

| DAY 1: March 17 th 2023 | | |
|---|---------------|------------------|
| REGISTRATION | | 08.00 am |
| INAUGURATION | | 09.00 – 10.00 am |
| HALL - I | PLENARY TALKS | 10.00 – 11.45 am |
| <i>Session Chairpersons</i> | | |
| Title | | Time (hrs.) |
| Nature-inspired and Bioplastics-based Atmospheric Water Harvesting <i>Prof. Ashok Vaseashta</i> International Clean Water Institute, VA, USA | | 10:00-10:30 |
| Synthesis, characterization, properties and potential applications of polystyrene-b-poly(vinylidipicolinic acid) pH-responsive core-shell nanoparticles <i>Prof. Phillipe Roger</i> Université Paris-Saclay, Orsay, France | | 10:30-11:00 |
| TEA BREAK | | 11:00 – 11:15 |
| Sustainable Polymer Composites for Lighter and Safer Electric Vehicles <i>Prof. Manjushri Misra</i> University of Guelph, Canada | | 11:15-11:45 |

| HALL - I | KEYNOTE TALKS | 11:45-13:30 Hours |
|---|---------------|---------------------|
| <i>Session Chairpersons</i> | | |
| Title | | Time (hrs.) |
| Dynamic Reversible Crosslinking in Elastomers: A New Approach Towards Sustainability <i>Prof. Nikhil Kumar Singha</i> Indian Institute of Technology, Kharagpur | | 11:45-12:10 |
| Responsible Recycling of Waste Plastics – Towards Circular Economy <i>Dr. Lakshmi Raghupathy</i> TERI School of Advanced Studies, New Delhi | | 12:10-12:35 |
| Upcycling Commodity Polymers <i>Prof. Rabah Boukherroub</i> IEMN, France | | 12:35-13:00 |
| Engineered nano-particulates and hydrogel based biomaterials towards bone tissue regeneration <i>Dr. Santanu Chattopadhyay</i> Indian Institute of Technology, Kharagpur | | 13:00-13:25 |
| LUNCH | | 13:30 – 14:30 Hours |

| POST- LUNCH SESSIONS: 14:30 –16:10 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 TALKS | 14:30-16:10 Hours |
|---|---------------|----------------------------|
| Session Chairpersons | | |
| Title | | Time (hrs.) |
| Present status on plastic waste management and EPR in India <i>Shri. Vijay Kumar</i> KSPA, Karnataka | | 14:30-14:50 |
| Direct Inline Intelligent Compounding Extrusion of Commingled Plastic Waste <i>Dr. Babu Padmanabhan</i> Steer Engineering Pvt. Ltd., Bengaluru | | 14:50-15:10 |
| Advanced Applications of Polymeric Materials – A Pragmatic Assessment <i>Dr. Ravindra Rama Shetty</i> Hollingsworth & Vose, Mysuru | | 15:10-15:30 |
| Production of 3D filaments with single-screw and twin-screw extruders <i>Dr. Julian Ungerer</i> Thermofischer Scientific, Germany | | 15:30-15:50 |
| Waste management through circular economy <i>Mrs. Shobha Raghavan</i> Saahas Waste Management Pvt. Ltd., Bengaluru | | 15:50-16:10 |
| TEA BREAK | | 16:10 – 16:25 Hours |

