APA 2026
Bhopal

APA International Conference on

Polymers for Advanced Technology

16-18 November, 2026

Pride Hotel, Bhopal, India

Organised by

Asian Polymer Association
A.P.A.

In association with

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Plenary Speakers



Pedro Fardim
KU Leuven, Belgium



Daniel Grande
ICS, Strasbourg, France



Walter Richtering
RWTH, Aachen, Germany



Stefan Barot
Balrampur Chini Mills Limited, Kolkata, India

Industry Innovation Plenary



Kapil Malhotra
GFL, Noida, India



Vineet Gupta
HMEL, Noida,India



Sandip Patil
E-Spin Nanotech Pvt Ltd, Kanpur, India

Industry Microsymposia

Sustainability

Coordinator
Vimal Katiyar
IIT Guwahati, India

Tissue Engineering

Coordinator
Sumit Murab
IIT Mandi, India

Biohydrogels

Coordinator
Deepak Pathania
CU, Jammu, India

Smart Packaging

Coordinator
Anurag Kulshreshtha
IIT Roorkee, India

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APA Awards 2026



Daniel Grande
ICS, Strasbourg, France



Kapil Malhotra
GFL, Noida, India



Samrat Mukhopadhyay
IIT Delhi, India



Sneh Bangar
Rochester Institute of Technology Rochester, New York, USA



Prerak Gupta
Maulana Azad National Institute of Technology, Bhopal, India



Tanweer Alam
Indian Institute of Packaging New Delhi, India

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APA Distinguished Award 2026



Daniel Grande
ICS, Strasbourg, France

Dr. Daniel Grande is a CNRS Research Director and Director of the Charles Sadron Institute (ICS), Strasbourg, France. He obtained his Ph.D. in Polymer Chemistry from Université Bordeaux-I and Universidad Autónoma de Coahuila in 1998, followed by a Research Habilitation (HDR) in Polymer Chemistry and Physico-Chemistry from Université Paris-Est Créteil in 2006. Dr. Grande has been associated with CNRS since 2001 and has held several academic and research positions, including CNRS Research Director at the Institut de Chimie et des Matériaux Paris-Est (ICMPE) and Director of ICMPE from 2020–2023. His scientific career has been recognized with several CNRS awards, including the Award for Scientific Excellence and multiple Awards for Doctoral and Research Management.

His research career has resulted in 160 peer-reviewed journal publications, 46 conference proceedings, 18 book chapters, 2 edited books, and 14 patents, along with numerous invited lectures and scientific presentations. He has supervised or co-supervised 11 postdoctoral fellows, 30 Ph.D. students, and 40 M.S. students.

Dr. Grande has also held several national and international scientific leadership positions, including President of the Soft Matter section of the French National Council for Scientific Research (CoNRS), national scientific administrator for Polymer and Soft Matter Science at CNRS, and French national representative to the European Polymer Federation.

APA ICON Award 2026



Kapil Malhotra
GFL, Noida, India

Kapil Malhotra has over 38 years of experience in business development and application development, currently serving as the Global Business Unit Head - Fluoropolymers at Gujarat Fluorochemicals Limited (GFL). He has a strong track record of formulating sales and marketing strategies, enhancing brand visibility through promotional events, and demonstrating expertise in strategic planning, account management, and P&L management.

With more than 20 years at GFL, Kapil Malhotra has led the fluoropolymer business, overseeing products such as PTFE, FEP, PFA, and PVDF, and has played a key role in the development of the plant in Dahej, Gujarat, successfully distributing products in over 50 countries worldwide. He actively promotes Sustainable Development Goals (SDGs) and drives IT and digitalization initiatives within the organization.

Kapil Malhotra began his career at K.G. Khosla Compressors Limited and has held significant roles at Chemplast Sanmar Limited, Sulzer India Limited, and Kirloskar Pneumatic Co. Ltd. He is involved in various industry associations, having served as Former President of the Alkali Manufacturers Association of India and Vice-chairman of the Indian Chemical Council-Northern Region and ASSOCHAM.

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APA Social Award 2026



Samrat Mukhopadhyay
IIT Delhi, India

Professor Samrat Mukhopadhyay, a gold-medalist from the University of Kolkata, obtained his M.Tech and PhD from the Indian Institute of Technology Delhi (IIT Delhi), and was with the Fibrous Materials Research Group, University of Minho, Portugal as a Post-Doctoral Scientist with the prestigious FCT grant before joining the Department. He is currently a Professor in the Department of Textile and Fibre Engineering at IIT Delhi. His research involves natural and synthetic fibres, their modification through physical and chemical methods, fibre-reinforced composites, 2D materials, sustainable textile materials and chemical processing, colour science, and technological interventions in the handloom industry. With a H index of 35, he has been in the top 2% Stanford list from the year 2022 and has been the recipient of the C V Raman Award (Acoustical Society of India), Eminent Engineer Award, IIE (India). He currently serves as the Chairperson of the Board of Academic Affairs of the Indian Institutes of Handloom Technology (Ministry of Textiles, Government of India), looking into the curriculum and other academic activities.

He had been the NSS coordinator of IIT Delhi for six years and enhanced the social outreach of the educational Institute and was chosen for the "NSS Karamveer award" for outstanding social outreach. He has been associated with the Indian handloom sector for the last fifteen years, working on technological interventions and developing prototypes to relieve drudgery and improve ergonomics. He has been associated with several NGOs for teaching activities.

APA Young Scientist Award 2026



Sneh Bangar
Rochester Institute of Technology
Rochester, New York, USA

Sneh Punia Bangar is an Assistant Professor in the Department of Packaging Science and Graphic Media at Rochester Institute of Technology, New York. Prior to this appointment, she worked as a postdoctoral researcher in the Department of Food, Nutrition, and Packaging.
Sciences at Clemson University, SC, USA. Her research focuses on the design and development of sustainable biopolymer-based films, coatings, and packaging materials derived from starch, cellulose, lignin, and other natural polymers. A key aspect of her research is adding value to agricultural and food-industry waste by extracting functional biopolymers for use in food and packaging. She has authored or co-authored more than 200 research/review articles, 25 authored/edited books, 50 book chapters, and 20 conference proceedings/seminars. Her significant contributions to academia and research were acknowledged with the "Award of Honour" in 2019 for her outstanding achievements. She is the recipient of the GSG Outstanding Graduate Research Assistant (2022) and CAFLS Outstanding Graduate Student Research Award (2023) at Clemson University, USA. Dr. Bangar received the " Professor Gurcharan Bains Award" from the Association of Food Scientists & Technologists (India) in 2023 for her incredible contribution to Food Science and Technology. Also, she has been listed (2023, 2024 and 2025) in "World Ranking of Top 2% Scientists," published by Stanford University, USA. Dr. Bangar was awarded the recipient of Clemson University's Distinguished Post-Doctoral Fellow Award for 2024. She has an H-index of 81 and ~20,000 citations, according to Google Scholar.

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APA Young Researcher Award 2026



Prerak Gupta
Maulana Azad National Institute of Technology, Bhopal, India

Dr. Prerak Gupta is an Assistant Professor in the Department of Biological Science and Engineering at Maulana Azad National Institute of Technology (MANIT), Bhopal, India. He is a multidisciplinary researcher focused on biomaterials, tissue engineering, regenerative medicine, and vascular biology. Dr. Gupta earned his M.Tech. in Biotechnology from the National Institute of Technology Rourkela, followed by a Ph.D. in Biomaterials and Tissue Engineering from IIT Guwahati in 2022. His Ph.D. research involved developing silk-based small-diameter tissue-engineered vascular grafts under Prof. Biman B. Mandal's mentorship and included a Fulbright-Nehru Fellowship at the University of Pittsburgh.

He completed postdoctoral research at the University of Illinois Chicago and the University of Michigan, exploring cellular responses to extracellular microenvironments and the development of engineered extracellular vesicle-based nanomedicine for targeted therapy. Dr. Gupta has authored over 23 peer-reviewed journal publications and holds two Indian patents and one US patent application related to vascular graft technologies and nanovesicles. His work has earned him several fellowships and awards, including the American Heart Association Postdoctoral Fellowship and the BMES Junior Investigator Research Award.

At MANIT Bhopal, he is developing a research program in vascular tissue engineering and regenerative medicine, aiming to integrate biomaterials and nanobiotechnology for innovative therapeutic technologies.

APA Fellow Award 2026



Tanweer Alam
Indian Institute of Packaging
New Delhi, India

Prof. (Dr.) Tanweer Alam is a distinguished academic and packaging technology expert, currently serving as Additional Director and Regional Officer at the Indian Institute of Packaging (IIP), Delhi. He holds a doctorate from the National Dairy Research Institute (NDRI) and is a Fellow of the National Academy of Dairy Science. His expertise includes food packaging, sustainable practices, and dairy technology.

With over 100 published research papers, five authored books, and two patents, Prof. Alam has significantly influenced packaging research and education. He serves as Editor-in-Chief of the Journal of Packaging Technology and Research and is actively involved in National Standards through initiatives with the Bureau of Indian Standards (BIS) and the Rapporteurs of the Scientific Panel on Sustainable Packaging (SP) of FSSAI

Prof. Alam has represented India in international packaging forums and received multiple awards for his contributions to packaging science and education, including the Mumbai Achiever Award and the National Fellowship Award. His work promotes innovation and sustainability in the packaging sector.

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APA Sustainability & Environmental Impact Award 2026

Reliance
Industries Limited

Reliance Industries Limited is actively working to promote sustainability and reduce its environmental impact through initiatives focused on clean energy, resource efficiency, and environmental conservation. The company is investing in renewable energy, green hydrogen, solar power, battery storage, and advanced recycling technologies to support the transition towards a low-carbon economy. It also focuses on reducing greenhouse gas emissions, improving energy efficiency, conserving water through wastewater treatment and recycling, and minimizing industrial waste. Its circular economy initiatives include plastic recycling, sustainable packaging, and waste management, while biodiversity conservation and greenbelt development further demonstrate its commitment to environmental protection. Through these efforts, Reliance aims to balance industrial growth with environmental responsibility and contribute to a more sustainable future.

