

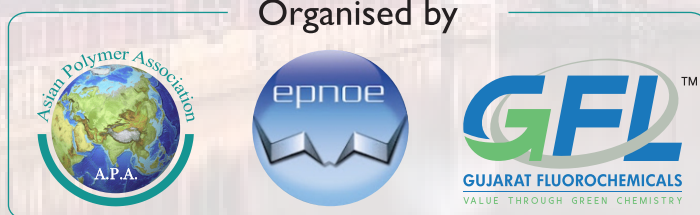


APA-EPNOE-GFL International Conference on

Polymers for Advanced Technology

16-18 October, 2024 | Jaipur, India

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ASIAN POLYMER ASSOCIATION



Bhuvanesh Gupta
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Message from the President, Asian Polymer Association

The Asian Polymer Association (APA) stands as a distinguished international platform, uniting a dynamic community of polymer scientists and technologists from across the globe. With members spanning multiple nations, APA is committed to fostering innovative collaboration and advancing the frontiers of polymer science and technology. In partnership with Gujarat Fluorochemicals Limited (GFL) and the European Polysaccharide Network of Excellence (EPNOE), APA is proud to host the International Conference on Polymers for Advanced Technology, scheduled to take place in Jaipur from October 16-18, 2024. This conference will provide an unparalleled opportunity for in-depth engagement and knowledge exchange among global leaders in the polymer field. It will serve as a pivotal forum for the discussion of cutting-edge developments and emerging trends within the international polymer community.

A key focus of the event is nurturing the next generation of polymer scientists and innovators. The conference will feature competitive programs with prestigious awards across various categories, designed to inspire and recognize excellence among young researchers. Additionally, the conference will spotlight special symposiums on critical topics such as hydrogen energy, bioengineering, nanotechnology, packaging, and sustainability—issues that are driving the future of polymer science. On behalf of APA, I extend a warm invitation to all participants and look forward to welcoming you in Jaipur. We are confident that this conference will not only be an intellectually enriching experience but also a visionary event that shapes the future of our field.

Bhuvanesh Gupta

European Polysaccharide Network of Excellence



Pedro Fardim
EPNOE President

Department of Chemical Engineering
KU Leuven
Celestijnenlaan 200F bus 2424
Leuven Chem & Tech -3rd Floor
B-3001 Leuven, Heverlee
Belgium



Message from the EPNOE President

The European Polysaccharide Network of Excellence (EPNOE), a non-profit association with 60 member institutions from 20 European countries, is thrilled to collaborate with the Asian Polymer Association (APA) to host the APA-EPNOE-GFL International Conference on Polymers for Advanced Technology 2024 in beautiful Jaipur. This conference comes at a crucial time as our world faces significant challenges like climate change, inequality, and political instability. We believe that scientists, educators, and innovators have a vital role to play in finding solutions and fostering a new generation of researchers, engineers, and professors equipped with the skills to address these complexities creatively, proactively, and inclusively. EPNOE and APA are committed to supporting young researchers and building international collaborations. We believe that polymers are essential for our future and that innovative breakthroughs in sustainable production, processing, recycling, and structure-property relationships require deep scientific understanding and collaborative efforts with industry, policymakers, and stakeholders. Let us come together in Jaipur to learn from each other, build new collaborations, and forge partnerships that will shape a more sustainable future.

Pedro Fardim

Kapil Malhotra
Global Business Unit Head



Message from Kapil Malhotra (GFL)

As the Global Business Unit Head at Gujarat Fluorochemicals Limited (GFL), it is both an honor and a privilege for us to partner with the Asian Polymer Association (APA) in associating with the upcoming International Conference on Polymers for Advanced Technology in Jaipur from October 16-18, 2024. This conference is particularly meaningful as it brings together leading scientists, technologists, and industry professionals to engage in forward-thinking discussions that shape the future of polymer technologies. The conference is committed to advancing the boundaries of innovation within the polymer industry where the message will be towards research and development efforts driven by a vision to deliver cutting-edge materials and sustainable solutions that address the evolving demands of global markets.

The partnership between GFL and APA is a strategic alignment of industry and academia—one that fosters collaboration at the intersection of theoretical research and industrial application. This conference offers a unique opportunity for us to engage with the brightest minds in the field, share our experiences, and contribute to shaping next-generation polymer technologies. We are particularly excited about the focus areas of this conference, including hydrogen energy, bioengineering, nanotechnology, sustainability, and fluoropolymers. We look forward to meaningful interactions with stakeholders and hope that this platform will drive impactful collaborations for the future.

On behalf of GFL, I would like to extend my sincere gratitude to APA and all participants for making this conference a truly global event. Together, we can drive innovation and harness the potential of advanced polymer technologies to benefit both industry and society at large.

Kapil Malhotra
Email ID: kapilmalhotra@gfl.co.in
Gujarat Fluorochemicals Limited



APA 2024
Jaipur

Executive Committee

Conference Chairs



Bhuvanesh Gupta
APA President
IIT Delhi, India



VK Soni
GFL, India



Pedro Fardim
EPNOE President
KU Leuven, Belgium

Conference Co-Chairs



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India



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India



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Manohar V. Badiger
CSIR-NCL, Pune
India