| Hall - II | | Sustainable & Green Polymeric Systems- I |
|--|--|--|
| Session Chairpersons | | |
| INVITED TALK | | |
| Title | | Time (hrs.) |
| 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, Manipal Karnataka | | 14:50-15:00 |
| Clouding behaviour of hydroxypropyl methyl cellulose: Effects of amphiphilic drugs and inorganic salts <i>Dr. Ajmal Koya Pullikal</i> National Institute of Technology, Mizoram | | 15:00-15:20 |
| Value Proposition and Market Drivers for Bioplastics <i>Dr. Sunder Balakrishnan</i> Nature Tec, Chennai | | 15:20-15:40 |
| CONTRIBUTORY PAPERS | | |
| Development of Biocomposites Based on Synthetic Rubber and Chicken Feather: Focus on Cure and Mechanical Properties <i>Ms. Sarany K</i> MES Keveeyam College Valanchery, Malappuram. | | 15:40-15:50 |
| Preparation and characterization of ZnO loaded β-chitosan nanocomposite films by in-situ precipitation <i>Mr. Rashid Sultan K</i> Amrita Vishwa Vidyapeetham, Kollam | | 15:50-16:00 |
| Microwave Assisted Synthesis Technique for Biopolymer Based Hydrogel <i>Ms. Monisha Srivastava</i> Harcourt Butler Technical University, Kanpur | | 16:00-16:10 |
| TEA BREAK | | 16:10 – 16:25 Hours |

| Hall – III | | Designing Polymers for Advanced Technologies-I |
|---|--|--|
| Session Chairpersons | | |
| INVITED TALK | | |
| Title | | Time (hrs.) |
| Non-Traditional Polymers Leveraging Bio applications <i>Dr. Abhijit Bandhopadhyay</i> University of Calcutta, Kolkata | | 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 | | 14:50-15:00 |
| 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 | | 15:00-15:20 |
| CONTRIBUTORY PAPERS | | |
| Superabsorbent cellulose-based polymeric hydrogels for agriculture application <i>Mr. Sachin Bhaladhare</i> Tripura University, Agartala | | 15:20-15:30 |
| Interaction of ion with nanowire and graphene <i>Mr. A.K Behera</i> CIPET: IPT, Bhubaneswar | | 15:30-15:40 |
| Analytical formulation of r-glass/epoxy laminates at high and low temperature applications <i>Mr. Mariselvam P</i> University College of Engineering, Villupuram | | 15:40-15:50 |
| 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 | | 15:50-16:00 |
| Synthesis and application of strategically grafted copolymer of poly METAC and polyacrylamide onto xanthan gum for flocculating kaolin at low concentration <i>Mr. Subhadeep Chakraborty</i> University of Calcutta, Kolkata | | 16:00-16:10 |
| TEA BREAK | | 16:10 – 16:25 Hours |

| Hall – IV | | Circular Economy-I |
|-----------------------------|--|----------------------------|
| Session Chairpersons | | |
| INVITED TALK | | |
| | Title | Time (hrs.) |
| | 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 | 14:50-15:00 |
| | Intelligent Waste Management – Making Waste Management Better and Smarter <i>Mr. Salman Zafar</i> BioEnergy Consult, Delhi | 15:00-15:20 |
| CONTRIBUTORY PAPERS | | |
| | 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 | 15:20-15:30 |
| | 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 |
| | 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 | 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 |
| TEA BREAK | | 16:10 – 16:25 Hours |

EVENING SESSIONS: 16:25 –18:00 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 | | | |
| INVITED TALK | | | |
| Title | | Time (hrs.) | |
| Interpenetrating Polymer Network based Shape Memory Polymers with Multifunctional Properties <i>Dr. Debdutta Ratna</i> Naval Materials Research Laboratory (NMRL), Ambernath | | 16:25-16:50 | |
| Immobilization of polymers to glass, leather and related surfaces <i>Dr. Debasis Samanta</i> CSIR-Central Leather Research Institute (CLRI), Chennai | | 16:50-17:15 | |
| Industrial trends in the Poly Vinyl Chloride (PVC) Processing <i>Mr. Himalaya Vardikar</i> Pidilite Industries, Mumbai | | 17:15-17:30 | |
| CONTRIBUTORY PAPERS | | | |
| Feasibility of Extruded and Thermoformed Flame Retardant Thermoplastics for EV Battery Packs <i>Amol Avhad</i> SABIC Technology Center, Bengaluru | | 17:30-17:40 | |
| Annealing Temperature Dependent Evolution of β-phase of PVDF <i>Rajeswari K</i> Merit Arts and Science College, Tirunelveli | | 17:40-17:50 | |
| Polyetheramine modification of epoxidized natural rubber and its function as a humidity adhesive sensor <i>Aparna Guchait</i> Indian institute of technology, Kharagpur | | 17:50-18:00 | |
| Polyvinyl alcohol based real time monitoring antibacterial green films: An alternative to conventional packaging materials <i>Neenu K V</i> CUSAT, Kochi | | 18:00-18:10 | |

