Antimicrobial Polymeric Composites and Nanocomposites in Consumer Goods and Healthcare Sector: A Healthier Way to Prevent Infection <i>Mrs. Mousam Choudhury</i> CIPET: CSTS - Aurangabad		15:50-16:00
Sustainable Fabrication of High Molecular Weight EPDM and Waste Ceramic Based Vibration Isolator for E-Automotive <i>Ms. Roumita Hore</i> Indian Institute of Technology, Kharagpur		16:00-16:10
Chitosan Grafted Polyacrylonitrile working as a compatibilizer in PVA/PEG Blend for membrane applications <i>Dr. Neetha John</i> CIPET: IPT, KOCHI		16:10-16:20
TEA BREAK		16:20 – 16:35 Hours

Hall – IV	Circular Economy-I	
Session Chairpersons: Shri. Vijay Kumar & Dr. B. Srinivasulu		
Lecture Title / Authors		Time (hrs.)
INVITED TALK		
Introduction to Microplastics <i>Mr. Santosh Nagasamy</i> Phitons Bioengineering, Bengaluru		14:30-14:50
Recycled Polymer Materials for Scavenging Biomechanical Energy <i>Dr. Arunkumar Chandrasekhar</i> Vellore Institute of Technology, Vellore		14:50-15:10

Intelligent Waste Management – Making Waste Management Better and Smarter <i>Mr. Salman Zafar</i> BioEnergy Consult, Delhi	15:10-15:30
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CONTRIBUTORY PAPERS	
Recycling COVID-19 pandemic wastes toward triboelectric touch sensors for smart IoT applications <i>Mr. Sayyid Abdul Basith</i> Vellore Institute of Technology, Vellore	15:30-15:40
Diesel grade fuel by catalytic pyrolysis of waste plastics <i>Dr. Roopa Farshi</i> Dayananda Sagar College of Engineering, Bengaluru	15:40-15:50
Sustainable Waste Management of Engineering Plastics Generated from E-Waste: A Critical Evaluation of Mechanical, Thermal and Morphological Properties <i>Mr. Jaidev K</i> Saahas Zero Waste, Bengaluru	15:50-16:00
Analysis of polymer blends from waste Electrical and Electronic Equipments (WEEE): An approach towards sustainable recycling with value addition <i>Dr. Manoranjan Biswal</i> CIPET: SARP-APDDRL, Bengaluru	16:00-16:10
Hydrophobic micro-porous membrane preparation from waste PVDF pipes for Desalination applications <i>Dr. Vibha Goswami</i> CIPET: IPT, Jaipur	16:10-16:20
TEA BREAK	16:20 – 16:35 Hours

POSTER SESSION	
HALL - V	15:30 – 17:30 Hours

EVENING SESSIONS: 16:25 –18:15 Hours			
Hall - I	Hall – II	Hall – III	Hall – IV
Engineering & Specialty Polymer Systems-I	Product Design and Simulation-I	Advanced Polymer Characterization-I	Sustainable & Green Polymeric Systems - II

Hall - I	Engineering & Specialty Polymer Systems-I	
Session Chairpersons: <i>Prof. Santanu Chattopadhyay & Dr. S K Swain</i>		
Lecture Title / Authors	Time (hrs.)	
INVITED TALK		
Interpenetrating Polymer Network based Shape Memory Polymers with Multifunctional Properties <i>Dr. Debdutta Ratna</i> Naval Materials Research Laboratory (NMRL), Ambarnath	16:25-16:45	
Immobilization of polymers to glass, leather and related surfaces <i>Dr. Debasis Samanta</i> CSIR-Central Leather Research Institute (CLRI), Chennai	16:45-17:05	
Multi-scale modeling of Polymeric Systems from Atoms to Parts <i>Dr. Ritwik Kavathekar</i> India Scientist Industry Process Consultant – Dassault Systèmes, Bangalore	17:05-17:25	
CONTRIBUTORY PAPERS		
Feasibility of Extruded and Thermoformed Flame-Retardant Thermoplastics for EV Battery Packs <i>Mr. Amol Avhad</i> SABIC Technology Center, Bengaluru	17:25-17:35	
Annealing Temperature Dependent Evolution of β-phase of PVDF <i>Ms. Rajeswari K</i> Merit Arts and Science College, Tirunelveli	17:35-17:45	
Polyetheramine modification of epoxidized natural rubber and its function as a humidity adhesive sensor <i>Ms. Aparna Guhait</i> Indian Institute of Technology, Kharagpur	17:45-17:55	
Properties of Ozone treated PLA Filaments <i>Mrs. Sabana Ara Begum</i> CIPET: SARP-LARPM, Bhubaneswar	17:55-18:05	
Non-Platinum-Based Oxygen Reduction Catalysts for Microbial Fuel Cells <i>Dr. Kingshuk Dutta</i> CIPET: SARP-APDDL, Bengaluru	18:05-18:15	

Hall – II	Product Design and Simulation-I	
Session Chairpersons: <i>Dr. Ramya Krishnan & Dr. Aswini Kumar Mohapatra</i>		
Lecture Title / Authors	Time (hrs.)	
INVITED TALK		
Capturing processing-induced material anisotropy in blow molding CAE simulation <i>Mr. Ratnesh Khandelwal</i> SABIC Research & Technology India Pvt. Ltd., Bengaluru	16:35-16:55	
Application of Fractography for Investigation of Damage Mechanisms in Short Fiber Reinforced Polyamide (SRFP) Products <i>Mr. Sunil Kumar Narayanan</i> Bosch Global Software Technologies Pvt. Ltd., Bengaluru	16:55-17:15	

Insights from Design, Modeling and Simulations for Developing Thermoplastic-Intensive Solutions in emerging applications <i>Dr. Bhaskar Patham</i> SABIC Research & Technology India Pvt. Ltd., Bengaluru	17:15-17:35
Cost and Weight optimization using multi-scale modelling and simulation of fiber-filled polymers <i>Mr. Rajat Kumar</i> Hexagon MI, Bengaluru	17:35-17:55
CONTRIBUTORY PAPERS	
Effective elastic properties of polymeric 3D printed novel Honeycomb Cuboid lattice: Numerical homogenization and experimental validation <i>Ms. Rajnandini Das</i> Indian Institute of Technology, Madras	17:55-18:05
Quality Injection Moulded Product by Flow Technology <i>Mr. Rahul Patil</i> Varroc Polymer Limited, Aurangabad	18:05-18:15