APA Industry Leadership Award 2026

E-SPIN® NANOTECH

E-Spin Nanotech Pvt. Ltd. has established itself as a prominent player in the nanotechnology industry, particularly in nanofiber manufacturing, electrospinning technology, and advanced membrane solutions. Established in 2010 as a spin-off of IIT Kanpur, the company has developed strong expertise in nanofiber research, product development, and industrial-scale manufacturing. With over 500 successful machine installations globally, collaborations with leading academic and research institutions, and DSIR-recognised R&D facilities, E-Spin Nanotech continues to drive innovation in air and liquid filtration, healthcare, biomaterials, and advanced materials. Its commitment to technological excellence, customized solutions, and research-driven innovation positions it as a key contributor to advancing nanofiber technology in India and international markets.

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Springer Oral Contest

Chair: Jyoti Chaudhary, MLSU, Udaipur, India

Sakshi Sahoo (64)	Delhi Technological University
Kajal Goswami (99)	Indian Institute of Technology Mandi
Yogesh Jadhav (202)	Birla Institute of Technology and Science Pilani K K Birla Goa Campus
Keshav Kumar (155)	Netaji Subhas University of Technology , New Delhi
Sunidhi Mishra (84)	Indian Institute of Technology Roorkee
Keshav Sharma (291)	CIPET : SARP - LARPM

Wiley Oral Contest

Chair: Susheel Kalia, IMA, Dehradun, India

Anitta Thomas (56)	Homi Bhabha National Institute, Mumbai
Roshini Pattanayak (235)	CIPET:SARP-LARPM, Bhubaneswar
Amritanshu Pathak (254)	UPES, Dehradun
Dhanya M Shetty (239)	Yenepoya (deemed to be University), Manglore
Manini Bhatt (306)	Indian Institute Of Technology Ropar
Praveen Kumar (30)	Indian Institute Of Technology Kanpur

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RSC Oral Contest

Chair: Satyendra Mishra , NMU, Jalgaon, India

Vidya U G (58)	Sree Chitra Tirunal Institute of Medical Science and Technology, Trivandrum
Pooja Arulmurugan (252)	Vellore Institute of Technology, Chennai
Vidya Sawant (294)	Institute of Chemical Technology Mumbai
Komal Pandey (54)	Indian Institute of Science Education and Research Bhopal
Jigyasa Tripathi (272)	Shiv nadar institution of eminence, Delhi
Umisha Kalia (184)	Indian Institute of Technology Mandi

Poster Evaluation Committee

Coordinators: Susheel Kalia, IMA Dehradun, India & Chetna Verma, IIT, New Delhi, India

Panelist	
Amit Jaiswal	VIT, Vellore
Jyoti Chaudhary	MLSU, Udaipur
Siddharth Sirohi	DU, New Delhi
Rakesh Sharma	MSU, Vadodara
Rani Rohini	IIT Jammu
S. Sonawane	NSUT, New Delhi
Susmita Dey Sandhu	DU, New Delhi
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Kalpana Chauhan	CU, Mahendragarh
Sunil Kumar	HPU, Shimla
Abhimanew Dhir	IIT Mandi

Wisdom Contest

17th Nov. 2026 | Time: 12:15-13:00

On the spot Registration of participants

Programme

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16-18 November, 2026 | Pride Hotel, Bhopal, India

Day-1 | 16th Nov, 2026 | Programme

08:00-onwards | Registration

Inauguration (Main Hall)
Time: 09:00 - 10:00

Welcome & Bouquet Presentation
Time: 09:00-09:05

Lamp Lighting
Time: 09:05-09:10

APA Address
Bhuvanesh Gupta *(APA President)*
Time: 09:10-09:15

Theme Address
Virendra K. Gupta *(Conference Chair, Reliance Industries Ltd.)*
Time: 09:15-09:25

Presidential Address
Raghuvir Singh Tomar *(Director In-charge, IISER Bhopal)*
Time: 09:25-09:35

Special Address
Pedro Fardim *(Guest of Honor, KU Leuven, Belgium)*
Time: 09:35-09:50

Inaugural Address
Rajeev Ahuja *(Chief Guest, Director, IIT Ropar)*
Time: 09:50-10:20

Vote of Thanks
Susheel Kalia *(Conference Secretary, IMA, Dehradun)*
Time: 10:20-10:25

Time: 10:25 - 11:00 | Inaugural Tea

Session 1 | Venue: Main Hall

Plenary Talks

Chairs: Manohar Badiger, NCL, Pune, India &
Sanjay K Nayak, Former DG, CIPET, India

Time: 11:00-11:30
What does Softness Mean for Soft Polymer Colloids
Walter Richtering, *RWTH Aachen University, Aachen, Germany*

Time: 11:30-12:00
TBA
Stefan Barot, *Balrampur Chini Mills Limited, Kolkata, India*

Session 2 | Venue: Main Hall

Industry & Innovation Plenary

Chairs: Anup Ghosh, IIP, New Delhi, India &
Sandesh Jain, CIPET, Bhopal, India

Time: 12:00-12:30
TBA
Vineet Kumar Gupta, *HPCL-Mittal Energy Limited, Noida, India*

Time: 12:30-13:00
Strategic Evolution of Fluoropolymers within the Framework of Global Materials Innovation
Kapil Malhotra, *Gujarat Fluorochemicals Limited, Noida, India*

13:00-14:00 | Lunch Break

Session 3 | Poster Session

Time: 14:00-15:00

Chairs: Susheel Kalia, IMA, Dehradun, India &
Chetna Verma, IIT Delhi, New Delhi, India

Session 4 : Microsymposium on Bioengineering

Chairs: Aasheesh Srivastava, IISER Bhopal, India — Venue: Main Hall

Time	Lecture	Title/Author
15:00-15:20	IL	Hybrid Dressings for Superior Management of Complex Wounds **Atharva Poundarik** *Indian Institute of Technology Ropar, India*
15:20-15:40	IL	Jute Bast Fiber-Derived Nanocellulose: A Potential Biomaterial for Drug Delivery and Tissue Regeneration **Bodhisatwa Das** *IIT Ropar, India*
15:40-16:00	IL	Advanced Biomaterials for Additive Manufacturing of Orthopaedic Implants **Sumit Murab** *IIT Mandi, India*

Session 5 : Microsymposium on Sustainability

Chairs: Kapil Malhotra, GFL, Noida, India Venue: Hall-1

Time	Lecture	Title/Author
15:00-15:20	IL	The Role of Polymers in Environmental Sustainability **Ravi Kant Pathak** *University of Gothenburg, Sweden*
15:20-15:40	IL	Upcycling Polyolefin Waste into High-Value Materials via Adaptive Vinomer and Vitrilomer Networks **Suryasarathi Bose** *Indian Institute of Science Bangalore (IISc Bangalore), India*
15:40-16:00	IL	Evaluation of Algae-Derived Material as Sustainable Additives for Elastomers **Suchismita Sahoo** *Reliance Industries Limited, Navi Mumbai, India*

Session 6 : Microsymposium on Smart Packaging

Chairs: Tanweer Alam, IIP, New Delhi, India Venue: Hall-2

Time	Lecture	Title/Author
15:00-15:20	IL	Future Of Smart Flexible And Shrink Sleeve Packaging **Chetan Jain** *Taurus Packaging Pvt Ltd, Greater Noida, India*
15:20-15:40	IL	**NS Sundaram** *Paharpur 3P, Ghaziabad, India*
15:40-16:00	IL	Flexible Packaging - Challenges & Opportunities **Kaushik Nag** *Jupiter Laminators Pvt. Ltd, Gurugram, India*

Session 7 : Microsymposium on Biohydrogels

Chairs: Sravendra Rana, UPES, Dehradun, India Venue: Hall-3

Time	Lecture	Title/Author
15:00-15:20	IL	Sustainable Wastewater Remediation by Hydrogels and Agricultural Waste-Based Adsorbents **Samrat Mukhopadhyay** *Indian Institute of Technology Delhi, New Delhi, India*
15:20-15:40	IL	Biopolymer Based Hydrogels for Drug Delivery and Biomedical Applications **Vikas Vithhal Gite** *Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra, India*
15:40-16:00	IL	Encapsulation of Pomegranate peels polyphenols: A sustainable valorization approach using Pectin-Xanthan Gum Matrix **Anupama Kumar** *Visvesvaraya National Institute of Technology, Nagpur, India*

16:00-16:20 | Tea Break (Green Lawn)

Session 8 : Biomaterials & Bioengineering

Chairs: Bodhisatwa Das, IIT Ropar, India &
Deepak Pathania, CU, Jammu, India

Venue: Main Hall

Time	Lecture	Title/Author
16:20-16:40	IL	Designing Polymers for Efficient Intracellular Delivery of Therapeutic Nucleotides **Aasheesh Srivastava** *IISER Bhopal, India*
16:40-17:00	IL	Janus Microbead Biosensors for Rapid Pathogen Detection **Dhrubajyoti Das** *Vellore Institute of Technology, Vellore, India*
17:00-17:15	OL	Ultrasound-Assisted Green Grafting of Warfarin Sodium onto Chicory Inulin and its enhanced Antioxidant Activity **Himanshu Rani** *Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India*
17:15-17:30	OL	Next-Generation phyto-nanoengineered ceramic-polymeric bone substitutes for augmenting regeneration in Critical Defects **Sneha Singh** *Birla Institute of Technology, Mesra, Ranchi, India*

Session 9 : Fibrous & Textile Materials

Chairs: DS Bag, DMSRDE, Kanpur, India &
Samrat Mukhopadhyay, IIT Delhi, New Delhi, India

Venue: Hall-1

Time	Lecture	Title/Author
16:20-16:40	IL	Curing studies of Phthalonitrile-Carbon fabric prepregs for fabrication of High-Performance Composite via Dynamic Themo-mechanical Analyzer **Ajit Shankar Singh** *DMSRDE, Kanpur, India*
16:40-17:00	IL	Advanced Polymer Filament Production for 3D Printing Using Twin-Screw Extrusion and Melt Pump Technology **Manoj Bansal** *Thermo Fisher Scientific, Mumbai, India*
17:00-17:15	OL	Green Hydrothermal Synthesis of MXene and Its Synergistic Integration with Polypyrrole for Energy-Efficient Joule-Heating Textiles **Subhankar Maity** *Uttar Pradesh Textile Technology Institute, Kanpur, India*
17:15-17:30	OL	Textile Recycling: Fabrication of Recycled Polyethylene terephthalate (rPET) POY and DTY Yarn from Surat's Textile Waste Fabric **Bhabatosh Biswas** *The Man-Made Textiles Research Association (MANTRA), Surat, India*