| Hall – II | | Product Design and Simulation-I |
|-----------------------------|--|--|
| Session Chairpersons | | |
| INVITED TALK | | |
| | Title | Time (hrs.) |
| | Capturing processing-induced material anisotropy in blow molding CAE simulation <i>Mr. Ratnesh Khandelwal</i> SABIC Research & Technology India Pvt Ltd, Bengaluru | 16:25-16:50 |
| | 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 Private Limited, Bengaluru | 16:50-17:15 |
| | Transition to Sustainable Energy: Design, Modeling and Simulations as Essential Enablers for Thermoplastic-Intensive Solutions <i>Mr. Bhaskar Patham</i> SABIC Research & Technology India Pvt Ltd, Bengaluru | 17:15-17:30 |
| 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 | 17:30-17:40 |
| | Quality Injection Moulded Product by Flow Technology <i>Mr. Rahul Patil</i> Varroc Polymer Limited, Aurangabad | 17:40-17:50 |
| | Numerical modelling of autoclave curing of a porous polymer composite <i>Mr. Bhisim Dewangan</i> Indian Institute of Technology, Kharagpur | 17:50-18:00 |

| Hall – III | | Advanced Polymer Characterization-I |
|----------------------|--|-------------------------------------|
| Session Chairpersons | | |
| INVITED TALK | | |
| | Title | Time (hrs.) |
| | 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 | 16:25-16:50 |
| | Development of Halloysite Nanotubes (HNTs) Incorporated High Performance Thermoplastic/Elastomer Blend Nanocomposites and their Characterization <i>Dr. Alok Sahu</i> CIPET: IPT, Raipur | 16:50-17:15 |
| | 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 | 17:15-17:30 |
| CONTRIBUTORY PAPERS | | |
| | Dynamic Optimization of Polypropylene Reactor through Melt Flow Index and Xylene Solubility Soft Sensors <i>Mr. Manjunatha Megur</i> MRPL, Bengaluru | 17:30-17:40 |
| | Spectroscopy Solutions in Polymer Chemistry- LCNMR, FTIR Microscope <i>Mr. Sandip S Jagtap</i> Labindia Analytical instruments Pvt Ltd, Bengaluru | 17:40-17:50 |
| | Exploring Mechanical, Thermal, Morphological and Rheological Properties of Polypropylene-Thermotropic Liquid Crystalline Polymer (Vectra B-950) Blends in Presence of Compatibilizer <i>Mr. Pijush Kanti Mandal</i> CIPET: IPT, Bhubaneswar | 17:50-18:00 |

| Hall – IV | | Sustainable & Green Polymeric Systems - II |
|----------------------|---|--|
| Session Chairpersons | | |
| INVITED TALK | | |
| | Title | Time (hrs.) |
| | Green blends of PLA/epoxidized neem oil : Study on mechanical and antimicrobial properties <i>Mr. K. A. Rajesh</i> CIPET: IPT, KOCHI | 16:25-16:50 |
| CONTRIBUTORY PAPERS | | |
| | Influence of nanocellulose on the mechanical and barrier characteristics of Moringa Oleifera fiber reinforced with PVA composite films <i>Ms. Kajal Mishra</i> Indian institute of technology, Roorkee | 16:50-17:00 |
| | Optimisation of carbon sources for novel cellulosic biopolymer production by Novacetimonas hansenii in static culture condition <i>Ms. Neelima S</i> Mahatma Gandhi University, Kottayam | 17:00-17:10 |
| | Lignin extraction from waste leaf of Ficus auriculata and its application as a potential packaging material <i>Ms. Thangsei Nengneihing Baite</i> Indian institute of technology, Guwahati | 17:10-17:20 |
| | Multi-vapor responsive biocompatible and programmable soft actuator <i>Ms. Sarah Ahmad Siraj</i> Indian institute of technology, Madras | 17:20-17:30 |
| | Vapour responsive and controlled actuation of biopolymer-based soft actuators <i>Mr. Vipin Kumar</i> Indian institute of technology, Madras | 17:30-17:40 |
| | Green Banana Peel Wastes to develop Biodegradable blend Film for Food Packaging Applications <i>Dr V H Sangeetha</i> CIPET: IPT, Lucknow | 17:40-17:50 |
| | Preparation and property analysis of extruded blown Guar gum/PBAT/PLA composite film <i>Mrs. Pooja Priyadarsini</i> CIPET: SARP- LARPM, Bhubaneswar | 17:50-18:00 |
| | Development of renewable resource based biodegradable mulch films: evaluation of properties <i>Mr. Manmath Parida</i> CIPET: SARP-LARPM, Bhubaneswar | 18:00-18:10 |