Hall – III	Advanced Polymer Characterization-I
Session Chairpersons: Prof. Praveen C Ramamurthy & Dr. Sanjay Palsule	
Lecture Title / Authors	Time (hrs.)
INVITED TALK	
Investigations on microstructure and properties of basalt fiber, Silicon Dioxide and Alumina reinforced polymer composite <i>Dr. M Ravichandran</i> K. Ramakrishnan College of Engineering, Trichy	16:35-16:55
Development of Halloysite Nanotubes (HNTs) Incorporated High-Performance Thermoplastic/Elastomer Blend Nanocomposites and their Characterization <i>Dr. Alok Sahu</i> CIPET: IPT, Raipur	16:55-17:15
An Experimental Study of Mechanical, Thermal, Morphological and Fire-retardant Properties of Polypropylene/Talc/ATH Composites in Presence of Compatibilizer <i>Dr. Pratap Chandra Padhi</i> CIPET: IPT, Bhubaneswar	17:15-17:35
CONTRIBUTORY PAPERS	
Dynamic Optimization of Polypropylene Reactor through Melt Flow Index and Xylene Solubility Soft Sensors <i>Ms. Alphy Thomas</i> MRPL, Bengaluru	17:35-17:45
Spectroscopy Solutions in Polymer Chemistry- LCNMR, FTIR Microscope <i>Mr. Sandip S Jagtap</i> LabIndia Analytical instruments Pvt. Ltd., Bengaluru	17:45-17:55
Exploring Mechanical, Thermal, Morphological and Rheological Properties of Polypropylene-Thermotropic Liquid Crystalline Polymer (Vectra B-950) Blends in Presence of Compatibilizer <i>Dr. Pijush Kanti Mandal</i> CIPET: IPT, Bhubaneswar	17:55-18:05
Green blends of PLA/epoxidized neem oil: Study on mechanical and antimicrobial properties <i>Mr. K. A. Rajesh</i> CIPET: IPT, KOCHI	18:05-18:15

Hall – IV	Sustainable & Green Polymeric Systems - II	
Session Chairpersons: <i>Mr. Santosh Nagasamy & Dr. S K Samal</i>		
	Lecture Title / Authors	Time (hrs.)
INVITED TALK		
	Biodegradable biopolymers from red seaweed for packaging and single-use applications <i>Dr. Hemant Giri</i> Sea6 Energy Pvt. Ltd., Bengaluru	16:35-16:55
CONTRIBUTORY PAPERS		
	Multi-vapor responsive biocompatible and programmable soft actuator <i>Ms. Sarah Ahmad Siraj</i> Indian Institute of Technology, Madras	16:55-17:05
	Optimisation of carbon sources for novel cellulosic biopolymer production by <i>Novacetimonas hansenii</i> in static culture condition <i>Ms. Neelima S</i> Mahatma Gandhi University, Kottayam	17:05-17:15
	Influence of nanocellulose on the mechanical and barrier characteristics of <i>Moringa Oleifera</i> fiber reinforced with PVA composite films <i>Ms. Kajal Mishra</i> Indian Institute of Technology, Roorkee	17:15-17:25
	Vapour responsive and controlled actuation of biopolymer-based soft actuators <i>Mr. Vipin Kumar</i> Indian Institute of Technology, Madras	17:25-17:35
	Green Banana Peel Wastes to develop Biodegradable blend Film for Food Packaging Applications <i>Dr. V H Sangeetha</i> CIPET: IPT, Lucknow	17:35-17:45
	Adsorption and Desorption of Amoxicillin Antibiotic from Water Matrices Using an Effective Bio-polymer <i>Ms. Shabnam Siddiqui</i> B M S College of Engineering, Bangalore	17:45-17:55
	Development of renewable resource based biodegradable mulch films: evaluation of properties <i>Mr. Manmath Parida</i> CIPET: SARP-LARPM, Bhubaneswar	17:55-18:05
	Preparation and property analysis of extruded blown Guargum/PBAT/PLA composite film <i>Mrs. Pooja Priyadarsini</i> CIPET: SARP- LARPM, Bhubaneswar	18:05-18:15

CULTURAL PROGRAM	18:30 Hours Onwards
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POSTERS

Name of the Presenter	Paper Title
Bilga Bhuvan <i>CUSAT, Kochi</i>	Evaluation of Alginate-Based Electrostatically Crosslinked Hydrogels as Bioink for 3D Printing
A. Archana Royal <i>Atria Institute of Technology, Bangalore</i>	A Succinct Review of Additive Manufacturing Technologies and Materials used In Medical
Abhilipsa Sutar & Priyansha Biswal <i>CIPET: IPT- Bhubaneswar</i>	Development of Distemper Paint
Abhishek Bhabani <i>CIPET: IPT- Bhubaneswar</i>	Synthesis of Conducting Paints
Akshay A Akare <i>Kamla Nehru Mahavidyalaya, Nagpur</i>	Synthesis and Characterization of Copolymer derived from 8-Hydroxyquinoline 5-Sulphonic Acid-Acrylamide-Formaldehyde
Aman Pal <i>CIPET: IPT- Bhubaneswar</i>	Synthesis of Table Tennis Racquet Inner Frame
Shaju M <i>Karpagam Academy of Higher Education, Coimbatore</i>	Overview of Conversion of Waste Plastic to Fuels Via. Pyrolysis Using Nano Zeolite Catalyst
Mohit Rajauriya <i>Mundra Solar Techno Park Ltd (MSTPL), Gujarat.</i>	Thermal and Mechanical Properties and Durability Behaviour of Polyolefin Encapsulant in Photovoltaic Modules
Riya Bisht <i>CIPET: IPT- Bhubaneswar</i>	Polyaniline Nanoparticle Sensor for Bacterial Detection
Roshani Matawale <i>CIPET: IPT- Bhubaneswar</i>	Fabrication and Characterization of Coir Fibre Reinforced Recycled Polypropylene Composite for Various Applications
S Pramila <i>CIPET: IPT- Bhubaneswar</i>	Development of Cellulose Acetate Purification Membrane from Cigarette Butts for Controlling Air Pollution
S. M. Sontakke <i>Mahatma Gandhi Mahavidyalaya, Armori</i>	Synthesis, Characterization, Morphology and Biocidal Studies of Copolymer Derived from Sulphanilic Acid And Semicarbazide
Sarthak Das <i>CIPET: IPT- Bhubaneswar</i>	Preparation of Biodiesel
Mohammed Imaad <i>Atria Institute of Technology, Bangalore</i>	FDM Machine Reliability and its Failures
Monish Kumar G <i>Atria Institute of Technology, Bangalore</i>	The Significant Effect of Process Parameters on FDM Printed Parts
Suraksha T S <i>Siddaganga Institute of Technology, Tumkur</i>	Fusogenic Liposome-Coated Nanoparticles For Rapid Internalization into Donor Corneal Endothelial Tissue to Enable Prophylaxis before Transplantation
Swarup Ranjan Dash <i>CIPET: IPT- Bhubaneswar</i>	Epoxy Resins and Its Applications

