

## International Conference

On

**“ADVANCEMENT IN SUSTAINABLE MATERIALS FOR ENERGY AND ENVIRONMENT” (ASMEE-2023)**

October 6<sup>th</sup> & 7<sup>th</sup>, 2023

### Program Schedule

Day 1: 6 <sup>th</sup> October, 2023	
Registration	8:00 hrs onwards
Inaugural Session	9:15-10:15 hrs
Keynote Address: Prof. K. K. Pant, Director, IIT Roorkee	10:15-11:00 hrs
High Tea	11:00-11:15 hrs
Session-I	
Venue (Hall-I, 3 <sup>rd</sup> Floor)	11:15-13:15 hrs
Session Chairperson: Dr. Prakash Biswas, Professor, IIT Roorkee	

Invited Talks	Time
<b>Dr. D. S. Bag,</b> Scientist-G, DMSRDE Kanpur <i>“Smart and Self-healing Materials: Sustainable Materials Solution”</i>	<b>11:15-11:45hrs</b>
<b>Dr. Vimal Katiyar,</b> Professor, IIT Guwahati <i>“Microplastics: Another Threat for Human Health?”</i>	<b>11:45-12:15 hrs</b>
<b>Dr. Sanjib Banerjee,</b> Associate Professor, IIT Bhilai, Raipur <i>“Functional Porous Polymers for CO<sub>2</sub> Capture Applications”</i>	<b>12:15-12:45 hrs</b>
<b>Prof. N.V. Ramana Rao</b> Director, National Institute of Technology Raipur <i>“Recent Advances in Concrete and Sustainable materials for Construction”</i>	<b>12:45-13:15 hrs</b>
<b>Lunch Break</b>	<b>13:15-14:00 hrs</b>

<b>Session-II</b>	
<b>Venue (Hall-I, 3<sup>rd</sup> Floor)</b>	<b>14:00-16:20 hrs</b>
<b>Session Chairpersons: Dr. D. S. Arya, Professor, IIT Roorkee Dr. Amit Keshav, Associate Professor, NIT Raipur</b>	
Invited Talks	Time
<b>Dr. Kumar Patchigolla,</b> Reader, Carbon Capture and Storage Centre, Cranfield, Bedfordshire <i>“Net Zero Engineering: Materials Perspective”</i>	<b>14:00-14:30 hrs</b>
<b>Dr. Naveen Navani,</b> Professor, IIT Roorkee <i>“An Efficient Recyclable Catalytic Nano Platform for the Detection, Removal and Disintegration of Xenobiotics in Water”</i>	<b>14:30-15:00 hrs</b>

<i>Contributory Lectures (Theme: Nano-composites &amp; Smart Polymeric Materials)</i>	15:00-16:20 hrs
<b>Pranali Nikam,</b> College of Dairy Science & Food Technology, DSVCKV, Raipur <i>“Gold Nanoparticles based Sensing System for Colorimetric Detection of Hg<sup>++</sup> in Water and Milk Samples”</i>	15:00-15:10 hrs
<b>Dr. Bhawana Jain,</b> Siddhachalam Laboratory, Raipur <i>“Antibacterial and Photocatalytic Degradation via Zn-B-Cyclodextrin Nanocomposite”</i>	15:10- 15:20 hrs
<b>Dr. Sharda Bharti,</b> NIT Raipur <i>“Synthesis And Characterization of Bimetallic Cu/Zn Chitosan Nanocomposite for Enhanced Antimicrobial Activity”</i>	15:20- 15:30 hrs
<b>Dr. Shashi Kant Tiwari,</b> Indira Gandhi KrishivishvaVidyalaya, Raipur, Chhattisgarh (C.G.) <i>“Bound Rubber Properties of Chlorobutyl Elastomer Nanocomposites: Effect of Carbon Nano-Graphite Loading and Storage Time”</i>	15:30- 15:40 hrs
<b>Dr. Reecha Sahu,</b> Amity Institute of Biotechnology, Amity University, Chhattisgarh <i>“Fabrication of Keratin-ZnO Nanoparticle Nanogel as a Sustainable Wound Dressing Material”</i>	15:40- 15:50 hrs
<b>Sarvaree Bano,</b> Rungta College of Engineering & Technology, Bhilai <i>“Environmental and Medicinal Applications of Organically Synthesized Cu and CuO Nanoparticles”</i>	15:50- 16:00 hrs
<b>Akansha Singhai,</b> Amity University, Raipur <i>“Revolutionizing Wound Healing: Harnessing the Power of Nanogels”</i>	16:00-16.10 hrs