Session 10 : Advanced Materials & Technology

Chairs: Atharva Poundarik, IIT Ropar, India &
Vibhore Rastogi, IIT Roorkee, India

Venue: Hall-2

Time	Lecture	Title/Author
16:20-16:40	IL	Redox-Active Porous Organic Materials for Sodium Ion Battery Electrodes: Crystalline Framework Vs. Amorphous Network **Abhijit Patra** *Indian Institute of Science Education and Research Bhopal, India*
16:40-17:00	IL	Design and Development of Reprocessable Carbon Fiber Composites Using Covalent Adaptable Networks **Sravendra Rana** *UPES, Dehradun, India*
17:00-17:15	OL	Effect of thermally conductive potting on heat dissipation in electronics components **Amol Tarachand Naikwadi** *Uno Minda Ltd, Pune, India*
17:15-17:30	OL	Development and Biodegradation Performance of PLA/PBS/Starch-Based Polymer Blends for Sustainable Packaging Applications **Asish Kumar Sahu** *AKC-PTARC, Noida, India*

Session 11 : Smart Polymers

Chairs: Suryasarathi Bose, IISc, Bangalore, India &
Garima Agrawal, IIT Mandi, India

Venue: Hall-3

Time	Lecture	Title/Author
16:20-16:40	IL	Synthesis of Azo–Chitosan Functional Biopolymers for Antimicrobial Applications **Swapnil Sonawane** *Netaji Subhas University of Technology (NSUT), Delhi, India*
16:40-17:00	IL	Next-Gen Smart Pack: Multifunctional Electrospun Films for Food Preservation and Monitoring **Ankit Tyagi** *IIT Jammu, India*
17:00-17:15	OL	Mucoadhesive microspheres of ferrous sulphate - a novel approach for oral iron delivery in treating anemia **Rosemary M J** *Corporate R & D Centre, Thiruvananthapuram, India*
17:15-17:30	OL	Amphiphilic Cellulose Nanofibrils in Thermoplastic Starch Nanocomposites for Food Packaging Applications **Dheeraj Ahuja** *Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India*

Session 12 | APA Distinguished Award Plenary (Venue: Main Hall)

Time: 17:30-18:15

Chairs: Pedro Fardim, KU Leuven, Belgium

From Macromolecular Engineering to Engineering of Functional Porous Polymers

Daniel Grande
CNRS - Institut Charles Sadron, Strasbourg, France

18:15-18:30 | Group Photo

Time: 19:00-22:00

Cultural Programme, APA Award presentation & Conference Dinner (Green Lawn)

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Polymers for Advanced Technology

16-18 November, 2026 | Pride Hotel, Bhopal, India

Day-2 | 17th Nov, 2026 | Programme

Session 13 : Plenary Session

Chairs: Daniel Grande, University of Strasbourg, France &
Ravi Kant Pathak, Gothenburg University, Sweden

Venue: Main Hall

Time	Lecture	Title/Author
09:00-09:30	PL	Biofabrication and Functionalization of Pullulan to Advanced Materials **Pedro Fardim** *KU Leuven, Belgium*
09:30-10:00	PL	Next-Generation Polymer Technologies: Innovations Driving a Sustainable Future **Sandip Patil** *E-Spin Nanotech Pvt Ltd, Kanpur, India*

Session 14 : Functional Hydrogels

Chairs: Abhimanew Dhir, IIT Mandi, India &
Manju Saraswathy, SCTIMST, Trivandrum, India

Venue: Main Hall

Time	Lecture	Title/Author
10:00-10:20	IL	Scalable Sustainable Chemistry Strategies for Advanced Functional Biopolymer Materials **Kalpana Chauhan** *Central University of Haryana, Mahendergarh, India*
10:20-10:40	IL	Design of self-healing injectable hydrogels from functionalized natural gums for biomedical applications **Roli Purwar** *Delhi Technological University, India*
10:40-11:00	IL	Metal ion Cross-Linked Hierarchically Oriented Anisotropic Polymer Hydrogels for Sensing and Energy Storage Applications **Rajat Kumar Das** *Indian Institute of Technology, Kharagpur, India*

Session 15 : Biopolymers

Chairs: Amit Jaiswal, VIT, Vellore, India &
Manohar Badiger, NCL, Pune, India

Venue: Hall-1

Time	Lecture	Title/Author
10:00-10:20	IL	Beyond Conventional Bone Grafts: Printable Composites for 3D and 4D Biomanufacturing **Himansu Sekhar Nanda** *IIITDM Jabalpur, Madhya Pradesh, India*
10:20-10:40	IL	Role of hard and soft components in functional PU for Advanced Engineering Applications **Rani Rohini** *Indian Institute of Technology, Jammu, India*
10:40-11:00	IL	TBA **Manoj Sharma** *Waters India Pvt. Ltd., India*

Session 16 : Smart Packaging Materials

Chairs: Chetan Jain, Taurus, Noida, India &
Paramita Das, IISER Bhopal, India

Venue: Hall-2

Time	Lecture	Title/Author
10:00-10:20	IL	From Wheat Straw to Sustainable Fiber-Based Products: Shaping the Future of the Circular Economy **Vibhore Kumar Rastogi** *Indian Institute of Technology Roorkee, Saharanpur, India*
10:20-10:40	IL	Polymeric Membranes for Sustainable Fruit Juice Concentration: Bridging Materials Engineering, Beverage Quality, and Packaging Innovation **Aaditya Pandey** *Indian Institute of Technology Ropar, India*
10:40-11:00	IL	Active Zinc-based Metal Organic Framework /Polyvinyl Alcohol Films for Shelf-Life Extension of Rohu Fish **Susmita Dey Sadhu** *Bhaskaracharya College of Applied Sciences, DU, Delhi, India*

11:00-11:20 | Tea Break

Session 17 : Biomaterials & Bioengineering

Chairs: Satyendra Mishra, NMU, Jalgaon, India &
Giriraj Tailor, Mewar Univ., Chittorgarh, India

Venue: Main Hall

Time	Lecture	Title/Author
11:20-11:40	IL	Air-Assisted Electrospinning of Starch/PVA/Curcumin Nanofibers: A Scalable Route to Intelligent, Antimicrobial Food Packaging **Alka Gupta** *University Institute of Engineering and Technology (UIET), CSJM University, Kanpur, India*
11:40-12:00	IL	Label-Free Optical Transmission-Based Liquid Crystal immunosensor for Sensitive Detection of Kidney Injury Molecule-1 (KIM-1) **Arun Kant Singh** *CSIR-National Physical Laboratory, New Delhi, India*
12:00-12:15	OL	Additive manufacturing in medical prosthetic applications: A comprehensive review on materials, processes, and functional outcomes **Swati Singh** *CIPET, Bhopal, India*

Session 18 : Functional Materials

Chairs: Sumit Murab, IIT Mandi, India &
Roli Purwar, DTU, New Delhi, India

Venue: Hall-1

Time	Lecture	Title/Author
11:20-11:40	IL	Label-Free Liquid Crystal Based Dielectric Genosensor for the quantitative detection of Infectious Bacterium **Rajesh** *CSIR-National Physical Laboratory, New Delhi, India*
11:40-12:00	IL	From Bench to Market: Scalable Manufacturing of Microneedle Arrays for Next-Generation Healthcare Applications **Shiny Velayudhan** *Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, India*
12:00-12:15	OL	Carrageenan: A next-generation biopolymer for sustainable applications in safe food packaging. **Naureen Khan** *CIPET, Bhopal, India*

Session 19 : Advanced Materials & Technology

Chairs: Sunil Kumar, HP University, Shimla, India &
Ram Singh, FlyOla Aviation, India

Venue: Hall-2

Time	Lecture	Title/Author
11:20-11:40	IL	Circular Materials for a Sustainable Future: Nanofiller-Reinforced Compostable Bioplastics **Vineet Aniya** *CSIR - Indian Institute of Chemical Technology, Hyderabad, India*
11:40-12:00	IL	Comparative Study: Single-Deck Pellet Cleaner vs Multi-Deck Pellet Cleaner **Rounak Kulkarni** *Indpro Engineering Systems Pvt Ltd, Pune, India*
12:00-12:15	OL	Development of Sustainable Bio-composite Mulch Film for Sustainable Agricultural Applications **Rajshree Vijayvargiya** *Central Institute of Petrochemicals Engineering and Technology (CIPET), Raipur, India*

Session 20 : Springer Student Oral Award Contest

Chairs: Jyoti Chaudhary, MLSU, Udaipur, India

Venue: Hall-3

Time	Lecture	Title/Author
11:20-11:30	OL	Synthesis, Characterization and Rheological behavior of epoxy resin derived from silk worm pupae oil **Sakshi Sahu** *Delhi Technological University, Delhi, India*
11:30-11:40	OL	Extracellular Matrix-Inspired Alginate/Magnesium Phosphate Nanofibers Coated 3D-Printed PLA Scaffolds for Enhanced Mineralization and Osteogenic Response **Kajal Goswami** *Indian Institute of Technology Mandi, Mandi, India*
11:40-11:50	OL	Bio-Based Antidegradant System for Natural Rubber Composites **Yogesh Jadhav** *Birla Institute of Technology and Science Pilani, K K Birla Goa Campus, Goa, India*
11:50-12:00	OL	Development of Fluorescent Chitosan for solid state multicolor emission and Environmental remediation **Keshav Kumar** *Netaji Subhas University of Technology, New Delhi, India*
12:00-12:10	OL	Sustainable Triboelectret Nanogenerator from Chemically Tailored Cellulose for Wearable Electronics **Sunidhi Mishra** *IIT Roorkee, Saharanpur Campus, India*
12:10-12:20	OL	Green Solvent-Assisted Upcycling of Crosslinked Industrial Solar-Grade EVA Trimmings into Value-Added EVOH-Based Material **Keshav Sharma** *CIPET: SARP-LARPM, Bhubaneswar, India*