Purnima Nimse <i>Jaipur National University, Jaipur</i>	Synthesis of Carbon Nanofibers Using Camphor Oil and its Application for Textile Effluent Treatment
Hema S <i>Amrita Vishwa Vidyapeetham, Kollam</i>	Diffusion and Transport of Organic Solvents Through NR-NBR Blends
Asha K <i>Sree Kerala Varma College, Kerala</i>	Mechanical And Thermal Properties of PVDF-Zinc Tungstate Nanocomposite Films
Nimisha Babu Raj <i>Sree Kerala Varma College, Kerala</i>	Effect of Lead Tungstate Nanofillers in the Mechanical and Thermal Properties of Poly Vinylidene Fluoride (PVDF) Polymer
Shabnam Siddiqui <i>B M S College of Engineering, Bangalore</i>	Modelling and Optimization of Adsorption Conditions using Response Surface Methodology for Removal of Amoxicillin Antibiotic from Aqueous Solution on Chitosan Grafted Sodium Acrylate/Nanoclay/Hap Composite
Sandesh Jaybhaye <i>B.K. Birla College, Maharashtra</i>	Exploration of an Agricultural Waste (Oryza Sativa) as Sustainable Microwave Absorption Materials
Aleena Sabu <i>Amrita Vishwa Vidyapeetham, Kollam</i>	Polyvinylidene Fluoride-Graphite- Based Conducting Nanocomposites: Effect of Magnetite Nanoparticles on the Electrical Properties
Anuradha Biswal <i>Veer Surendra Sai University of Technology, Sambalpur</i>	Nanogold Imprinted Chitosan/Poly (Acrylic Acid) @Caco3 Nanocomposite Hydrogel as Wound Dressing Materials
Archana Bharathy <i>Anna University – MIT Campus, Chennai</i>	Functionalization of Microcrystalline Cellulose and its Effect on Polymer Reinforcement
Ashish Raghavan <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Evaluation of Properties and Value-Addition in Biomedical Waste-Based Thermoplastic Recycled Blends
B.U. Kelkar <i>Institute of Wood Science and Technology, Bengaluru</i>	Performance of Bamboo Strand Lumber Produced from Thermally Modified Dendrocalamus Strictus Bamboo Bonded with Phenol Formaldehyde Against Accelerated UV Irradiation
Baba Linkanmani Sahoo <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Development of Core Layer: Bio Based Multilayer Packaging Films
Dibya Prakash Sethy <i>CIPET: IPT- Bhubaneswar</i>	Preparation of Alkyd Resin from Phthalic Anhydride
Dishari Chatterjee <i>Institute of Wood Science and Technology, Bangalore</i>	Superhydrophobic Coatings Using Nanoparticles for Protection of Wood
G.J.Naveen <i>Sambhram Institute of Technology, Bengaluru</i>	Process Parameter Optimization and Validation for Manufacturing of Ball Point Pen Cap in Injection Molding Machine Using Taguchi Design of Experiments
R. Kartikey <i>CIPET: IPT-Jaipur</i>	Development of Eco-Friendly Plastic Bricks for Construction Application Using Recycled Plastic Bottle Waste - A New Sustainability

Kowsika Murugesan <i>CIPET: SARP-APDDRL, Bengaluru</i>	Human Hair Reinforced Recycled Polypropylene Composite
Laxmikanta Behera <i>CIPET: IPT- Bhubaneswar</i>	Sustainable Production of Cellulose Based Hydrogels with Superb Absorbing Potential in Physiological Saline
Megha Rangari <i>Kamla Nehru Mahavidyalaya, Maharashtra</i>	Selective Removal of Toxic Metal Ions from Waste Water Using 2-Hydroxyacetophenone-Acrylamide-Furfural Type Chelating Resins
Piyush Gupta <i>IIT Kharagpur</i>	A Facile Strategy for the Development of Halogen Free-Flame Retardant Silicone Rubber Composites for Refrigerator and Air-Conditioning Applications
P Nagraik <i>Institute of Wood Science and Technology, Bengaluru</i>	Physico-Mechanical Properties and Characterization of Nano-Wood Composite Prepared from Nano-Zinc Oxide Fortified Furfuryl Alcohol
Pragyan Aparajita Dash <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Effect of Metal Ions on Structural and Biological Properties of Bioactive Glass for Biomedical Application
Girija Prasad <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Characterisation and Distribution of inflow of microplastics from rivers Damanganga and Tapi and Dumas beach, Gujarat, India
Previn R <i>CIPET: IPT-Chennai</i>	Design and Analysis of Floater for Floating Solar Power Plant in snowfall Region
R. Gurumoorthi <i>CIPET: IPT-Chennai</i>	Design and Fabrication of Microstructured 3D Printed and Biocompatible Scaffold for Bone Tissue Engineering
R. Jeyanthi <i>The Gandhigram Rural Institute, Tamil Nadu</i>	On The Electrical and Thermal Properties of Chitosan- Starch Blend Incorporated with different Ammonium Halides
Rahul Chatterjee <i>University of Calcutta, Kolkata</i>	Design and Processing of Thermoplastic Elastomers In 3D Mode
Sameer Nayak <i>CIPET: IPT- Bhubaneswar</i>	Preparation of Bioplastic from Corn starch
Saswat Ranjan Saho <i>CIPET: IPT- Bhubaneswar</i>	Synthesis of phenol urea formaldehyde resin
Sharath C M <i>CIPET: IPT- Chennai</i>	Hybrid Taguchi Approach and Grey Rational Analysis Model in Optimizing Process Parameters of Injection Moulded Ophthalmic Lens
Divine Sharon M <i>CIPET: IPT- Chennai</i>	Effect of Reprocessed Thermoplastic Elastomers on The Physico-Mechanical Characteristics and Durability of High-Density Polyethylene (HDPE)
Stephen Jose <i>CIPET: IPT- Chennai</i>	Synthesis & Characterization of Water-Soluble Multicolour Emitting Polymer Nanocomposites
P. Lal Mohammed Khan, Syed Amanulla <i>CIPET: IPT- Chennai</i>	Design and Fabrication of High Efficiency Hexa Drone for Agricultural Applications