<b>Sapna Jain,</b> College of Dairy Science & Food Technology, DSVCKV, Raipur <i>“Nanotechnology Based Edible Packaging in Food Industry: A Sustainable Approach”</i>	<b>16:10-16:20 hrs</b>
<b>Venue (Hall-III, 2<sup>nd</sup> Floor)</b>	<b>14:00-16:10 hrs</b>
<b>Session Chairpersons: Dr. Vimal Katiyar, Professor, IIT Guwahati,          Dr. Smita Mohanty, Principal Scientist, CIPET:LARPM, Bhubaneswar</b>	
<b>Invited Talks</b>	<b>Time</b>
<b>Dr. O. P. Pandey,</b> Professor, Thapar University, Patiyala <i>“Waste Polymers – A Source for Energy Devices”</i>	<b>14:00-14:30 hrs</b>
<b>Dr. Bhoje Gowd E,</b> Senior Principal Scientist & Professor, CSIR-NIIST, Trivandrum <i>“Hierarchically Architected Semicrystalline Polymer Aerogels”</i>	<b>14:30-15:00 hrs</b>
<b>Contributory Lectures (Theme: Materials from Renewable Feedstock)</b>	<b>15:00-16:10 hrs</b>
<b>Dr. K. A. Rajesh,</b> CIPET:IPT, Kochi <i>“Additive Manufacturing of Sustainable Products Based on Polylactic Acid/Thermoplastic Ployurethane Compatibilised Blends”</i>	<b>15:00-15:10 hrs</b>
<b>Dr. Parv Nayak,</b> College of Food Technology, IGKV, Raipur Chhattisgarh <i>“Possibilities of Developing Biodegradable Packaging Film from Mango Kernel Starch: A Review”</i>	<b>15:10- 15:20 hrs</b>
<b>Dr. Kush Kumar Nayak,</b> Amity Institute of Biotechnology, Amity University Chhattisgarh <i>“Eco-Friendly Tea Bag: Sustainable Paper-Based Sachets from Banana Stem and Grasses”</i>	<b>15:20- 15:30 hrs</b>

<b>Baba Linkanmani Sahoo,</b> CIPET: SARP-LARPM, Bhubaneswar <i>“Sustainable polymeric films: Exploring the Effects of Chain Extender and Nucleating Agent on Polylactic acid (PLA) and Polyhydroxybutyrate (PHB) based Blown Films”</i>	15:30- 15:40 hrs
<b>Khrsheed Ahmed,</b> Indira Gandhi National Tribal University, Amarkantak, MP <i>“Green Synthesis of <math>\text{SnO}_2</math> and Au Doped <math>\text{SnO}_2</math> Via Delonix Regia Flower, Characterization and Its Electrochemical Studies”</i>	15:40- 15:50 hrs
<b>Abhishek Chandel,</b> Thapar Institute of Engineering and Technology <i>“Conversion of <math>\text{ZrO}_2</math> to <math>\text{ZrC}</math> using waste polymer as Carbon Source”</i>	15:50- 16:00 hrs
<b>Bhanendra Sahu,</b> IIT Bhilai <i>“Functional Diblock Copolymers with Dual Responsiveness Enabled by Recyclable photoRDRP”</i>	16:00-16:10 hrs