Session 21 | Wisdom Contest

Time: 12:15-13:00

Chairs: Chetna Verma, IIT Delhi, India &
Rohini Verma, IIT Delhi, India

13:00-14:00 | Lunch Break

Session 22 : Biomaterials & Bioengineering

Chairs: Venkata Krishnan, IIT Mandi, India &
HS Nanda, IIITM, Jabalpur, India

Venue: Main Hall

Time	Lecture	Title/Author
14:00-14:20	IL	Biodegradable Radiopaque Microbeads for Transarterial Chemoembolization **Manju Saraswathy** *Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, India*
14:20-14:40	IL	Natural polymer-based granular hydrogels for 3D bioprinting applications **Amit Kumar Jaiswal** *Vellore Institute of Technology, India*
14:40-15:00	IL	Environmentally Benign Smart Polymeric Microgels for Sustainable Future **Garima Agrawal** *IIT Mandi, India*
15:00-15:15	OL	Fabrication and Evaluation of Nanofiber reinforced multilayered scaffold with tissue adhesive and anti-adhesive properties for Dural Tissue Engineering Application **Bhisham Narayan Singh** *Manipal Academy of Higher Education, India*
15:15-15:30	OL	Engineering Biomaterials for Vascular Repair: From Milli- to Micro-Scale Regeneration **Prerak Gupta** *Maulana Azad National Institute of Technology Bhopal, India*

Session 23 : Nanomaterials & Nanotechnology

Chairs: Arun K Patra, UPTTI, Kanpur, India &
Alekha K Suthar, NIT Raipur, India

Venue: Hall-1

Time	Lecture	Title/Author
14:00-14:20	IL	Development of sustainable nanosensors for environmental and health applications **Sunil Kumar** *Himachal Pradesh University, Shimla, India*
14:20-14:40	IL	Development of polyurethane composite films and foams through biobased resources **Rakesh K. Sharma** *The Maharaja Sayajirao University of Baroda, Vadodara, India*
14:40-15:00	IL	Sustainable Development with Hydrogels: Addressing Global Challenges **Vijay Kumar** *National Institute of Technology Srinagar, Hazratbal, India*
15:00-15:15	OL	Sustainable Production and phytochemical screening of Cobalt Nanoparticles via Moringa oleifera Extract: A Promising Approach for Antibacterial Applications **Giriraj Tailor** *Mewar University, Chittorgarh, India*
15:15-15:30	OL	Synthesis and characterization of Ni@Cu doped nanoparticles using Manilkara zapota seeds and their biological application **Saurabh Singh** *M.L.V. Government College, Bhilwara, India*

Session 24 : Advanced Materials & Technology

Chairs: Siddhartha Sirohi, Delhi Univ., New Delhi, India &
KK Choudhary, IMA, Dehradun, India

Venue: Hall-2

Time	Lecture	Title/Author
14:00-14:20	IL	Microplastics in the Chenab River Ecosystem **Deepak Pathania** *Central University of Jammu, Samba, India*
14:20-14:40	IL	Engineering Nanocolloids for the Rational Design of Functional Nanoporous Polymers via Click-Inspired Chemistry toward Sustainable Nuclear Energy **Subrata Chattopadhyay** *IIT Patna, India*
14:40-15:00	IL	Energy Storage Devices Using Conducting Polymers@Metal oxides **Tungabidya Maharana** *National Institute of Technology Raipur, India*
15:00-15:15	OL	Heterogeneous Polypropylene Catalysis: Effect of External Donors on Polymerization and Product Properties **Nem Singh** *Reliance Industries Limited, Navi Mumbai, India*
15:15-15:30	OL	Evaluating Next-Generation EPE-DC Polymeric Encapsulant against EPE and EVA in Solar Cell Laminates Under Harsh Moisture Exposure **Bhuwanesh Kumar Sharma** *Rayzon Solar Limited, Surat, India*

Session 25 : Wiley Student Oral Award Contest

Chairs: Susheel Kalia, IMA, Dehradun, India Venue: Hall-3

Time	Lecture	Title/Author
14:00-14:10	OL	Gamma Radiation Assisted Fabrication of Polyvinyl pyrrolidone Functionalized PES beads: Characterization and Iodine Capture Study **Anitta Thomas** *Homi Bhabha National Institute, Mumbai, India*
14:10-14:20	OL	Engineering Next-Generation Bio-Based Sustainable Formulations for High-Performance Absorbent Applications **Roshni Pattanayak** *CIPET: SARP-LARPM, Bhubaneswar, India*
14:20-14:30	OL	Citrus reticulata biomass derived biofilm for sustainable food packaging application **Amritanshu Pathak** *UPES, Dehradun, India*
14:30-14:40	OL	ABC Terpolymers Composed of Rationally Varied Modifiable Activated Ester Pendant Groups: Synthesis, Characterization and Cytotoxic evaluation **Dhanya M Shetty** *Yenepoya(deemed to be University), Mangalore, India*
14:40-14:50	OL	Biomimetic Citric Acid-Mediated Dual-Crosslinked Scaffold remodels the niche post Spinal Cord Injury by promoting functional recovery and reducing inflammation **Manini Bhatt** *Indian Institute of Technology Ropar, Rupnagar, India*
14:50-15:00	OL	Efficient Removal of Toxic Cr (VI) from Industrial Waste by Using PANI-CMC Composite **Praveen Kumar** *Indian Institute of Technology Kanpur, Kanpur, India*

15:30-15:50 | Tea Break

Session 26 : Composite Materials

Chairs: Anupama Kumar, VNIT Nagpur, India &
Tungabidya Maharana, NIT Raipur, India

Venue: Main Hall

Time	Lecture	Title/Author
15:50-16:10	IL	Evaluation of $Mn_2P_2O_7$ Nanofibers for Enhanced Electrochemical Supercapacitor Performance **Sushama M. Giripunje** *Visvesvaraya National Institute of Technology, Nagpur, Maharashtra, India*
16:10-16:30	IL	Flexible and Efficient Ultraviolet Photodetectors Based on One- Dimensional MWCNT / Thermoplastic Polyurethane Nanocomposite **Sidhharth Sirohi** *Bhaskaracharya College of Applied Sciences (University of Delhi), New Delhi, India*
16:30-16:45	OL	PVDF/Zn-MOF Nanocomposite Thin Films with Enhanced Interfacial Polarization and Dielectric Behavior **Rohan Sagar** *NCHU, Taichung, Taiwan*
16:45-17:00	OL	Functionalization of Green Synthesis of Carbon Dots with Polymer Matrix for Detection and Removal of Toxic Heavy Metal **Prakash Chandra** *Bundelkhand University Jhansi, India*

Session 27 : Fibrous & Textile Materials

Chairs: Rakesh Sharma, MS Univ., Vadodara, India &
Akshay Modi, IISER Bhopal, India

Venue: Hall-1

Time	Lecture	Title/Author
15:50-16:10	IL	Smart and Ballistic Fibers and Their Technologies: Innovations and Challenges **Dibyendu Sekhar Bag** *Defence Materials and Stores Research and Development Establishment, Kanpur, India*
16:10-16:30	IL	Functionalized Textiles with antimicrobial properties using Copper Nanoparticles **Arun Kumar Patra** *UP Textile Technology Institute, Kanpur, India*
16:30-16:45	OL	Numerical Investigation of Fibre Diameter and Hollowness Effects on the Thermal Insulation of Ultra-Low-Density Hollow Polyester Nonwovens **Amit Kumar** *Indian Institute of Technology Delhi, New Delhi, India*
16:45-17:00	OL	Synthesis of Polyzirconocarbosilane as a Precursor Material for Next-Generation Silicon Carbide Fibers **Amit Agnihotri** *DRDO, Kanpur, India*

Session 28 : Advanced Materials & Technology

Chairs: Ajit S Singh, DMSRDE, Kanpur, India &
Swapnil Sonawane, NSUT, New Delhi, India

Venue: Hall-2

Time	Lecture	Title/Author
15:50-16:10	IL	Transition Metal Salen Complexes Catalyzed ROP of Lactide **Alekha Kumar Suthar** *National Institute of Technology Raipur, India*
16:10-16:30	IL	Enhancement of printing properties of water-based inks by the Addition of Aloe Vera gel for rotogravure/flexographic printing **Anurag Kulshreshtha** *Indian Institute of Technology Roorkee, Saharanpur, India*
16:30-16:45	OL	Effect of Modified Hexagonal Boron Nitride (m-hBN) Nanofiller on the Mechanical and Thermal properties of UV-cured Polyurethane acrylate (PUAP) Coatings **Debasmita Mohanty** *CIPET: SARP- LARPM, Bhubaneswar, Odisha, India*
16:45-17:00	OL	Seasonal distribution of microplastics in River Beas **Sarita Pathania** *SPU Mandi, India*

Session 29 : RSC Student Oral Award Contest

Chairs: Satyendra Mishra, NMU, Jalgaon, India Venue: Hall-3

Time	Lecture	Title/Author
15:40-15:50	OL	Evaluation of In Vitro Degradation Kinetics of Radiopaque Alginate Microbeads **Vidya U G** *Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, India*
15:50-16:00	OL	An Anti-Freezing, Self-Adhesive PAM/PVA/Ni@CNTs Double-Network Hydrogel for Wearable Strain Sensing at Sub-Zero Temperatures **Pooja Arulmurugan** *Vellore Institute of Technology, Chennai, India*
16:00-16:10	OL	Development and Functional Characterization of Oxidized Guar Gum-Based Films for Active Food Packaging **Vidya Sawant** *Institute of Chemical Technology, Mumbai, India*
16:10-16:20	OL	Cellulose-Chitosan Composite Hydrogels for Controlled Phosphorous Release and Smart Agricultural Application **Komal Pandey** *Indian Institute of Science Education and Research Bhopal, India*
16:20-16:30	OL	TfOH-Mediated Concurrent Nitrile Cyclotrimerization and Benzoxazine Ring-Opening towards Triazine-Rich Polybenzoxazine Thermosets **Jigyasa Tripathi** *Shiv Nadar Institution of Eminence, Delhi NCR, India*
16:30-16:40	OL	Taro peel derived-carbon dots incorporated biodegradable chitosan-based films for active food packaging: Waste-to-wealth approach **Umisha Kalia** *Indian Institute of Technology Mandi, Mandi, India*