DAY 2: 18th March, 2023

REGISTRATION

08:00 am

HALL - I

PLENARY TALK

09:00 – 11:45 Hours

Session Chairpersons: Prof. Vimal Katiyar & Prof. S Anandhan

Lecture Title / Authors

Time (hrs.)

Synthesis, characterization, properties and potential applications of polystyrene-b-poly(vinylidipicolinic acid) pH-responsive core-shell nanoparticles

Prof. Phillipe Roger

Université Paris-Saclay, Orsay, France

09:00-09:30

Design of novel multifunctional aerogel structures using synergy of additive manufacturing and sol-gel processing

Prof. Sadhan C. Jana

The University of Akron, USA

09:30-10:00

A Recent Perspective on Solid Waste to Value: A Circular Materials Economy Approach

Prof. Mohini Sain

University of Toronto, Canada

10:00-10:30

Sustainable food-grade packaging material for extended shelf life of food-generation of Nanobiotic polymeric material with Protean Functionality

Prof. Naveen K Navani

Indian Institute of Technology, Roorkee

10:30-11:00

TEA BREAK

11:00 – 11:15 Hours

Exploring the Potential of Natural Fiber Honeycomb Structures, Hollow Glass Microsphere Filled Syntactic Foams, and Bioplastics in Sustainable Applications

Prof. K. Kanny

Durban University of Technology, South Africa

11:15-11:45

HALL - I

KEYNOTE TALK

11:45-13:25 Hours

Session Chairpersons: Prof. Mohini Sain & Dr. Peethambaram Parthasarathy

Lecture Title / Authors

Time (hrs.)

Design and Development of Barium Tungstate Nanorods dispersed Electroactive Polymer Nano fabrics for Piezoelectric and Triboelectric Energy Harvesting

Prof. S Anandhan

National Institute of Technology, Karnataka

11:45-12:10

Direct Inline Intelligent Compounding Extrusion of Commingled Plastic Waste

Dr. Babu Padmanabhan

Steer Engineering Pvt. Ltd., Bengaluru

12:10-12:35

Polycarbonate – Polyester blend: A Route to Sustainability

Dr. Susanta Mitra

ETP Product & Material Science, SABIC, Bengaluru

12:35-13:00

Future perspective of the Indian Petrochemicals Industry

Shri. Varun Singh Poonia

Department of Chemicals and Petrochemicals, New Delhi

13:00-13:25

LUNCH BREAK

13:25 – 14:30 Hours

POST LUNCH SESSIONS : 14:30 –16:40 Hours

Hall - I	Hall – II	Hall – III	Hall – IV
Keynote Talk	Designing Polymers for Advanced Technologies-II	Circular economy -II	Engineering & Specialty Polymer Systems -II

HALL - I	KEYNOTE TALK	14:30-16:10 Hours
Session Chairpersons: <i>Dr. Navinchandra Shimpi & Dr. P S G Krishnan</i>		
Lecture Title / Authors		Time (hrs.)
Thermoplastic Innovations for the Evolving Fields of Electrification and Energy Transition <i>Dr. Bhaskar Patham / Dr. Sumanda Bandyopadhyay</i> Global Application Technology, SABIC, Bengaluru		14:30-14:55
Asymmetric fabrication and in-vivo evaluation of wound healing potency of electrospun biomimetic nanofibrous scaffold based on collagen crosslinked modified-chitosan and graphene oxide quantum dot nanocomposites <i>Dr. Dipankar Chattopadhyay</i> University of Calcutta, Kolkata		14:55-15:20
Advanced Applications of Polymeric Materials – A Pragmatic Assessment <i>Dr. Ravindra Rama Shetty</i> Hollingsworth & Vose, Mysuru		15:20-15:45
Electronic Waste Recycling <i>Dr. Peethambaram Parthasarathy</i> E-Parisaraa Pvt. Ltd., Bengaluru		15:45-16:10
HALL - I	PLENARY TALK	16:10-16:40 Hours
Bio Circular Economy in the Automotive Sector <i>Prof. Alcides Lopes Leao</i> UNESP – Sao Paulo State University, Brazil		16:10-16:40
TEA BREAK		16:40-16:55 Hours

Hall - II	Designing Polymers for Advanced Technologies-II	
Session Chairpersons: <i>Dr. G Santhana Krishnan & Dr. Sandesh Kumar Jain</i>		
Lecture Title / Authors		Time (hrs.)
INVITED TALK		
Enhanced sensing performance of morphology and size dependent novel nanomaterials <i>Dr. Navinchandra Shimpi</i> University of Mumbai, Mumbai		14:30-14:50
Functional polymeric interfaces for biomedical applications <i>Dr. Mahaveer Kurkuri</i> JAIN University, Karnataka		14:50-15:10
High Performance Polypropylene - Natural Fiber Composites for Automobile and other Applications <i>Dr. Manjunatha Begur</i> MRPL, Bengaluru		15:10-15:30

Sustainable Materials and technology <i>Dr. Harshad R. Patil</i> Reliance Industries Ltd.	15:30-15:50
Highly Efficient Poly(ionic liquid)-Based Anion Exchange membranes for Diffusion Dialysis Applications <i>Dr. Mahesh Padaki</i> JAIN University, Karnataka	15:50-16:10
CONTRIBUTORY PAPERS	
Upgrading tyre pyrolysis oil fractions to lower smoke emissions using a cheap and novel adsorbent <i>Dr. Akhil Mohan</i> Indian Institute of Technology, Bombay	16:10-16:20
A comparison study on the degradation of methyl orange, malachite green, and methylene blue <i>Ms. Malavika Sajith</i> Amrita Vishwa Vidyapeetham, Kollam	16:20-16:30
Flexible conductive smart textiles for blocking UV and EM radiation <i>Mr. Jagadeshvaran P L</i> Indian Institute of Science, Bengaluru	16:30-16:40
TEA BREAK	16:40 – 16:55 Hours