<b>Tea Break</b>	16:30-16:45 hrs
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<b>Session-III</b>	
<b>Venue (Hall-I, 3<sup>rd</sup> Floor)</b>	<b>16:45-17:55 hrs</b>
<b>Session Chairpersons: Dr. Bhoje Gowd E, Senior Principal Scientist &amp; Professor, CSIR-NIIST, Trivandrum</b> <b>Mr. Sumit Kumar, Head, BIS, Raipur</b>	
<b>Invited Talks</b>	<b>Time</b>
<b>Mr. Rajeev Dwivedi</b> Director (TTRC), Lohia Corp, Kanpur <i>“Plastics Waste recycling – Need for Standardization”</i>	<b>16:45-17:15 hrs</b>
<b>Contributory Lectures (Theme: Waste Management &amp; Recycling)</b>	
<b>17:15-17:55 hrs</b>	

<b>Dr. S C Shit,</b> Ex-Principal Director, CIPET <i>“The Scientific Approaches to Mechanical Recycling of Plastics Waste”</i>	<b>17:15-17:25 hrs</b>
<b>Dr. P. C Padhi,</b> CIPET: IPT, Bhubaneswar <i>“An Experimental Investigation of Wood Polymer Composite (WPC) for Manufacturing "LOUVERS" using Recycled Polypropylene (RPP) as Polymer Matrix”</i>	<b>17:25-17:35 hrs</b>
<b>Mahendra Shrivastava,</b> School of Energy and Environment Management, RGPV, Bhopal <i>“Recent Development in Biomass as A Fuel: A Review”</i>	<b>17:35-17:45 hrs</b>
<b>Selvi K,</b> CIPET, IPT-Kochi <i>“Conjugated Polymer Nanoparticles for Pathogen Detection for Real-time Monitoring of Water Quality”</i>	<b>17:45-17:55 hrs</b>
<b>Venue (Hall-III, 2<sup>nd</sup> Floor)</b>	<b>16:45-17:55 hrs</b>
<b>Session Chairperson : Dr. Naveen Navani, Professor, IIT Roorkee Dr. Manisha Agrawal, Professor, RCET, Bhilai</b>	
<b>Invited Talks</b>	<b>Time</b>
<b>Dr. G. L. Devnani,</b> Associate Professor, HBTU Kanpur <i>“Environment Friendly Natural Fiber based Green Composites: Future Materials for Sustainable Development”</i>	<b>16:45-17:15 hrs</b>
<b>Contributory Lectures (Theme: Energy &amp; Environment)</b>	<b>17:15-17:55 hrs</b>
<b>Dr. Rajesh Panda,</b> CIPET: IPT, Ahmedabad <i>“The Influence of Phenalkamine on the Structural and Mechanical Properties of Epoxy Systems with a Focus on Tribological Behavior”</i>	<b>17:15-17:25 hrs</b>
<b>Dr. G Nag Bhargavi,</b> Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur <i>“Investigation of Structural, Optical And Dielectric Properties of Europium and Gadolinium</i>	<b>17:25-17:35 hrs</b>

<i>Modified Barium Zirconium Titanate Ceramic</i>	
<b>Kowsika Murugesan,</b> CIPET: SARP- APDDRL, Bengaluru <i>“Super Capacitive Behaviour of Cuo/Polypyrrole Nanocomposite Decorated with Zinc Oxide Nanoparticle”</i>	<b>17:35-17:45 hrs</b>
<b>Kukil Sharma,</b> NIT, Raipur <i>“Integration of Sustainable Materials and Architectural Design for Energy-Efficient Buildings”</i>	<b>17:45-17:55 hrs</b>

<b>Venue (Hall-I, 3<sup>rd</sup> Floor)</b>	
<i>Session on Positive Thinking Techniques by Dr. Jai Gopal Goel, Director, Indian Institute of Thinking Technology, Panchkula Haryana</i>	<b>18:00-18:45 hrs</b>
<b>Sangeet Sandhya followed by Dinner</b>	<b>19.00 onwards</b>

<b>Poster Session (Hall-II, 3<sup>rd</sup> Floor)</b>	
<b>14:00-17:30 hrs</b>	

<b>Industry Connect (Hall-IV, 2<sup>nd</sup> Floor)</b>	
<b>Panel Chairman: Dr. Sushil Kumar Verma, Former Director General, CIPET</b>	
<b>12:00-13:00 hrs</b>	