| POSTER SESSIONS | | |
|-----------------------------|---------------|------|
| DAY | Time (Hours) | HALL |
| March 17 th 2023 | 15.30 – 17.00 | V |

| DAY 2: March 18 th 2023 | |
|---|-----------------------------------|
| REGISTRATION | 08.00 am |
| HALL - I | PLENARY TALKS 09:00 – 12:15 Hours |
| Session Chairpersons | |
| Title | Time (hrs.) |
| A Recent Perspective on Solid Waste to Value: A Circular Materials Economy Approach <i>Prof. Mohini Sain</i> University of Toronto, Canada | 09:00-09:30 |
| Nanostructured Polysaccharides Materials for Water Purification <i>Prof. Sabu Thomas</i> Mahatma Gandhi University, Kerala | 09:30-10:00 |
| Sustainable food-grade packaging material for extended shelf life of foods-generation of Nanobiotic polymeric material with Protean Functionality <i>Prof. Naveen K Navani</i> Indian Institute of Technology, Roorkee | 10:00-10:30 |
| Design of novel multifunctional aerogel structures using synergy of additive manufacturing and sol-gel processing <i>Prof. Sadhan C. Jana</i> The University of Akron, USA | 10:30-11:00 |
| TEA BREAK 11:00 – 11:15 | |
| Sustainable Composites for a Circular Economy: Future is now in Mitigating Climate Change <i>Prof. Amar K Mohanty</i> University of Guelph, Canada | 11:15-11:45 |
| Bio Circular Economy in the Automotive Sector <i>Prof. Alcedies Lopez Leao</i> UNESP – Sao Paulo State University | 11:45-12:15 |

| HALL - I | KEYNOTE TALKS 12:15-13:30 Hours |
|---|---------------------------------|
| Session Chairpersons | |
| Title | Time (hrs.) |
| Design and Development of Barium Tungstate Nanorods dispersed Electroactive Polymer Nano fabrics for Piezoelectric and Triboelectric Energy Harvesting <i>Prof. S Anandan</i> National Institute of Technology, Karnataka | 12:15-12:40 |
| Electronic Waste Recycling <i>Dr. Peethambaram Parthasarathy</i> E-Parisaraa Pvt. Ltd, Bengaluru | 12:40-13:05 |
| 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 | 13:05-13:30 |
| LUNCH 13:30 – 14:30 Hours | |

| POST- LUNCH SESSIONS: 14:30 –16:10 Hours | | | |
|---|-----------------------|---|---|
| Hall - I | Hall – II | Hall – III | Hall – IV |
| Designing Polymers for Advanced Technologies-II | Circular economy - II | Engineering & Specialty Polymer Systems -II | Sustainable & Green Polymeric Systems - III |