Hall – III	Circular economy -II
Session Chairpersons: Prof. Reena Singhal & Dr. Hemant Giri	
Lecture Title / Authors	Time (hrs.)
INVITED TALK	
Unlocking the Potential of Chemical Recycling for Plastic Circularity. <i>Mr. Suhas Dixit</i> AP Chemi, Mumbai	14:30-14:50
Sustainability and circularity in absorbent hygiene products industry: Biodegradable and compostable sanitary pads <i>Mr. Chirag Virani</i> Sparkle Eco Innovations Private Limited, Gujarat	14:50-15:10
Recycling: hydroprocessing end of use polymers to diesel <i>Dr. Mangesh V L</i> K L Deemed to be University Green Fields, Vaddeswaram	15:10-15:30
Thermoplastic Composites for a sustainable Future - Opportunities with Recycling, Repair and Reuse <i>Dr. Dipa Roy</i> The University of Edinburgh, United Kingdom	15:30-15:50
CONTRIBUTORY PAPERS	
Serious Environmental Threat Water Hyacinth (Eichhornia crassipes) Plant Natural Fibers: Novel Extraction Methods and Morphological Properties for Polymer Composite Applications <i>Mr. Ajithram A</i> Karpaga Vinayaga College of Engineering and Technology, Chengalpattu	15:50-16:00
Development of Banana Pseudo Stem-based Paper Products: Substitution to Wood-based Paper Products <i>Mr. M. P. Chandresh</i> JSSTI Campus, Mysuru	16:00-16:10

Characterization of liquid products obtained from catalytic binary co-cracking of residual fuel oil with various waste plastics <i>Mr. Pamreishang Kasar</i> CIPET: CSTS, Varanasi	16:10-16:20
Innovative article on natural 'scrubber' <i>Mr. H.M. Viswanatha Sastry</i> MECON Ltd. Mysore	16:20-16:30
Utilization of Industrial Waste as Reinforcement for Electronic Packaging Substrate <i>Ms. Swati Sharma</i> Malaviya National Institute of Technology, Jaipur	16:30-16:40
TEA BREAK	16:40 – 16:55 Hours

Hall – IV	Engineering & Specialty Polymer Systems – II	
Session Chairpersons: <i>Dr. Babu Padmanabhan & Dr. K. Prkalathan</i>		
Lecture Title / Authors		Time (hrs.)
INVITED TALK		
Non-Traditional Polymers Leveraging Bio applications <i>Dr. Abhijit Bandhopadhyay</i> University of Calcutta, Kolkata		14:30-14:50
Development of Anion Exchange membrane-based Fuel Cell and Electrolyzer <i>Dr. Ramya Krishnan</i> ARCI, Chennai		14:50-15:10
Industrial trends in the Poly Vinyl Chloride (PVC) Processing <i>Mr. Himalaya Vardikar</i> Pidilite Industries, Mumbai		15:10-15:30
CONTRIBUTORY PAPERS		
Green Proton Battery based on PVA, Proline and Ammonium Nitrate <i>Ms. Hemalatha R</i> V.V. Vanniaperumal College for Women, Virudhunagar		15:30-15:40
Self-Healable Butyl Rubber <i>via</i>. Dual Crosslinking System <i>Ms. Shrabana Sarkar</i> Indian Institute of Technology, Kharagpur		15:40-15:50
A study on usage of various plastics for toy applications <i>Ms. Aswathy NR</i> CIPET: IPT - Bhubaneswar		15:50-16:00
Development and Analysis of Plasma treated bio derived fillers reinforced flame retardant Thermoplastic composites <i>Mr. Malaya Ranjan Parida</i> CIPET: SARP- LARPM, Bhubaneswar		16:00-16:10
Development of Biocomposites Based on Synthetic Rubber and Chicken Feather: Focus on Cure and Mechanical Properties <i>Ms. Saranya K S</i> MES Keeveyam College Valanchery, Malapurram		16:10-16:20
Evaluation of Mechanical and Thermal characteristics of rigid polyurethane foams blown with Eco-friendly Blowing Agents <i>Mr. Sakti Ranjan Acharya</i> CIPET:SARP-LARPM, Bhubaneswar		16:20-16:30
TEA BREAK	16:30-16:45 Hours	

POSTER SESSION

HALL - V

15:30 – 17:30 Hours

EVENING SESSIONS: 16:55 –18:45 Hours

Hall - I	Hall – II	Hall – III	Hall – IV
Designing Polymers for Advanced Technologies-III	Product Design and Simulation-II	Advanced Polymer Characterization-II	Engineering & Specialty Polymer Systems -III

Hall – I

Designing Polymers for Advanced Technologies-III

Session Chairpersons: Dr. Abhijit Bandhopadhyay & Dr. Bhaskar Patham

Lecture Title / Authors

Time (hrs.)

INVITED TALK

Emulsion Polymerization of SBR-Nanocomposites with Filler Nano Carbon Black

Dr. W. B. Gurmule

Kamla Nehru Mahavidyalaya, Nagpur

16:55-17:15

Smart Polymer and their Applications

Dr. H S Patel

Sardar Patel University, Anand

17:15-17:35

CONTRIBUTORY PAPERS

An effective technique for dispersing silica in the matrix of natural rubber by adding a pre-vulcanized gel

Mr. Abhijit Bera

Indian Institute of Technology, Kharagpur

17:35-17:45

Antioxidant, Anthelmintic and Swelling Behaviour of Poly (N-tert-acylacrylamide-co-Acrylamide/Sodium Acrylate) Gold Nanocomposite Hydrogels

Ms. E. Kayalvizhy

PSGR Krishnammal College for Women, Coimbatore

17:45-17:55

Alginate electrospun nanofiber membrane for adsorption and separation of cationic dye and heavy metal

Mr. Devendra Rai

Indian Institute of Technology, Roorkee

17:55-18:05

pH-responsive bilayer films with engineered non-morphing point of actuation for controlled model drug release

Mr. Amit kumar

Indian Institute of Technology, Madras

18:05-18:15

Development of Various C2 substituted Benzimidazolium Cations as Highly Conductive and Stable Polyphenylene Oxide Membranes for Alkaline Fuel Cell Applications: Theoretical and Practical Approach.