APA 2026 Bhopal

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Session 30 : Biosensors & Bioactive Materials

Chairs: Susmita Dey Sadhu, Delhi Univ., New Delhi, India &
Anjali Awasthi, HBTU, Kanpur, India

Venue: Main Hall

Time	Lecture	Title/Author
09:00-09:20	IL	Lipid Matrix Engineering for Controlled Drug Delivery: From Nanostructure Design to Drug Release **Paurnima Talele** *Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded, India*
09:20-09:40	IL	**TBA**
09:40-09:55	OL	Synthesis and Characterization of Biodegradable Biopolymeric Hydrogels and Films for Wound Healing Applications **Ashwini Wali** *Ramaiah Institute of Technology, Bengaluru, India*
09:55-10:10	OL	Sustainable Valorisation of Apple Peel Waste through Chitosan–Gum Arabic Biopolymeric Composite for Nutraceutical Applications **Sakshi Khushal Dange** *Visvesvaraya National Institute of Technology Nagpur, India*

Session 31 : Functional Materials

Chairs: Ankit Tyagi, IIT Jammu, India &
Vikas V. Gite, NMU, Jalgaon, India

Venue: Hall-1

Time	Lecture	Title/Author
09:00-09:20	IL	Green Chitosan-Based Adsorbents and Catalysts for Efficient CO_2 Capture and Transformation **Santosh Kumar** *Harcourt Butler Technical University Kanpur, India*
09:20-09:40	IL	Engineering Functional Polymeric Membranes and Materials for Separation Applications **Akshay Modi** *Indian Institute of Science Education and Research (IISER) Bhopal, India*
09:40-09:55	OL	Biomass-Derived Carbon-Polymer Composites for Solid-State Batteries: Materials, Interfaces and Future Perspectives **Gopal Carpenter** *ICAR- Central Institute of Agricultural Engineering Bhopal, India*
09:55-10:10	OL	Development and Performance Evaluation of Thermally Treated Biomass-Based Plaster with Partial Sand Replacement **Ankur Nagori** *ICAR-CIAE, Bhopal, India*

Session 32 : Miscellaneous Applications

Chairs: Savita Dixit, MANIT, Bhopal, India &
Sushma Giripunje, VNIT Nagpur, India

Venue: Hall-2

Time	Lecture	Title/Author
09:00-09:20	IL	Development of a Green Synthetic Strategy for New Conjugated Polymers and Their Application in OFET **Arunkumar Patel** *The Maharaja Sayajirao University of Baroda, Vadodara, India*
09:20-09:40	IL	Physics of Polymer Phase Separation **Gaurav Chauhan** *IIT Indore, India*
09:40-09:55	OL	Polymer Modelling – How Physics-based and Machine Learning Models Can Help? **Sudharsan Pandiyan** *Schrödinger India Private Limited, Bengaluru, India*
09:55-10:10	OL	Novel Heterogeneous Photocatalysts: A Strategic Route toward Enhanced Catalytic Activity for Energy and Environmental Applications **Sadanandam Gullapelli** *Indira Gandhi National Tribal University (A Central University), Amarkantak, India*

Session 33 : Advanced Materials & Technology

Chairs: Ashish Kapoor, HBTU, Kanpur, India &
Saurabh Singh, MLVGC, Bhilwara, India

Venue: Hall-3

Time	Lecture	Title/Author
09:00-09:20	IL	Non-Noble Metal based Sustainable Heterogeneous Catalysts for Chemical Recycling and Upcycling of Plastic Waste **Venkata Krishnan** *Indian Institute of Technology Mandi, India*
09:20-09:40	IL	Low-dielectric and low loss and high-temperature resistant polymeric system for high-performance aeronautical applications **Jeetendra Kumar Banshiwal** *DMSRDE, Kanpur, India*
09:40-09:55	OL	Sustainable Wax in Tyre Compounds: Chemical Characterisation and Performance Evaluation of Sorbitan Monostearate **Sudeep Dey** *Hari Shankar Singhania Elastomer and Tyre Research Institute, Metagalli, Mysuru, India*
09:55-10:10	OL	Gum Ghatti (Anogeissus latifolia) and Moringa Gum (Moringa oleifera) as Sustainable Biopolymer Matrices in 3D-Printed Multilayered Oral Disintegrating Films for Personalized Botanical Nutrient Supplementation **Jadala Shankaraswamy** *Sri Konda Laxman Telangana Horticultural University, Hyderabad, India*

10:15-10:30 | Tea Break

Session 34 : Functional Materials

Chairs: Dhrubajyoti Das, VIT, Vellore, India &
Santosh Kumar, HBTU, Kanpur, India

Venue: Hall-1

Time	Lecture	Title/Author
10:30-10:50	IL	Porous Carbon - Based Polymer-Metal Oxide Composite Electrode for High Performance Supercapacitors **Dipak Gupta** *Tribhuvan University, Kathmandu, Nepal*
10:50-11:10	IL	Functionalized Cellulosic Platforms for Analytical Detection of Contaminants **Ashish Kapoor** *Harcourt Butler Technical University, Kanpur, India*
11:10-11:25	OL	Mechanical Recycling of Graphene-Coated Natural Fiber/Epoxy Composites for Sustainable Materials Applications **Khurshid Malik** *Linköping University, Linköping, Sweden*
11:25-11:40	OL	Design and Development of High Performance PVDF based Flexible Composite Energy Harvesting Device for Wearable Electronics **Deshraj Meena** *Delhi Technological University Delhi, India*

Session 35 : Miscellaneous Applications

Chairs: KK Choudhary, IMA, Dehradun, India &
Arun K Singh, NPL, New Delhi, India

Venue: Hall-2

Time	Lecture	Title/Author
10:30-10:50	IL	Fluorescent Nanoconjugates Derived by RAFT Polymer Functionalization **Sonu Kumar** *Mahindra University, Hyderabad, India*
10:50-11:10	IL	Hydrogel functionalized with Butea monosperma leaf extract: A sustainable approach toward high-barrier active food packaging **Kajal Mishra** *Maulana Azad National Institute of Technology Bhopal, India*
11:10-11:25	OL	Computational Simulations for Exploring Physicochemical Phenomena of Polymers **Anant D. Kulkarni** *Qbitnova Tech Pvt. Ltd, Solapur, India*
11:25-11:40	OL	Organometallic-Assisted Electrodeposition of NiFe Nanostructures for Efficient Oxygen Evolution under Ambient Conditions **Parul Aggarwal** *CSIR-AMPRI, Bhopal, India*
11:40-11:55	OL	Pyrolytic Conversion of Plastic Waste into Value-Added Fuels and Products. **Neeraj Agarwal** *CIPET, Bhopal, India*

Session 36 : Advanced Materials & Technology

Chairs: Kalpana Chauhan, CU, Mahendragarh, India &
Ashwini Wali, M S Ramaiah Institute of Technology, Bangalore, India

Venue: Hall-3

Time	Lecture	Title/Author
10:30-10:50	IL	Application of Polyaniline in Energy Storage Device in combination with Mxene **Amar Prasad Yadav** *Tribhuvan University, Kathmandu, Nepal*
10:50-11:10	IL	Hydrogel-Based Platforms for Onsite Food Safety Monitoring **Anjali Awasthi** *Harcourt Butler Technical University, Kanpur, India*
11:10-11:25	OL	Multifunctional selenium nanoparticle-loaded self-assembled peptide gel for enhanced wound healing **Saurav Kumar** *Indian Institute of Technology Mandi, Mandi, India*
11:25-11:40	OL	Harnessing Ionic Liquid–Biopolymer Interactions for Efficient biomass Dissolution and Enhanced Fermentable Sugar Production **Madhusmita Dash** *PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur, Madhya Pradesh, India*
11:40-11:55	OL	Advanced Thermally Conductive and Anti-Corrosion Elastomeric Composite for High-Performance EMI/EMC Shielding in Automotive and Electric Vehicle Applications **Bhushan Patil** *Uno Minda Limited, Pune, India*

12:30-13:30 | Valedictory Session (Main Hall)

Time: 12:30-12:35
Bouquet Presentation

Time: 12:35-12:40
Welcome Address
Manohar Badiger, *Conference Co-Chair*

Time: 12:40-12:45
APA Address
Bhuvanesh Gupta, *APA President*

Time: 12:45-12:50
Theme Address
Satyendra Mishra, *APA ICON Awardee*

Time: 12:50-13:15
Valedictory Address
Mayank Dwivedi, *Chief Guest, Director General (HR), DRDO*