<b>Incubator / Start-up Meet (Hall-IV, 2<sup>nd</sup> Floor)</b>	
<b>Panel Chairman: Dr. Prakash Biswas, Professor, IIT Roorkee</b>	
<b>15:00-16:00 hrs</b>	

## Posters

Name of Presenter	Title of Paper
<b>Dr. Ravishankar Lanjhiyana</b> <i>IGKV Raipur</i>	A Review on Waste Tyres Through Different Ways in Horticulture
<b>Ankush Koundal</b> <i>CIPET:IPT, Ahmedabad</i>	Replacement of Conventional Wood Pulp with Agricultural Waste for Rayon Fiber Production
<b>Sarang D., Ginni Gitika, C. K. Paikra, Pophaly, A.K. Tripathi</b> <i>College of Dairy Science &amp; Food Technology, DSVCKV, Raipur</i>	Microbiological Safety of Edible Products: Sustainability of Food for Human Consumption
<b>Harshvardhan Rajpurohit</b> <i>CIPET:IPT, Ahmedabad</i>	Polymeric Based Biomaterial Used as Orthopaedics and Dental Applications: A Review
<b>Jivan Jyoti</b> <i>Kalinga University</i>	Enhancing the Property of Flexible Pavement (FP) With the Application of Waste Plastic Materials(WPM)
<b>KRITIKA</b> <i>CIPET:IPT, Ahmedabad</i>	Environmentally Sustainable Wastewater Treatment and Power Generation Utilizing Semi-Crystalline Copper Oxide/Sodium Alginate Grafted Polypyrrole Composite
<b>Mayank</b> <i>CIPET:IPT, Ahmedabad</i>	Extraction of Carboxymethylcellulose from Water Hyacinth as a Reinforcement for Bio Based Plastic
<b>Ms. Payal Sahu</b> <i>Amity University Chhattisgarh, Raipur</i>	Biochar Industry: The Tool of Climate Change Mitigation to Circular Bioeconomy Approach
<b>Ruchi Tomar</b> <i>CIPET:IPT, Ahmedabad</i>	Assessing the Influence of Calcium Carbonate in Recycled Glass Fiber-Reinforced Polypropylene (GFRPP) Composites
<b>Vishwajeet Kshirsagar</b> <i>CIPET:IPT, Ahmedabad</i>	To Manufacture a Biodegradable Film by Using Sugarcane Bagasse as a Raw Material
<b>Sankalp Tiwari</b> <i>Kalinga University Raipur</i>	Fabrication and Comparison of Wear Rate of Al <sub>2</sub> O <sub>3</sub> And ZrO <sub>2</sub> Based Ceramic Composite Material
<b>Ujala</b> <i>CIPET:IPT, Ahmedabad</i>	Graphene Quantum Dots: Features of Photoluminescence (PL of GQD)



<b>Tusharkanta Nayak,</b> <i>CIPET:SARP-LARPM, Bhubaneswar</i>	Development and Property Analysis of Polyurethane/Strontium Titanium Oxide Composite for Biomedical Applications
<b>Vargobi Mukherjee,</b> <i>Amity University Chhattisgarh, Raipur</i>	Exopolysaccharide (EPS) is an emerging tool for bioremediation in heavy metals absorption

<b>Day 2:7<sup>th</sup> October, 2023</b>	
<b>Registration</b>	<b>8:00 hrs onwards</b>
<b>Session-I</b>	
<b>Venue (Hall-I, 3<sup>rd</sup> Floor)</b>	<b>9:00-11:00 hrs</b>
<i>Keynote Address: Dr. Ajay K. Dalai,</i> Professor, University of Saskatchewan, Saskatoon <i>“Novel Activated Carbon from Spent Coffee Grounds: Effects of Textural Properties and Surface Chemistry”</i>	<b>9:00- 10:00 hrs</b>
<b>Invited Talks/ Lectures</b>	<b>Time</b>
<b>Session Chairpersons: Dr. D. S. Bag, Scientist G, DMSRDE Kanpur</b>	
<b>Dr. Sushanta Banerjee,</b> Professor, IIT Kharagpur <i>“High-Performance Polymer-Membranes for Clean and Sustainable Energy: Gas Separation and Fuel-Cell Applications”</i>	<b>10:00-10:30hrs</b>
<b>Mr. Sanjeev Kumar Saxena,</b> General Manager, NTPC Raipur <i>“Sustainable Ash and FGD Gypsum Utilization in NTPC”</i>	<b>10:30-11:00hrs</b>
<b>Tea Break</b>	<b>11:00-11:15 hrs</b>