Mr. Nagadarshan Swanthal

Siddaganga Institute of Technology, Tumkur

18:15-18:25

Effect of Expandable Graphite on Mechanical, Thermal and Flame-retardant Properties of Fluorocarbon Rubber <i>Ms. Dhanya Vijayan</i> CIPET: IPT- KOCHI	18:25-18:35
Enzymatic polymer nanocomposite electrode for the electrochemical biosensing of cholesterol <i>Ms. Neethu Antony</i> CIPET: IPT- KOCHI	18:35-18:45

Hall – II	Product Design and Simulation-II
Session Chairpersons: <i>Dr. Manjunath Begur & Dr. Irfan Ahmad Mir</i>	
Lecture Title / Authors	Time (hrs.)
INVITED TALK	
CAE-Based Prediction of the Behaviors of Jute-Polyester Composites for Crash Energy Absorption Applications <i>Dr. Anindya Deb</i> Indian Institute of Science (IISc), Bengaluru	16:55-17:15
Investigating the Mechanical Behaviour of Hemp Fibre Reinforced Polypropylene Composites Through Finite Element Modelling <i>Mr. Sriram H</i> Mercedes Benz Research and Development, Bengaluru	17:15-17:35
Sustainable & Agile Plastic Components Production by Integration of Conventional & Additive Manufacturing Methods <i>Mr. Senthilmurugan B</i> Bosch Global Software Technologies Private Limited, Bengaluru	17:35-17:55
CONTRIBUTORY PAPERS	
Influence of different laser textured patterns on adhesive bonding strength of Aluminum Alloy <i>Mr. Prakash Ranjan</i> JAIN Deemed-to-be-University, Bengaluru	17:55-18:05
Solvent responsive 4D printing of soft structures <i>Ms. Smruti Parimita</i> Indian Institute of Technology, Madras	18:05-18:15

Hall – III	Advanced Polymer Characterization -II
Session Chairpersons: <i>Dr. Ravindra Rama Shetty & Dr. U. P. Singh</i>	
Lecture Title / Authors	Time (hrs.)
INVITED TALK	
Structural, thermal, and rheological characteristics of pyrolytically staged condensates in high-pressure pyrolysis of permethylpolysilane <i>Dr. G Santhana Krishnan</i> CSIR-National Aerospace Laboratories, Bengaluru	16:55-17:15
Advancements of Polymeric Membranes: science and technology, Materials and Applications <i>Prof. G. Arthanareeswaran</i> National Institute of Technology, Tiruchirappalli	17:15-17:35

CONTRIBUTORY PAPERS	
Study of EMI shielding ability in dielectric and semiconducting nanoparticles in ABS polymer matrix <i>Mr. Abhilash G P</i> Indian Institute of Science, Bengaluru	17:35-17:45
Erosion response of ramie fiber epoxy based composites filled with titanium oxide <i>Mr. Sourav Kumar Mahapatra</i> National Institute of Technology, Rourkela	17:45-17:55
Facile fabrication of environment friendly Superhydrophobic PVDF/iPP composite membrane for water treatment <i>Dr. T. Senthil</i> CIPET:IPT- Jaipur	17:55-18:05
Comparison study of thermal and chemical analysis of different PE raw materials <i>Dr. Swarnalata Sahoo</i> CIPET: IPT, Bhubaneswar	18:05-18:15
Electrochemical Impedance Spectroscopy of Polymer Electrolyte Membranes in Through-plane and In-plane Methods: Effect of the Probe Geometry, Cell Configuration, and Probe Position <i>Dr. Wasim Feroze G. S</i> CIPET: SARP APDDRL, Bengaluru	18:15-18:25
Preparation and characterization of quinary semiconductor for potential energy application <i>Mr. Manoj Kumar Mallick</i> CIPET: SARP-LARPM, Bhubaneswar	18:25-18:35

Hall – IV	Engineering & Specialty Polymer Systems -III
Session Chairpersons: Dr. Babu Padmanabhan & Mr. Chirag Virani	
Lecture Title / Authors	Time (hrs.)
INVITED TALK	
Development of a lung tumour hydrogel phantom model to assess novel drug treatments and medical devices <i>Dr. Tapas Mitra</i> University of Galway, Ireland	16:55-17:15
Tailoring Functional Organic Materials for Fullerene-Free Organic Solar Cells <i>Dr. Amaresh Mishra</i> Sambalpur University, Odisha	17:15-17:35
CONTRIBUTORY PAPERS	
Fabrication and characterization of thiolated functionalised PVA for buccal film drug delivery <i>Ms. Jebarani J</i> Madras Institute of Technology, Chennai	17:35-17:45
Textile wastewater dye treatment by fabricated Ti/RuO₂ anode: Process optimization and kinetic study <i>Ms. Monica Ranga</i> Indian Institute of Technology, Roorkee	17:45-17:55

Polyvinylidene fluoride (PVDF)-polyethylene oxide (PEO) polymer blend based solid electrolyte for sodium ion battery application <i>Ms. Kanya K S</i> Amrita Vishwa Vidyapeetham, Kollam	17:55-18:05
The Study of Plasticized Biopolymer Blend Electrolytes Based on Polyvinyl alcohol (PVA)- Chitosan (CS) for Battery Application <i>Ms. B. Vijaya</i> Vellore Institute of Technology, Vellore	18:05-18:15
Chemical Recycling and Value Addition of Fiber Reinforced Polymer Composites <i>Dr. Sonalee Das</i> CIPET: SARP-APDDRL, Bengaluru	18:15-18:25

CULTURAL PROGRAM	18:30 Hours Onwards
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POSTERS