Time: 13:15-13:25
Award Ceremony

Time: 13:25-13:30
Vote of Thanks
Paramita Das, *Conference Convener*

13:30-14:30 | Lunch

14:30 | CONFERENCE ENDS

Poster Presentations

S. No.	ABS No.	Title	Presenting Author	Institution	City
P1	5	Studies on Bioactive Sodium Alginate-based Membranes for Wound Care System	Pooja Badsara	Mohanlal Sukhadia University	Udaipur
P2	7	Fabrication of Bioactive Cotton Fabric via Periodate Oxidation for Biomedical Application	Nirmal Rathore	Mohanlal Sukhadia University	Udaipur
P3	8	Surface Designing of Polylactic Acid Films for Biomedical Applications	Megha Yadav	Mohanlal Sukhadia University	Udaipur
P4	9	Nanodesigning of Smart Polyvinyl Alcohol based Membranes for Water Disinfection	Chesta Mehta	Mohanlal Sukhadia University	Udaipur
P5	10	Development of Antimicrobial Nano Silver Impregnated Polyethylene Terephthalate Fabric via Argon Plasma	Rohini Verma	Indian Institute of Technology Delhi	New Delhi
P6	30	Efficient Removal of Toxic Cr (VI) from Industrial Waste by Using PANI-CMC Composite	Praveen Kumar	Indian Institute of Technology	Kanpur
P7	31	Composition, Design, and Functional Properties of Biodegradable Sanitary Napkins - Advancements in Sustainable Menstrual Hygiene through Bio-Based Alternatives	Devanshi Handa	Indian Institute of Technology	Mandi
P8	32	Optical Bio-Based Resins for Vat Photopolymerization	Shagun	Indian Institute of Technology	Mandi
P9	34	Fabrication of SPVA/Chitosan-CNC-based Membrane Electrode Assembly via Wet-Interface Technique for Direct Methanol Fuel Cells	Suranjana Mukherjee	IISER	Bhopal
P10	36	Sustainable synthesis of Zn doped, self N-Co-Doped Activated Carbon derived from Chitosan for High-Performance Supercapacitor Application	Santosh Kumar Senapati	VNIT Nagpur	
P11	37	Localized Multimodal Breast Cancer Therapy Using Microneedle-Integrated Photothermal-Photodynamic and Chemotherapy	Nivedita Mukherjee	Indian Institute of Technology	Mandi
P12	41	In Situ Synthesized $CaCO_3$-Based Nanohybrid Composite Hydrogels for Controlled Ornidazole Release and Biomedical Applications	Kalyani Prusty	Sri University	Cuttack

S. No.	ABS No.	Title	Presenting Author	Institution	City
P13	43	Radiation assisted synthesis of carboxylic functionalized super porous PolyHEMA matrix: Process optimization and dye uptake study	Poorvi Allawadi	Bhabha Atomic Research Centre	Mumbai
P14	44	Herbal Mediated Green Synthesis of CuO Nanoparticles Using Nyctanthes arbor-tristis and Their Biological Activities	Chetna Parmar	MLS University	Udaipur
P15	47	Reprogramming of Tumor-Associated Macrophages Using Photosensitizer-Conjugated Mannan Nanoparticles for Enhanced Immuno-Photodynamic Therapy	Punya Sunil	Yenepoya deemed to be university	Ernakulam
P16	52	MXene-MWCNT Hybrid Reinforced PA6 Nanocomposites for Electronic Packaging	Priyam Srivastava	Indian Institute of Technology	Jammu
P17	54	Cellulose-Chitosan Composite Hydrogels for Controlled Phosphorous Release and Smart Agricultural Application	Komal Pandey	Indian Institute of Science Education and Research	Bhopal
P18	56	Gamma Radiation Assisted Fabrication of Polyvinyl pyrrolidone Functionalized PES beads: Characterization and Iodine Capture Study	Anitta Thomas	Homi Bhabha National Institute, Mumbai	Mumbai
P19	58	Evaluation of In Vitro Degradation Kinetics of Radiopaque Alginate Microbeads	Vidya U G	Sree Chitra Tirunal Institute of Medical Science and Technology	Trivandrum
P20	61	DFT and QM/MM Investigation of Thermodynamic Stability and Solvent Effects in α-Methylene-δ-Valerolactone Oligomers	Suryakanta Rana	Indian Institute of Science Education and Research	Bhopal
P21	64	Synthesis, Characterization and Rheological behavior of epoxy resin derived from silk worm pupae oil	Sakshi Sahu	Delhi Technological University	Delhi
P22	65	Natural Biopolymer based hydrogel for controlled release of Fertilizer for Agriculture application	Himanshi Bhardwaj	Visvesvaraya National Institute of Technology Nagpur	
P23	70	Sustainable Recovery of Fish Proteins from Fish Processing Wastewater Using a Modified Chitosan-Based Bio-Flocculant	Vaishnavi Ranjit Girase	CSIR-NCL Pune	
P24	71	Development of Antifouling Hydrogel Membranes for Wound Management	Chetna Verma	Indian Institute of Technology	New Delhi

S. No.	ABS No.	Title	Presenting Author	Institution	City
P25	72	Thermo-Responsive Acrylamide–based Terpolymer for Injectable Drug Delivery Applications	Vaibhavi Sathe	CSIR-NCL Pune	
P26	73	Separation of Nickel(II) and Cobalt(II) from Aqueous Streams by Complexation Utilizing a Sulfonic Acid Containing Monomer Based Anionic Polymer	Shivachalappa Mahadev Pyati	CSIR-NCL Pune	
P27	75	ROS-Responsive Hydrogel-Based Microneedles for Next-Generation Nanotherapeutics	Rowena Valeen Anchan	Yenepoya (Deemed to be University)	Mangalore
P28	76	Development of amphiphilic polymeric nanoconstruct as a drug delivery platform for the treatment of triple-negative breast cancer	Suchithra Bangera	Yenepoya (Deemed to be University)	Mangalore
P29	77	Dextran Based Nanocarriers with ROS Scavenging Nanozyme to Treat Ulcerative Colitis in Drosophila Model	Arukshitha Vishnupriya	Yenepoya Research Centre	Mangalore
P30	83	Waste PET-Derived BHET as a Dynamic Architect for Bio-based Self-Healing Polyurethanes with Tuneable Strength and Reversible Adhesion	Sourav Ghosh	Indian Institute of Technology	Roorkee
P31	84	Sustainable Triboelectret Nanogenerator from Chemically Tailored Cellulose for Wearable Electronics	Sunidhi Mishra	Indian Institute of Technology	Saharanpur
P32	86	Development of Sustainable Polyurethane Films from Lignin-Derived Triphenols: Hydrophobic, UV-Shielding, and Anticorrosive Properties	Pandey Brij Bhushan Santosh	The Maharaja Sayajirao University of Baroda, Kalabhavan	Vadodara
P33	87	Synthesis and characterization of Keratin-Cellulose Acetate -Polypyrrole-based conductive nanofiber scaffold for biomedical application	Nitesh Kumar	Govt. Digvijay Auto PG College	Rajnandgaon
P34	94	Bioinspired Functional Ternary Nanocomposite as an Efficient Flame-retardant Intumescent Surface Coating Material	Himanshu Kumar Bhatt	IISER	Bhopal
P35	96	Research on chitosan-modified polyurethane foam and its application in textile dye removal	Vikash Ganvit	The Maharaja Sayajirao University of Baroda	Vadodara

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P36	99	Extracellular Matrix-Inspired Alginate/Magnesium Phosphate Nanofibers Coated 3D-Printed PLA Scaffolds for Enhanced Mineralization and Osteogenic Response	Kajal Goswami	Indian Institute of Technology Mandi	Mandi
P37	100	High-Performance Fire-Resistant Epoxy Nanocomposites Reinforced with Halloysite Nanotubes	Devanand Bambole	Sant Longowal Institute of Engineering & Technology (SLIET)	Chandrapur
P38	106	Dual-and Triple-Dynamic Graphene Oxide-Enabled Epoxy Vitrimer Laminates with Closed-Loop Circularity	Ashis Halder	Indian Institute of Science	Bengaluru
P39	112	Bacterial cellulose: A versatile polymer for biological applications	Navya Kapoor	Indian Institute of Technology	Mandi
P40	114	Castor oil-based porous polyurethane composite foams using PDMS/MWCNT for oil-absorption application	Madhu Matang	The Maharaja Sayajirao University of Baroda	Vadodara
P41	121	Waste Material as a Biobased Source of Calcium Carbonate in the Preparation of Styrene–Butadiene Rubber Composites	Bhushan Subhash Patil	Kavayitri Bahinabai Chaudhari North Maharashtra University	Jalgaon
P42	124	Design and Synthesis of Polymeric Resins Using Renewable Sources for Formulating Coatings Suitable to Food Industry	Pallavi Vikas Gite	University Institute of Chemical Technology, KBC North Maharashtra University	Jalgaon
P43	125	High Energetic Materials: Performance and Application in Propellants and Explosives	Saurabh Gajanan Patil	School of Chemical Sciences, KBC North Maharashtra University	Jalgaon
P44	129	Synthesis of chitosan functionalized photochromic dye as responsive biomaterial	Tannu	Netaji Subhas University of Technology	Delhi
P45	141	Efficiently Exfoliated MXene/Polydimethylsiloxane (PDMS)/SWCNT Nanocomposites for Flexible Resistive Strain Sensors with Ultra-Low Temperature Tolerance	Murali E	Indian Institute of Technology	Jammu

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P46	149	Flame retardant PP bio composites filled with ATH, APP and APP@nano-ATH microcapsules reinforced with surface modified sisal fiber (SF): Investigation of the mechanical, thermal, morphological and flammability properties of PP bio-composites.	Malaya Ranjan Parida	CIPET: SARP-LARPM, Patia, Bhubaneswar	Bhubaneswar
P47	155	Development of Fluorescent Chitosan for solid state multicolor emission and Environmental remediation	Keshav Kumar	Netaji Subhas University of Technology	New Delhi
P48	161	Nanofiller-Reinforced Polyacrylamide Hydrogels as pH-Responsive Deferoxamine Delivery Platforms: Synthesis, Characterization, and Computational Insights	Sudharshan Prabhu	Manipal School of Life Sciences	Parkala
P49	162	Development of cross-linked Chitosan- azodye Schiff bases porous material for biomedical applications	Priyanka Kumari	Netaji Subhas University of Technology (NSUT)	Delhi
P50	176	Radiation mediated development of bifunctional adsorbents containing amino and phosphonic groups for metal ion sequestration	Shubhangi Atmaram Shelkar	Bhabha Atomic Research Centre	Mumbai
P51	184	Taro peel derived-carbon dots incorporated biodegradable chitosan-based films for active food packaging: Waste-to-wealth approach	Umisha Kalia	Indian Institute of Technology	Mandi
P52	186	Mechanistic Insights into the Organocatalyzed Ring-Opening Polymerization of ε-Caprolactone: A DFT Investigation	Naseefa Nidha Kp	Indian Institute of Science Education and Research	Bhopal
P53	191	Paper industry waste valorization for the synthesis of Polyhydroxybutyrate (PHB) bioplastic	Dimple Singh	Indian Institute of Technology	Roorkee
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P55	202	Bio-Based Antidegradant System for Natural Rubber Composites	Yogesh Jadhav	Birla Institute of Technology and Science Pilani	Goa