**Session-II**

Venue (Hall-I, 3 <sup>rd</sup> Floor)	11:15-13:15 hrs
Session Chairperson: Dr. Sushanta Banerjee, Professor, IIT Kharagpur Dr. G. L. Devnani, Associate Professor, HBTU, Kanpur	
Invited Talks	Time
<b>Dr. Babasaheb R. Sankapal,</b> Professor, VNIT Nagpur <i>“ Smart Advanced Nanomaterials : Device Grade Colourful Solar Cell And Flexible Solid State Supercapacitor ”</i>	11:15-11:45 hrs
<b>Dr. Smita Mohanty,</b> Principal Scientist, CIPET LARPM, Bhubaneswar <i>“Plastics Carry Bags- A Preference or Choice:Life Cycle Assessment (LCA) in Indian Prospective and Methodological Decisions ”</i>	11:45-12:15 hrs
<b>Dr. Samir Bajpai,</b> Professor, NIT Raipur <i>“Sustainable Technologies for Cement Manufacturing ”</i>	12:15-12:45 hrs
<b>Contributory Lectures (Theme: Nano-composites &amp; Smart Polymeric Materials)</b>	
<b>Dr. Mehar Afroz Qureshi,</b> College of Dairy Science and Food Technology, DSVCKV, Raipur <i>“Application of Nanotechnology in Food And Dairy Processing:AnOverview ”</i>	12:45-12:55 hrs
<b>Kamlesh Kumar Dhritlahre,</b> ICAR-CIFE, Mumbai <i>“Preparation of Chitosan Nanoparticles – A Novel Approach ”</i>	12:55-13.05 hrs
<b>Sagar Kumar Rajak,</b> NIT Raipur <i>“Green Synthesis of MgO Nanoparticles and its Application in Degradation of Methyl Violet Dye ”</i>	13:05-13.15 hrs
Venue (Hall-III, 2 <sup>nd</sup> Floor)	11:15-13:15 hrs

Session Chairperson: Mr. Umesh Chitlangia, Ex. Chairman CII, Chhattisgarh Mr. B. Ravi, Director & Head, CIPET:SARP, ARSTPS, Chennai	
Invited Talks	Time
<b>Ms. Bonya Mukharjee,</b> General Manager, SAIL <i>“Emerging Technologies for Confronting Environmental Impact by Steel Industries”</i>	11:15-11:45 hrs
<b>Mr. Krishna Joshi,</b> Managing Director, Wavin Vectus, Orbia Group <i>“Sustainable Plumbing &amp; Infra”</i>	11:45-12:15 hrs
<b>Contributory Lectures (Theme: Materials from Renewable Feedstock)</b>	
<b>Dr. Ganesh Prasad Shukla &amp; Pranav Gupte,</b> GGU, Bilaspur <i>“Exploring the Relationship Among Drivers and Green Technologies: A Theoretical Study”</i>	12:15-12:25 hrs
<b>Dr. B. L. Sinha,</b> Indira Gandhi KrishivishvaVidyalaya, Raipur <i>“Energy Utilization Pattern Of Muskmelon (Cucumismelo) Production Under Drip Irrigation System”</i>	12:25-12.35 hrs
<b>Stephen Jose,</b> CIPET: SARP- APDDRL, Bengaluru <i>“Green Synthesize of ZnO Nanoparticles from Lemon Peel and its Photophysical Characteristics for Light Emitting Diodes (LEDs)”</i>	12:35-12.45 hrs
<b>Roshni Pattanayak,</b> CIPET:SARP-LARPM, Bhubaneswar <i>“A Sustainable Development of Modified Cellulose Acetate Formulation For Health and Hygiene Application”</i>	12:45-12.55 hrs
<b>Malaya Ranjan Parida,</b> SARP-LARPM::CIPET, Bhubaneswar <i>“Plasma Treated Bio Derived Fillers Reinforced Flame Retardant Thermoplastic Composites: A Study on Mechanical, Thermal, Morphological, Acoustic and Flammability Characteristics”</i>	12:55-13.05 hrs