Name of the Presenter	Paper Title
Selvi K <i>CIPET: IPT- Chennai</i>	Development of a rapid Fluorescence based bacterial identification with MEH-PPV, π -Conjugated Polymer for direct microscopic diagnosis
Shuvendu Shuvankar Purohit <i>Veer Surendra Sai University of Technology, Sambalpur</i>	GQD Doped Protein Nanocomposite Hydrogels for Wound Healing Applications
Simarani Nayak <i>CIPET: IPT-Bhubaneswar</i>	Mould of PS and PMMA By Solvent Casting Method
Sreelakshmi K Narayanan <i>Cochin University of Science and Technology</i>	Isolation and Characterization of Chitosan from Shrimp Shell Waste
Susobhan Swain <i>Veer Surendra Sai University of Technology, Sambalpur</i>	Selective Detection of L-Cysteine Via. Fluorometric Assay Using Silver Nanoparticles and Rhodamine B In Aqueous Medium
Swapnita Patra <i>Veer Surendra Sai University of Technology, Sambalpur</i>	Glucose Sensing by CQDS Incorporated Chitosan-PVA Nanocomposite in Real Human Blood Serums
Swati Jakhmola <i>CIPET: SARP-APDDL, Bengaluru</i>	Insight On Bio-Based Polyurethane Nanocomposite for Coating Applications: Recent Trends and Development
Tusharkanta Nayak <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Properties Analysis of Plasma Treated PGS/PU Polymeric Sheet: A Comparative Study
Usha Nellur <i>Jain Deemed-To-Be University, Bangalore</i>	Ce-MOF Infused Membranes with Enhanced Molecular Sieving in Application of Dye Rejection
Gabriel A <i>CIPET: IPT- Chennai</i>	Evaluation of Glass Fiber Composite Materials for Body in White (BIW) Structures: An Experimental and Numerical Approach
Sanskriti Smaranika Dani <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Study on Flexible Electrospun PVDF Nanocomposite Fiber for High Performance Piezoelectric MEMS
Suchismita Behera <i>CIPET: IPT-Bhubaneswar</i>	Synthesis of Copper Nanoparticles by Leaf Extract
Gowri Krishan A S & Swati Mondal <i>CIPET: IPT-Bhubaneswar</i>	Preparation and Characterization of Grafted Polypropylene in Addition with Zinc Oxide for Textile Application
Raman kumar Jayabalan <i>Vellore Institute of Technology</i>	Production Of Biocomposites Using Indigenous Tapioca (Manihot Esculenta Crantz) Tuber
Alex Y <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Advancement of AM Technology in Development of Personalized In-Vivo and In-Vitro Prosthetic Implants

Akashdeep Singh <i>Harcourt Butler Technical University, Kanpur</i>	Development of Polyacrylate Films with Polymer Nanocomposite
Sourav Patel <i>CIPET: IPT-Bhubaneswar</i>	PLA/TiO ₂ Nanoparticle Scaffold for Bone Tissue Engineering
Roshni Pattanayak <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Assessment Of Volatile Organic Compounds (VOCs) and Biodegradability of Developed Absorbent Core Targeted to Hygiene Application
Lekshmi S B <i>CIPET: IPT-Kochi</i>	Photocatalytic Degradation of Methylene Blue Using Copper Complex Catalyst
Jaminraja <i>CIPET: SARP-APDDRL, Bengaluru</i>	Design and Development of Lightweight Honeycomb Panel Using Fiber-Reinforced Polymer for E Vehicle
Shruti Kumari <i>CIPET: IPT-Ahmedabad</i>	Development of Superhydrophobic Surfaces Using Oxygen Plasma Processing
Boobalan S <i>CIPET: IPT- Chennai</i>	Fabrication of Flexible Nanocomposite Based on Thermoplastic Polyurethane with Conductive Carbon Fillers
Mitali Yadav <i>Institute of Science and Technology for Advanced Studies & Research (ISTAR)</i>	Studies of Composites Based on Modified Multi-Functional Resin System
Sonali Naik <i>CSIR-NCL, Pune</i>	Additive Manufacturing Technology for Architectural Design of Functional Polycaprolactone Scaffolds for Tissue Engineering Applications
Shravani Malapati <i>Siddaganga Institute of Technology, Bengaluru</i>	Grafting of DABCO-Piperidinium Based Dual Hydroxide Conductors on Highly Fluorinated Poly Arylene Ethers: Discrepancy in Using Decafluorobiphenyl for Block Copolymerization.
Abdul Malik Areekkadan <i>CIPET: IPT-Kochi</i>	Cellulose Nanofiber-Based Polymer Composite; Synthesis by In Situ Mini-Emulsion Polymerization and Application as a Potential Coating for Paper-Based Packaging
Nishanth V K <i>Madras Institute of Technology, Anna University</i>	Ti Fabrication of Composite Roofing Pipe Using Prepregs and Study on Compression Properties Between Unidirectional and Bidirectional Glass Fiber Mat
Aparna Santhoshkumar <i>CIPET: IPT-Kochi</i>	Analysis and Characterization of Electrospun Polymer-Henna Leaves Extract Scaffolds for Wound Healing in Skin Tissue Engineering
Aakash Kumar <i>CIPET: IPT-Kochi</i>	Computational Method to Design a Unit Cell for Bone Tissue Engineering Scaffold
Jisha S Lal <i>Mahatma Gandhi University, Kottayam</i>	Development and Evaluation of Chitosan/Zinc Oxide/Alginate Microspheres for The Release Studies of Metformin Hydrochloride
Anupam <i>CIPET: IPT-Bhubaneswar</i>	Development and Analysis of Poly(lactic Acid)/Poly(butylene Succinate) Based Blown Films with Incorporation of Natural Fillers for Mulching Application