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P60	237	Fabrication of carrageenan-based nanocomposite films using CeO2 and lignin nanoparticles	Payal Malik	SLIET, Longowal, Punjab	Sangrur
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P63	252	An Anti-Freezing, Self-Adhesive PAM/PVA/Ni@CNTs Double-Network Hydrogel for Wearable Strain Sensing at Sub-Zero Temperatures	Pooja Arulmurugan	Vellore Institute of Technology	Chennai
P64	254	Citrus reticulata biomass derived biofilm for sustainable food packaging application	Amritanshu Pathak	UPES	Dehradun
P65	268	3D Printed Citric Acid Loaded Bentonite / PCL Scaffolds for treatment of Critical-Size Bone Defects	Salil Gupta	Indian Institute of Technology	Mandi
P66	271	Decoding the Molecular Origins of Composition-Dependent Hydration and Transport in Choline-Geranate Ionic Liquids through Molecular Structure-Dynamics Correlations	Dipesh Gehlot	Maulana Azad National Institute of Technology	Bhopal

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P67	272	TfOH-Mediated Concurrent Nitrile Cyclotrimerization and Benzoxazine Ring-Opening towards Triazine-Rich Polybenzoxazine Thermosets	Jigyasa Tripathi	Shiv Nadar Institution of Eminence	Delhi NCR
P68	277	Macrocycle derived Covalent Organic Framework via Interfacial Linker Exchange	Nikhil Bareth	Indian Institute of Science Education and Research	Bhopal
P69	280	Highly Stretchable and Sensitive Hydrogels for Human Motion Detection	Naila Nousheen	NIT Srinagar	
P70	286	Development and Characterization of rGO/Poly(AAm)-Grafted Olibanum Conductive Hydrogel for Flexible Triboelectric Nanogenerator	Asma Shahzadi	NIT Srinagar	
P71	290	AI-Assisted Microplastic Removal from Water and Wastewater: A Critical Review of Conventional, Advanced and Hybrid Treatment Technologies	Shriya Das	CIPET: SARP-LARPM	Bhubaneswar
P72	291	Green Solvent-Assisted Upcycling of Crosslinked Industrial Solar-Grade EVA Trimmings into Value-Added EVOH-Based Material	Keshav Sharma	CIPET: SARP-LARPM	Bhubaneswar
P73	293	Development of Polymer based multifunctional hydrogel as a therapeutic platform for modulating Inflammatory Bowel Disorder (IBD)	Disha Pramanick	Indian Institute of Technology	Mandi
P74	294	Development and Functional Characterization of Oxidized Guar Gum-Based Films for Active Food Packaging	Vidya Sawant	Institute of Chemical Technology Mumbai	
P75	296	In-vitro evaluation of the role of mesenchymal stem cells (MSCs) in the management of reactive astrogliosis in spinal cord injury	Muskan Sharma	Indian Institute of Technology	Ropar
P76	298	Sustainable Indoor Panels from Agricultural Biomass Residues: A Critical Review of Materials, Processing and Performance	Armaandeep Kaur	Panjab University	Chandigarh
P77	300	Modification of plant protein by dynamic high-pressure microfluidization (DHPM) for development of emulsion-filled gels (EFGs)	Garima Yadav	NIFTEM-Kundli	Sonipat
P78	306	Biomimetic Citric Acid-Mediated Dual-Crosslinked Scaffold remodels the niche post Spinal Cord Injury by promoting functional recovery and reducing inflammation	Manini Bhatt	Indian Institute of Technology	Ropar

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P79	309	Engineering a multifunctional and Biocompatible Hemostatic System for Accelerated Hemostasis	Shreyash Vijay Andagonde	Indian Institute of Technology	Mandi
P80	318	Spectroscopic Investigation of Metformin Interactions with NaDC Micelles and BSA for Drug Delivery Applications	Yogita Nanabhau Salave	Netaji Subhas University of Technology	New Delhi
P81	322	Epoxidation of vegetable oils, their ring opening polymerization for polyurethane foam application	Sachin Sonawane	School of Chemical Sciences, KBCNMU	Jalgaon
P82	325	Gauging Molecular Interface Architectonics of Amide Functionalization MWCNT@Metal Oxide for Energy Storage Devices	Anuj Shrivastava	Visvesvaraya National Institute of Technology	Nagpur
P83	326	Earth's Living Sensors: Lichen-Inspired Biopolymers for Air Quality Monitoring	Yamini Mishra	Indian Institute of Technology Delhi	New Delhi
P84	329	Development of Polymeric Lipidic-Sponge-Droplet Forming Materials For Biomedical Applications	Tanmoy Jana	IISER	Bhopal
P85	332	In situ Mineralized Bone Matrix Micro-composite Bioink for Bone Regeneration	Trisha Raghav	Indian Institute of Technology	Mandi
P86	338	Comparative Evaluation of Native Pseudomonas Isolates for Microbial Degradation of Kraft and Alkali Lignin	Neelam Soni	Institute of Chemical Technology	Thane
P87	342	Impeller-Driven Mixing and Rheological Effects on γ-PGA Production in a Bioreactor	Vinayak Subhashrao	Institute Of Chemical Technology	Mumbai
P88	OFF-05	MXene-Functionalized SWCNT/Polyurethane Nanocomposite for Flexible Thermoelectric Module	Saurabh Kumar Jha	Indian Institute of Technology Delhi	New Delhi
P89	OFF-06	Design, Synthesis of Tetraphenylbuta-1,3-diene Based Solid-State Emissive Porous Organic Polymers and their Applications	Runa Mondal	SRF, IACS	Kolkata

List of Delegates

S. No.	Name	Institution	City	Country
1	Abhimanew Dhir	Indian Institute of Technology	Mandi	India
2	Akanksha Gupta	Dwarka	New Delhi	India
3	Amutharasan M	Indian Oil Corporation of India		India
4	Anup Ghosh	Indian Institute of Technology Delhi	New Delhi	India
5	Anupam Gupta	Smartbio Innovations	New Delhi	India
6	Arun Torris	CSIR National Chemical Laboratory	Pune	India
7	Ashish Pandey	Thermo Fisher Scientific India Pvt. Ltd.		India
8	Atul Atkale	Reliance Industries Limited		India
9	Bhuvanesh Gupta	Indian Institute of Technology	Ropar	India
10	Devika Benoy	Schrödinger	Bangalore	India
11	Dhananjay Kandakure	Rotary Club of Aurangabad Metro		India
12	Dhananjay Sharma		Bhopal	India
13	Hrishikesh Joshi	Anatek Services Pvt Ltd		India
14	Jyoti Chaudhary	Mohanlal Sukhadia University	Udaipur	India
15	K. K. Choudhary	Indian Military Academy (IMA)	Dehradun	India
16	Manjima M P	Yenepoya Research Centre	Mangalore	India
17	Manohar Badiger	NCL	Pune	India
18	Mayank Dwivedi	DRDO	New Delhi	India
19	Mercy Jatindro Sabar	Indian Oil Corporation of India		India
20	MS Alam	Indian Institute of Technology Delhi	New Delhi	India
21	Murtuza Channiwala	The Maharaja Sayajirao University Baroda, Vadodara	Surat	India
22	Nisha Mishra	NMU	Jalgaon	India
23	NM Gupta		New Delhi	India
24	Paramita Das	Indian Institute of Science Education and Research	Bhopal	India
25	Prashant B. Shingwekar	S.G.B.Amravati University	Amravati	India
26	Raghuvir Singh Tomar	IISER	Bhopal	India
27	Raj Kumar Jaiswal	Scientific Research Instruments Company Pvt. Ltd.		India
28	Rajeev Ahuja	Indian Institute of Technology	Ropar	India
29	Ram Singh	FlyOla Aviation	Gurugram	India
30	Ria Sen Gupta	Airbus India Pvt Ltd	Bangalore	India
31	Richa Kapoor	Waters India Pvt. Ltd.		India
32	Sai Phani Kumar Vangala	Indian Institute of Science Education and Research	Bhopal	India
33	Sandesh Kumar Jain	CIPET-Bhopal	Bhopal	India
34	Sangita Badiger	NCL	Pune	India
35	Sanjay K. Nayak	Balrampur Chini Mills Limited-PLA division		India

S. No.	Name	Institution	City	Country
36	Sanjit Konar	IISER	Bhopal	India
37	Santosh Gupta		Agra	India
38	Satyajit Karandikar	Karandikars Orgochem Pvt. Ltd.	Navi Mumbai	India
39	Satyendra Mishra	NMU	Jalgaon	India
40	Savita Dixit	MANIT	Bhopal	India
41	Shailja Sharma		Bhopal	India
42	Shiv Upadhyay	Indian Institute of Technology Delhi	New Delhi	India
43	Sikhar Patranabis	IBM Research India	Bangalore	India
44	Sneh Banger		Rochester	USA
45	Sonam Soumyashree	Thermo Fisher Scientific India Pvt. Ltd.		India
46	Sudhir Jain	CIPET	Bhopal	India
47	Sundeep Singh	Anatek Services Pvt Ltd		India
48	Sunil Dhamaniya	Reliance Industries Limited		India
49	Suresh Bhat	CSIR-National Chemical Laboratory	Pune	India
50	Suresha P. R.	CSIR-National Chemical Laboratory	Pune	India
51	Tanweer Alam	IIP	New Delhi	India
52	Utkarsh Singh	Scientific Research Instruments Company Pvt. Ltd.		India
53	Vamshi Kiran	Waters India Pvt. Ltd.		India
54	Vikas Gangadhar	Scientific Research Instruments Company Pvt. Ltd.		India
55	Virendra Gupta	Reliance Industries Limited	Mumbai	India
56	Vishal Malhotra	Presto	Faridabad	India
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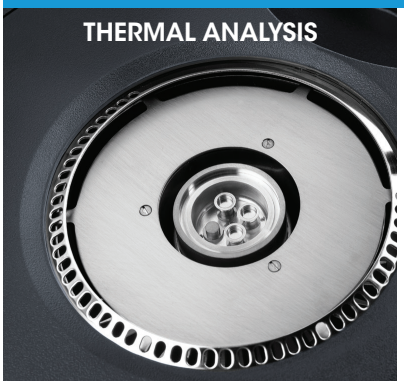
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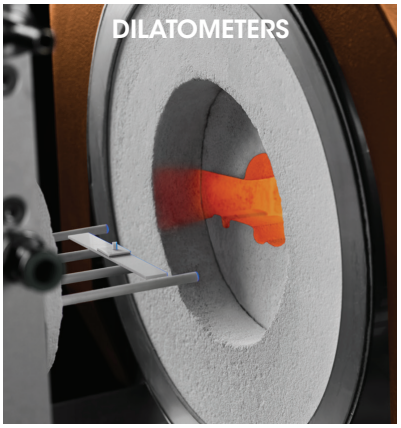
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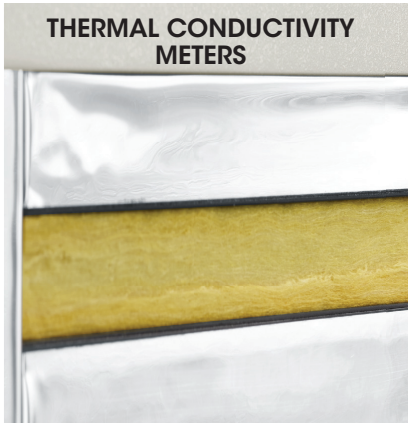