| Hall - I | | Designing Polymers for Advanced Technologies-II | |
|---|--|---|-------------|
| Session Chairpersons | | | |
| INVITED TALK | | | |
| Title | | | Time (hrs.) |
| 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 | | | 14:50-15:00 |
| High Performance Polypropylene - Natural Fiber Composites for Automobile and other Applications <i>Mr. Manjunatha Begur</i> MRPL, Bengaluru | | | 15:00-15:20 |
| 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 | | | 15:20-15:40 |
| CONTRIBUTORY PAPERS | | | |
| Upgrading tyre pyrolysis oil fractions to lower smoke emissions using a cheap and novel adsorbent <i>Mr. Akhil Mohan</i> Indian Institute of Technology, Bombay | | | 15:40-15:50 |
| A comparison study on the degradation of methyl orange, malachite green, and methylene blue <i>Ms. Malavika Sajith</i> Amrita Vishwa Vidyapeetham, Kollam | | | 15:50-16:00 |
| Chitosan Grafted Polyacrylonitrile working as a compatibilizer in PVA/PEG Blend for membrane applications <i>Dr. Neetha John</i> CIPET: IPT, KOCHI | | | 16:00-16:10 |
| TEA BREAK | | 16:10 – 16:25 Hours | |

| Hall – II | | Circular economy -II |
|---|--|-----------------------------|
| Session Chairpersons | | |
| INVITED TALK | | |
| Title | | Time (hrs.) |
| 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 | | 14:50-15:00 |
| Recycling: hydroprocessing end of use polymers to diesel <i>Dr. Mangesh V L</i> K L Deemed to be University Green Fields, Vaddeswaram | | 15:00-15:20 |
| 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 | | 15:20-15:30 |
| Development of Banana Pseudo Stem-based Paper Products: Substitution to Wood-based Paper Products <i>Mr. M. P. Chandresh</i> JSSTI Campus, Mysuru | | 15:30-15:40 |
| Hydrophobic micro-porous membrane preparation from waste PVDF pipes for Desalination applications <i>Ms. Vibha Goswami</i> CIPET: IPT, Jaipur | | 15:40-15:50 |
| Innovative article on natural 'scrubber' <i>Mr. H.M. Viswanatha Sastry</i> CIPET: CSTS, Mysore | | 15:50-16:00 |
| Utilization of Industrial Waste as Reinforcement for Electronic Packaging Substrate <i>Ms. Swati Sharma</i> National Institute of Technology, Jaipur | | 16:00-16:10 |
| TEA BREAK | | 16:10 – 16:25 Hours |

| Hall – III | | Engineering & Specialty Polymer Systems – II |
|-----------------------------|---|---|
| Session Chairpersons | | |
| INVITED TALK | | |
| | Title | Time (hrs.) |
| | Emulsion Polymerization of SBR-Nanocomposites with Filler Nano Carbon Black <i>Dr. Amaresh Mishra</i> Sambalpur University, Sambalpur | 14:30-14:50 |
| | Development of Anion Exchange membrane based Fuel Cell and Electrolyzer <i>Dr. Ramya Krishnan</i> ARCI, Chennai | 14:50-15:00 |
| | Design and Development of Functional Hybrid Conducting Polymer Nanostructures in Solar Fuel Devices <i>Dr. Srabanti-Ghosh</i> CSIR – Central Glass and Ceramic Research Institute, Kolkata | 15:00-15:20 Online |
| CONTRIBUTORY PAPERS | | |
| | Green Proton Battery based on PVA, Proline and Ammonium Nitrate <i>Ms. Hemalata R</i> V.V.Vanniaperumal College for Women, Virudhunagar | 15:20-15:30 |
| | Self-Healable Butyl Rubber via Dual Crosslinking System <i>Ms. Shrabana Sarkar</i> INDIAN INSTITUTE OF TECHNOLOGY Kharagpur | 15:30-15:40 |
| | A study on usage of various plastics for toy applications <i>Ms. Aswathy NR</i> CIPET: IPT - Bhubaneswar | 15:40-15:50 |
| | Development and Analysis of Plasma treated bio derived fillers reinforced flame retardant Thermoplastic composites <i>Mr. Malaya Ranjan Parida</i> CIPET: SARP LARPM- Bhubaneswar | 15:50-16:00 |
| | Non-Platinum-Based Oxygen Reduction Catalysts for Microbial Fuel Cells <i>Dr. Kingshuk Dutta</i> CIPET: SARP APDDRL - Bengaluru | 16:00-16:10 |
| TEA BREAK | | 16:10-16:25 |