Kurmi Ashish Omprakash <i>CIPET: IPT-Ahmedabad</i>	Preparation and Characterization of Biodegradable and Compostable PBAT/PLA/TPS/ESO Compositions
Reshma V S <i>CIPET: IPT-Kochi</i>	Development of Biopolymer Based on Chitosan Grafted Polyglycidylmethacrylate and Polycaprolactone
Chanchal <i>CIPET: IPT-Ahmedabad</i>	Utilization of Printer Toner Waste into Useful Products
Pawar Dhiraj Sakharchand <i>CIPET: IPT-Ahmedabad</i>	Evaluation of Thermal Conductivity and Dielectric Properties of Epoxy Nanocomposites.
Chetan Kumar <i>CIPET: IPT-Ahmedabad</i>	Application of Different Polymeric Materials in Battery Development
Roselin Gladys J <i>CIPET: IPT- Chennai</i>	Synthesis And Characterization of Light Emitting Polymer for Rapid Detection of Pathogens Causing Urinary Tract Infections
Nakul Rajput <i>CIPET: IPT-Ahmedabad</i>	Study of Biodegradable Film by Using Bio-Filler
Shimna M <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Comparative Study on Surface Functionalization of PTFE By RF-Plasma Treatment
Puja Singh <i>CIPET: IPT-Ahmedabad</i>	Development Of Adhesion Functional Properties of PEEK & CFs Composites Using Surface Modification Techniques
Ipsita Pattanayak <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Development of HAP Based Customized Polymeric Scaffolds Via 3D Printing Technology for Biomedical Application
Bibhudutta Das <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Mechanical Energy Harvesting Using a Coating of BCT-Based Piezoelectric Ink on A Flexible Polymer Substrate
Asish Kumar Sahu <i>Ravenshaw University, Cuttack</i>	Synthesis of An Advanced Li-Salt Monomer for Self-Healing Polymer Electrolytes for Li-Ion Battery (LiB) Application
Deepak Singh Patel <i>CIPET: IPT- Ahmedabad</i>	To Study the Retention Time/Aging Effect of Plasma Treated PET, HDPE And LDPE
Lakshyajit Behera <i>CIPET: SARP-LARPM Bhubaneswar</i>	Current Trends on Design and FEA Analysis of Uncemented 3D printed Structurally Porous Femur Meta-implants.
Chinmayee Mohapatra <i>CIPET: SARP-LARPM Bhubaneswar</i>	Recovery of Polyols from Flexible Polyurethane Wastes by Glycolysis: A Chemical Depolymerization Method

DAY 3: 19th March, 2023

REGISTRATION		08:30 Hours
HALL - I	PLENARY TALK	09:00 – 10:30 Hours
Session Chairpersons: <i>Dr. H S Patel & Dr. Pankaj Kumar</i>		
Lecture Title / Authors		Time (hrs.)
Sustainable Polymer Composites for Lighter and Safer Electric Vehicles <i>Prof. Manjushri Misra</i> University of Guelph, Canada		09:00-09:30
Sustainable Composites for a Circular Economy: Future is now in Mitigating Climate Change <i>Prof. Amar K Mohanty</i> University of Guelph, Canada		09:30-10:00
Nanostructured Polysaccharides Materials for Water Purification <i>Prof. Sabu Thomas</i> Mahatma Gandhi University, Kerala		10:00-10:30
TEA BREAK		10:30-10:45 Hours

HALL - I	KEYNOTE TALKS	10:45-12:00 Hours
Session Chairpersons: <i>Dr. Dipankar Chattopadhyay & Dr. Vishal Verma</i>		
Lecture Title / Authors		Time (hrs.)
Waste management through circular economy <i>Mrs. Shobha Raghavan</i> Saahas Waste Management Pvt. Ltd., Bengaluru		10:45-11:10
Responsible Recycling of Waste Plastics – Towards Circular Economy <i>Dr. Lakshmi Raghupathy</i> TERI School of Advanced Studies, New Delhi		11:10-11:35
Technological Advancements & Growth Trends in Engineering Plastics For Asia Pacific Region <i>Dr. Pankaj Kumar</i> Technical Polymers Material, New Delhi		11:35-12:00

NOON SESSIONS : 12:00 –13:10 Hours

Hall - I	Hall – II
Engineering & Specialty Polymer Systems - IV	Sustainable & Green Polymeric Systems - III

Hall – I	Engineering & Specialty Polymer Systems - IV
Session Chairpersons: Mrs. Shobha Raghavan & Dr. Manoranjan Biswal	
Lecture Title / Authors	Time (hrs.)
INVITED TALK	
Charge transport properties of mixed metal halide perovskite Semiconductors <i>Dr. Satyaprasad Senanayak</i> National Institute of Science Education and Research, Bhubaneswar	12:00-12:20
Polymer Nanocomposites for Defence Application <i>Dr. Manoranjan Patri</i> Naval Materials Research Laboratory, Ambernath	12:20-12:40
CONTRIBUTORY PAPERS	
Advanced test and analysis methodologies for polymer and polymer derivatives – Molar Mass Distribution, Master curves, Transient tests and DMTA <i>Dr. Athira Perilakalathil</i> Anton Paar India, Bengaluru	12:40-12:50
Importance of varying donor and acceptor moieties in fluorene-carbazole based conjugated terpolymers for use in dssc <i>Ms. Pranshula Panigrahi</i> CIPET: SARP-LARPM, Bhubaneswar	12:50-13:00
Influence of multifunctional epoxy chain extender on the properties of PLA/PBAT blend films <i>Ms. Smrithy P B</i> Defence Food Research Laboratory (DFRL), Mysuru	13:00-13:10

Hall – II	Sustainable & Green Polymeric Systems - III
Session Chairpersons: Dr. Akshaya Kumar Palai & Dr. Harekrishna Deka	
Lecture Title / Authors	Time (hrs.)
INVITED TALK	
Synthesis of Biopolymers based novel Poly (AAc-NaAlg-SH) Superabsorbent hydrogels for Sustainable development <i>Prof. Reena Singhal</i> HBTU, Kanpur	12:00-12:20
Use of Industry Wastes as Particulate Fillers in Polymer Composites <i>Dr. Alok Satapathy</i> National Institute of Technology, Rourkela	12:20-12:40

CONTRIBUTORY PAPERS	
Latest lingo cellulose plant fibers from 2016 to 2022: A sustainable and biodegradable Substitutes for Synthetic fibers, petrochemical product and for light weight versatile applications. <i>Mr. H Jeevan Rao</i> Amity University, Noida	12:40-12:50
Effect of process parameters on the physical and mechanical properties of steam-densified wood <i>Mr. Bill Nelson Paul</i> Institute of Wood Science and Technology, Bengaluru	12:50-13:00
Polyvinyl alcohol based real time monitoring antibacterial green films: An alternative to conventional packaging materials <i>Ms. Neenu K V</i> CUSAT, Kochi	13:00-13:10

VALEDICTORY SESSION	13:10-14:00 Hours
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LUNCH	14:00-15:00 Hours
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