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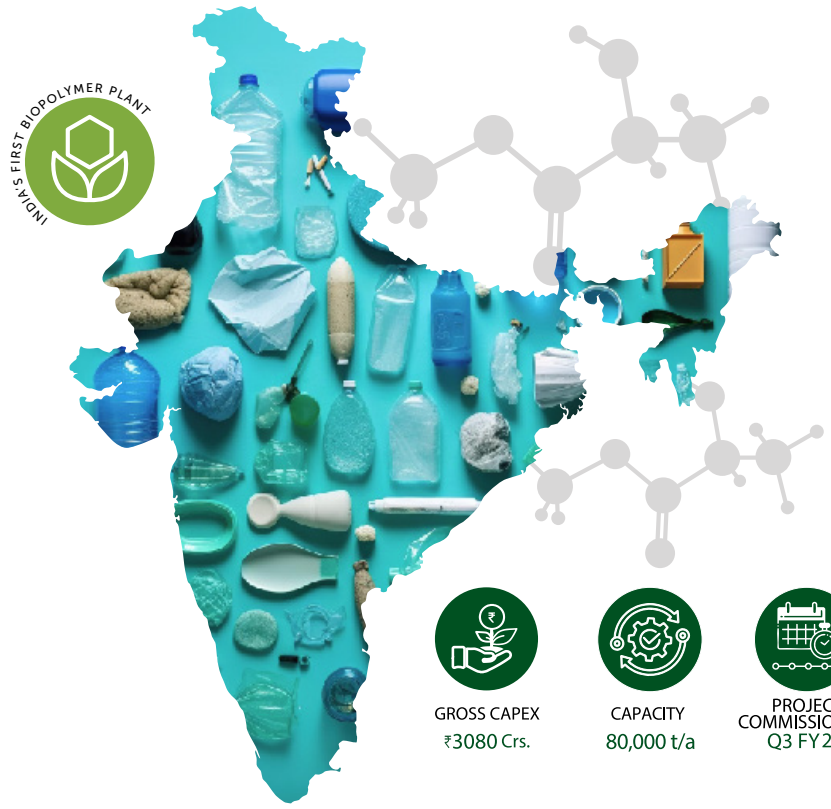
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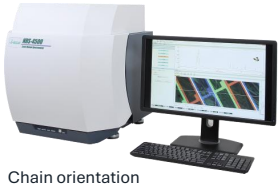
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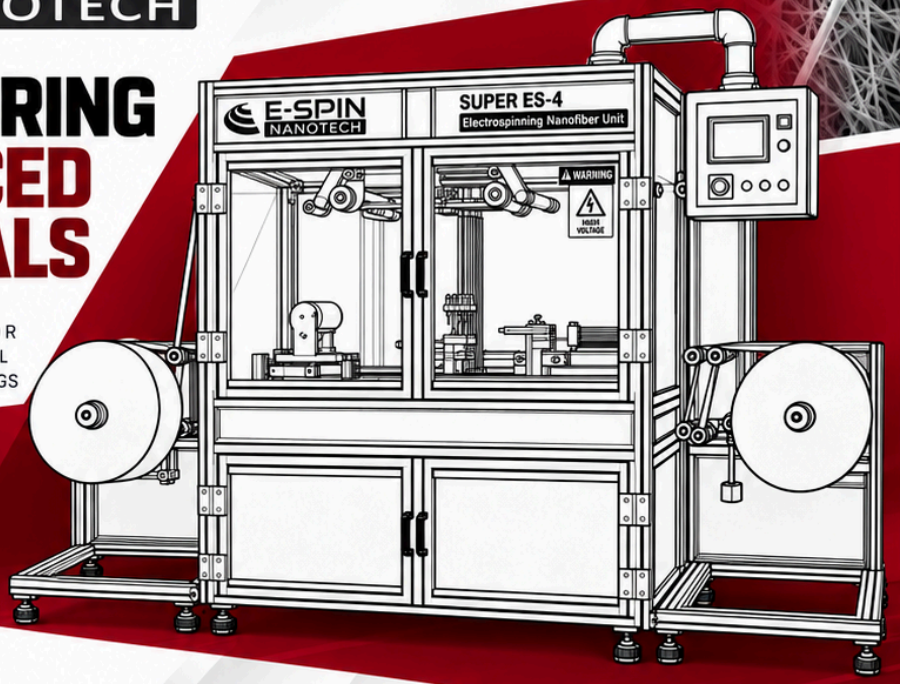
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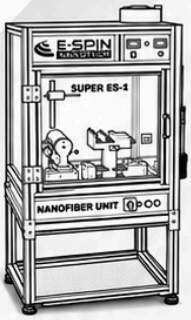
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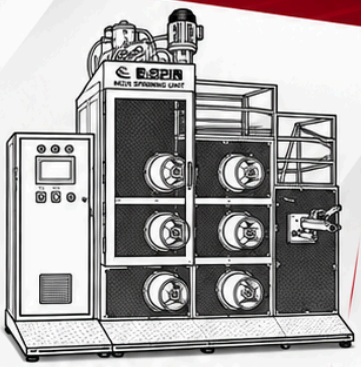
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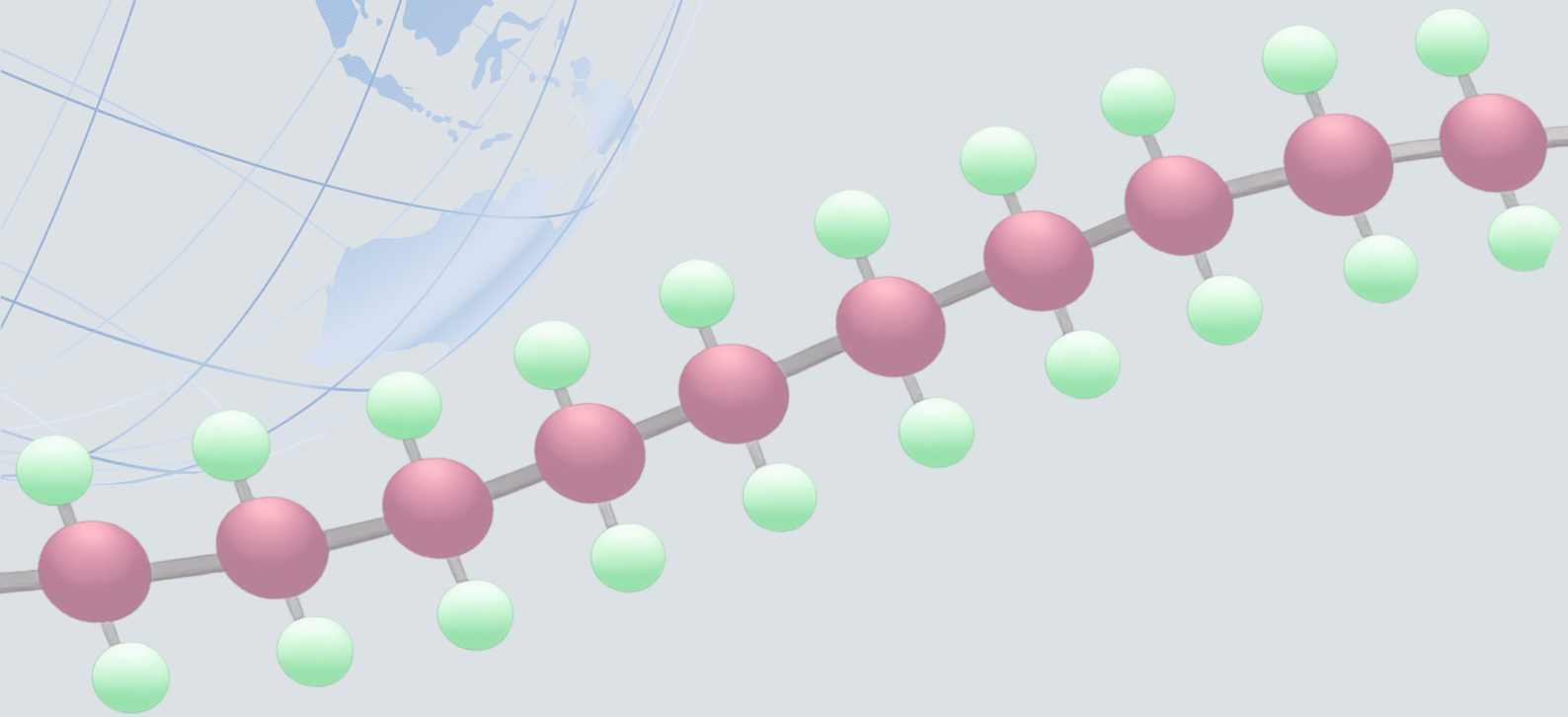
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