| Hall – IV | | Sustainable & Green Polymeric Systems - III |
|--|--|---|
| Session Chairpersons | | |
| INVITED TALK | | |
| Title | | Time (hrs.) |
| Synthesis of Biopolymers based novel Poly(AAc-NaAlg-SH) Superabsorbent hydrogels for Sustainable development <i>Prof. Reena Singhal</i> HBTU Kanpur, India | | 14:30-14:50 |
| Biodegradable biopolymers from red seaweed for packaging and single-use applications <i>Mr. Hemant Giri</i> Sea6 Energy Pvt Ltd, Bengaluru, Karnataka. | | 14:50-15:00 |
| 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 | | 15:00-15:10 |
| 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 | | 15:20-15:30 |
| 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-19 | | 15:30-15:40 |
| A novel biodegradable alternative for dental polymer <i>Dr. Niha Naveed</i> Saveetha Institute of Medical & Technical science, Chennai | | 15:40-15:50 |
| Influence of multifunctional epoxy chain extender on the properties of PLA/PBAT blend films <i>Smrithy P B</i> Defence Food Research Laboratory (DFRL), Mysuru | | 15:50-16:00 |
| 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 | | 16:00-16:10 |
| TEA BREAK | | 16:10-16:25 |

| POSTER SESSIONS | | |
|-----------------------------|---------------|------|
| DAY | Time (Hours) | HALL |
| March 18 th 2023 | 15.30 – 17.00 | V |

EVENING SESSIONS: 16:25 –18:00 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 | |
|-----------------------------|--|--|--------------------|
| <i>Session Chairpersons</i> | | | |
| INVITED TALK | | | |
| | | Title | Time (hrs.) |
| | | Emulsion Polymerization of SBR-Nanocomposites with Filler Nano Carbon Black <i>Dr. W. B. Gurnule</i> Kamla Nehru Mahavidyalaya, Nagpur | 16:25-16:50 |
| | | Smart Polymer and their Applications <i>Dr. H S Patel</i> Sardar Patel University, Anand | 16:50-17:15 |
| | | An effective technique for dispersing silica in the matrix of natural rubber by adding a pre-vulcanized gel <i>Mr. Abhjit Bera</i> Indian Institute of Technology, Kharagpur | 17:15-17:25 |
| | | Enzymatic polymer nanocomposite electrode for the electrochemical biosensing of cholesterol <i>Ms. Neethu Antony</i> CIPET: IPT- KOCHI | 17:25-17:35 |
| | | Alginate electrospun nanofiber membrane for adsorption and separation of cationic dye and heavy metal <i>Mr. Devendra Rai</i> Indian Institute of Technology, Roorkee | 17:35-17:45 |
| | | Effect of Expandable Graphite on Mechanical, Thermal and Flame retardant Properties of Fluorocarbon Rubber <i>Ms. Dhanya Vijayan</i> CIPET: IPT- KOCHI | 17:45-17:55 |
| | | pH-responsive bilayer films with engineered non-morphing point of actuation for controlled model drug release <i>Mr. Amit kumar</i> Indian institute of technology, Madras | 17:55-18:05 |
| | | Development of Various C2 substituted Benzimidazolium Cations as Highly Conductive and Stable Polyphenylene Oxide Membranes for Alkaline Fuel Cell Applications: Theoretical and Practical Approach. <i>Mr. Nagadarshan Swanthal</i> Siddaganga Institute of Technology, Tumkur | 18:05-18:15 |
| | | Antioxidant, Anthelmintic and Swelling Behaviour of Poly (N-tert-amylacrylamide-co-Acrylamide/Sodium Acrylate) Gold Nanocomposite Hydrogels <i>Ms. E. Kayalvizhy</i> PSGR Krishnammal College for Women, Coimbatore | 18:15-18:25 |