<b>Lunch Break</b>	<b>13:15-14:00 hrs</b>
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<b>Session-III</b>	
<b>Venue (Hall-I, 3<sup>rd</sup> Floor)</b>	<b>14:00-15:00 hrs</b>
<i>Contributory Lectures (Theme: Waste Management &amp; Recycling)</i>	
<b>Session Chairperson: Dr. Swasti Sthapak, Associate Professor, NIT Raipur</b> <b>Dr. Anjali Oudhia , Professor, Govt Nagarjuna PG College of Science, Raipur</b>	
<b>Satyabrata Sahoo,</b> Ravenshaw University, Cuttack <i>“Evaluating the Effects of Sterilization Techniques on Biomedical Plastic Wastes: Implication for Recycling”</i>	<b>14:00-14:10 hrs</b>
<b>Rakhi Pal,</b> CIPET: IPT, Bhubneshwar <i>“To Produce A Polyethylene Terephthalate (PET) from Polyethylene Terephthalate (PET) Waste By Chemical Recycling Process”</i>	<b>14:10-14:20 hrs</b>
<b>Tanu Nirwan,</b> CIPET: IPT, Ahmedabad <i>“Upcycling of Citrus Fruit Pomace Biowaste via Chemical Treatment”</i>	<b>14:20-14:30 hrs</b>
<b>Soumyadeep Bera,</b> Centre for Interdisciplinary Sciences, (JISIASR), Kolkata <i>“Effectiveness of TMTD in Selective Devulcanization of EPDM Wastes: An Energy Efficient Approach”</i>	<b>14:30-14:40 hrs</b>

<b>Mrs. Ambika Joshi,</b> Assistant Professor, CIPET Raipur <i>“Elastomer (NBR/SBR)Based Sustainable Materials for Defense Applications”</i>	<b>14:40-14:50 hrs</b>
<b>Dr. Jitendra Sinha,</b> IGKV Raipur <i>“Innovative Strategy for Environment Friendly Reuse of Food Packets”</i>	<b>14:50-15:00 hrs</b>
<b>Venue (Hall-III, 2<sup>nd</sup> Floor)</b>	<b>14:00-15:00 hrs</b>
<b>Contributory Lectures (Theme: Energy &amp; Environment)</b>	<b>14:00-15:00 hrs</b>
<b>Session Chairperson: Dr. A. K. Tripathi, Dean, College of Dairy Science &amp; Food Technology, Raipur</b> <b>Dr. R. Joseph BenSingh, Senior Scientist &amp; Head, CIPET:SARP -APDDRL, Bengaluru</b>	
<b>Mr. Rijan Sahu &amp; Mr. Gaurav Tamrakar,</b> Kalinga University, Raipur <i>“Analysis of Renewable Source of Energy Which is Biodiesel Blended With Diesel”</i>	<b>14:00-14:10 hrs</b>
<b>Aanchal Chandrakar,</b> S. V. College of Agril. Engg. and Tech & RS, IGKV Raipur <i>“Design and Development of Solar Powered Smart Vertical Tower Hydroponics System using Nutrient Film Technique”</i>	<b>14:10-14:20 hrs</b>
<b>Manoj Kumar Mallick,</b> SARP-LARPM:CIPET, Bhubaneswar <i>“Randomly Embedded Quaternary Metal in Porous Activated Carbon As A Counter Electrode for Dye-Sensitized Solar Cells Under Dim-Light Effect”</i>	<b>14:20-14:30 hrs</b>
<b>Shailoneil Sahu,</b> NIT Raipur <i>“Blue-green Infrastructure– An Opportunity for Sustainable India”</i>	<b>14:30- 14:40 hrs</b>
<b>Pooja Priyadarsini,</b> CIPET:SARP-LARPM, Bhubaneswar <i>“Preparation and Characteristic Analysis of Extruded Blown Guargum Based PBAT/PLA Composite Film”</i>	<b>14:40-14:50 hrs</b>

<b>Swati Kumari,</b> CIPET: IPT, Ahmedabad <i>“Sustainable Carbon Filler for Rubber Compounds with Comparable Mechanical Properties to Standard Carbon Black”</i>	<b>14:50-15:00 hrs</b>
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<b>Poster Session (Hall-II, 3<sup>rd</sup> Floor)</b>
<b>11:15-13:00 hrs</b>

<b>Posters</b>	
Name of Presenter	Title of Paper
<b>Aditya Sharma</b> <i>CIPET: IPT, Ahmedabad</i>	Thermo-Mechanical Exploration of PEEK and Surface Activated PI-Sized Carbon Fiber (PICF) with Atmospheric Dielectric Barrier Discharge (ADBBD)
<b>Vismay Pujari</b> <i>CIPET: IPT, Ahmedabad</i>	Study of Hygroscopicity on the Mechanical Properties of Natural Functionalized Sisal Fiber
<b>Sudhanshu Kumar, Vinayak Shukla</b> <i>CIPET: IPT, Ahmedabad</i>	Enhancing Mechanical, Thermal, and Morphological Properties of PP/POM Blend Nanocomposites Through Nanoclay Incorporation
<b>Pranshula Panigrahi</b> <i>CIPET: SARP-LARPM, Bhubaneswar</i>	Probing Diketopyrrolopyrrole (Dpp) Materials via Substitute Identity: A Comprehensive Electrochemical and Photophysical Study
<b>Neha Singla</b> <i>CSIR-National Physical Laboratory</i>	Synthesis of Hydrophobic and Electroactive Polyaniline Based Coatings for Anticorrosion Application
<b>Rahul Saha</b> <i>CSIR-National Physical Laboratory</i>	Synthesis of E-Waste Derived Self-Cleaning Coating Compositions
<b>Pooja Mohapatra</b> <i>Burla Orissa</i>	Synthesis and Analysis of PVDF/PANI Nanocomposites Enhanced with Mxene/F-SWCNT Hybrid Nanofillers for Electromagnetic Interference Shielding and Electrochemical Device Applications

<b>Sumi Vincent</b> <i>CIPET:SARP-LARPM,Bhubaneswar</i>	Sustainable and Antibacterial Chitosan-Cellulose-Based 3D Printable Composites for Potential Healthcare Applications
<b>Yashwant Kumar Sahu</b> <i>CV Raman University Raipur</i>	Plastics Waste Management:Threats and Opportunity: A Study with Respect to Bilaspur Municipal Corporation
<b>Sanjana Das, Aman Kumar Gupta, Yagyadeep</b> <i>CIPET: IPT Raipur</i>	Agronomic Sprayable mulch films by Biowaste
<b>Atul Dubey, Astha Patel, Pushkar Tiwari</b> <i>CIPET: IPT Raipur</i>	Conversion of Single Use Plastic (Thermocol) into Synthetic Fiber Using an Agro-waste
<b>Nidhi Chandrakar</b> <i>Amity Institute of Biotechnology, Amity University Chhattisgarh</i>	Biofilm: A Future Approach for Bioremediation on Environmental Adulteration
<b>Ashish Raghavan, Smita Mohanty</b> <i>CIPET:SARP-LARPM,Bhubaneswar</i>	Sustainable Energy Harvesting: Triboelectric Generators Utilizing Recycled PVC and PP from Biomedical Plastic Waste
<b>Dilip Sahu, R S Singh, A K Singh</b> <i>Govt. V.Y.T. PG. Autonomous College, Durg</i>	Reinforcement of Multiwalled Carbon Nanotube in Microcellular Silicone Elastomer: In Comparison with Nano-Graphite
<b>Khilendra Ratre, Ojasvee , Domesk Kumar</b> <i>CIPET: IPT Raipur</i>	Depolymerization of Waste Polyethylene Terephthalate in Supercritical Ethanol

## Hall I (Seminar Hall) Valedictory Session

**15:15-16:00 hrs**