| Hall – II | | Product Design and Simulation-II |
|--|--|----------------------------------|
| Session Chairpersons | | |
| INVITED TALK | | |
| Title | | Time (hrs.) |
| 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 | | 16:25-16:50 |
| 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 | | 16:50-17:15 |
| Sustainable & Agile Plastic Components Production by Integration of Conventional & Additive Manufacturing Methods <i>Mr. Senthilmurugan B</i> Bosch Global Software Technologies Private Limited, Bengaluru | | 17:15-17:35 |
| 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 | | 17:35-17:45 |
| Comparison of mechanical properties and nutrients values of food ingredients by Graphene doped microwave utensils vs normal utensil <i>Mr. Pragyan Jain</i> Gyan Ganga Institute of Technology and Sciences, Jabalpur | | 17:45-17:55 |
| Solvent responsive 4D printing of soft structures <i>Ms. Smruti Parimita</i> Indian Institute of Technology, Madras | | 17:55-18:05 |

| Hall – III | | Advanced Polymer Characterization -II |
|----------------------|---|---------------------------------------|
| Session Chairpersons | | |
| INVITED TALK | | |
| | Title | Time (hrs.) |
| | 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 | 16:25-16:50 |
| | Advancements of Polymeric Membranes: science and technology, Materials and Applications <i>Prof. G. Arthanareeswaran</i> National Institute of Technology, Tiruchirappalli | 16:50-17:15 |
| 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 | 17:15-17:25 |
| | Engineering Properties of PA80/EPDM Blends <i>Mr. Sujith Nadarajan</i> Rubber research Institute of India, Kottayam | 17:25-17:35 |
| | Erosion response of ramie fiber epoxy based composites filled with titanium oxide <i>Mr. Sourav Kumar Mahapatra</i> National Institute of Technology, Rourkela | 17:35-17:45 |
| | Comparison study of thermal and chemical analysis of different PE raw materials <i>Dr. Swarnalata Sahoo</i> CIPET: IPT, Bhubaneswar | 17:45-17:55 |
| | 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 | 17:55-18:05 |

| Hall – IV | | Engineering & Specialty Polymer Systems -III |
|----------------------|---|--|
| Session Chairpersons | | |
| INVITED TALK | | |
| | Title | Time (hrs.) |
| | Conducting polymer decorated with mixed metal oxide-based multifunctional nanocomposites <i>Dr. Harish Kumar</i> Central University of Haryana, Jaat | 16:25-16:50 |
| | Charge transport properties of mixed metal halide perovskite Semiconductors <i>Dr. Satyaprasad Sennayak</i> National Institute of Science Education and Research, Bhubaneswar | 16:50-17:15 |
| CONTRIBUTORY PAPERS | | |
| | Textile wastewater dye treatment by fabricated Ti/RuO₂ anode: Process optimization and kinetic study <i>Ms. Monica Ranga</i> Indian institute of technology, Roorkee | 17:15-17:25 |
| | 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 | 17:25-17:35 |
| | Polyvinylidene fluoride (PVDF)-polyethylene oxide (PEO) polymer blend based solid electrolyte for sodium ion battery application <i>Mr. Ramanujam BTS</i> Amrita Vishwa Vidyapeetham, Kollam | 17:35-17:45 |
| | Fabrication and characterization of thiolated functionalised PVA for buccal film drug delivery <i>Ms. Jebarani J</i> Madras Institute of Technology, Chennai | 17:45-17:55 |
| | Preparation and characterization of quinary semiconductor for potential energy application <i>Mr. Manoj Kumar Mallick</i> CIPET: SARP LARPM, Bhubaneswar | 17:55-18:05 |
| | Chemical Recycling and Value Addition of Fiber Reinforced Polymer Composites <i>Dr. Sonalee Das</i> CIPET: SARP APDDRL, Bengaluru | 18:05-18:15 |