Secretary



Susheel Kalia
IMA, Dehradun
India

Joint Secretary



Chetna Verma
IIT Delhi
India

Forum Symposium Chairs

Sustainability Forum



VK Gupta
RIL, Mumbai
India

Bio Forum



BS Kaith
NIT Jalandhar
India

Nano Forum



Yashveer Singh
IIT Ropar
India

Pharma Forum



MS Alam
Jamia Hamdard
India

Packaging Forum



Tanweer Alam
IIP Delhi
India



Plenary Speakers



Didier Letourneur
INSERM, Paris, France



Bruno Ameduri
ENSCM, Montpellier, France



Joëlle Amédée
Univ. of Bordeaux, France



Már Másson
Univ. of Iceland, Iceland



VK Gupta
RIL, Mumbai, India



Suprakas Sinha Ray
CSIR, Pretoria, S. Africa



APA 2024
Jaipur

APA Awards 2023



Joëlle Amédée
Bordeaux, France



Manohar V. Badiger
NCL, Pune, India



Bruno Ameduri
Montpellier, France



Pradip K Maji
IIT Roorkee, India



Tabli Ghosh
Tezpur Univ., India

APA Awards 2024



Bruno Ameduri
Montpellier, France



VK Gupta
RIL, India



BS Kaith
NITJ, India



Amit Jaiswal
IIT Mandi, India



Amit Nain
IISc, Bangalore, India



APA Distinguished Award 2023



Joëlle Amédée Vilamitjana
University of Bordeaux
France

Joëlle Amédée Vilamitjana, PhD in Cell and Molecular Biology, is Research Director at Inserm at the University of Bordeaux, France. From 2007 to 2015, she has managed the Inserm laboratory, Tissue Bioengineering (BIOTIS), a multidisciplinary team of researchers, engineers and clinicians focused on bone and vascular substitution. Joëlle Amédée Vilamitjana was inducted as an International Fellow in Biomaterials Science and Engineering by the International Union of Societies for Biomaterials Science and Engineering (IUSBSE). She has been elected as a Council Member of the European Society for Biomaterials, and was Vice-President of the ESB from 2015 to 2019. In 2023, she received the Klaas de Groot Award, a prestigious recognition by the European Society for Biomaterials of scientists. She is now the President of the French National Society for Biomaterials (BIOMAT). She is co-author of more than 140 peer-reviewed publications, co-author of 4 international patents and around 200 communications.

APA Distinguished Award 2024



Bruno Ameduri
ENSCM, Montpellier
France

CNRS Research Director at the Institute Charles Gerhardt, Bruno Ameduri became an internationally expert on the synthesis and characterization of fluoropolymers (Fps). Co-inventor of 80 patents, he has co-authored >430 peer-reviewed publications, >50 book Chapters or reviews, (co)edited 7 books. In the last two decades, his team has made giant strides in developing FP field and applications (collaborating with various International and French companies and many academic Labs). Bruno earned the 2024 International Award from the SPSci. Japan and Asia Polymer Association. Besides Science, Bruno enjoys cycling and has some volunteered cliniclown activities to visit sick children in hospitals of Montpellier and Japan.



APA ICON Award 2023



Manohar V. Badiger
National Chemical Laboratory
Pune, India

Dr. Manohar V. Badiger is an Emeritus Scientist at the Polymer Science and Engineering Division of CSIR-National Chemical Laboratory (CSIR-NCL), Pune in the field of Hydrogels, Superabsorbent Polymers (SAPs), Water-soluble Polymers, and Electro-spinning of polymers for Bio-medical applications. He was a European Commission-DST Young post-doctoral Fellow at the University of Strathclyde, Glasgow, UK during 1991-1993. He was also a Humboldt Fellow at the Johannes Gutenberg University, Mainz, Germany during 1997-1999. In 2004, 2005, 2008, he was a visiting Scientist at ESPCI, Paris, France. In 2016, he was a visiting at the Kyushu University, Fukuoka, Japan. He has published 120 research papers in reputed International journals (~ 3200 citations) and granted 5-US patents. He has contributed to both academic and industrial projects at NCL and guided 16 Ph.D. students and several Masters students. He has given more than 50 Invited talks in International Conferences and chaired the scientific sessions. He is the President of the Humboldt Academy, Pune.

APA Icon Award 2024



Virendra K. Gupta
Reliance Industries Ltd
Mumbai, India

Dr Virendra K Gupta is R&D Head - Polymer & Senior Vice President, Reliance Industries Limited, Mumbai with interests in developing sustainable plastic and elastomer technology for providing solutions in Energy Transition, Packaging & Agriculture. Dr Gupta has translated his work into Commercial Technologies implemented first time in India and currently Operational in Industries. Dr Gupta is Fellow of The National Academy of Sciences, India (FNASc), Fellow of National Academy of Engineering, India (FNAE) Fellow of International Association of Advanced Materials (FIAAM) and a recipient of 27 Technology and Product Development Awards from Govt of India and Industrial Organizations. He has 120 publications with 229 patents granted / filed globally for 35 commercialized technologies and new developments. He is also Member of reputed National and International Society/Organizations.



APA Social Award 2023



Bruno Ameduri
ENSCM, Montpellier
France

CNRS Research Director at the Institute Charles Gerhardt, Bruno Améduri became an internationally expert on the synthesis and characterization of fluoropolymers (Fps). Co-inventor of 80 patents, he has co-authored >430 peer-reviewed publications, >50 book Chapters or reviews, (co)edited 7 books. In the last two decades, his team has made giant strides in developing FP field and applications (collaborating with various International and French companies and many academic Labs). Bruno earned the 2024 International Award from the SPSci. Japan and Asia Polymer Association. Besides Science, Bruno enjoys cycling and has some volunteered cliniclown activities to visit sick children in hospitals of Montpellier and Japan.

APA Social Award 2024



BS Kaith
NIT Jalandhar
India

Professor Balbir Singh Kaith joined NIT Jalandhar in 2007 as Professor of Chemistry. Before joining NIT Jalandhar served NIT Hamirpur for about 16 years in the capacity of Assistant Professor and Associate Professor. Also served as Registrar, Dean Students Welfare and Dean Academic. Prof. Kaith has 300 research papers, (Citations: 11,657, h-index- 54 and i10 --Index - 170). Professor Kaith is coordinating PRAYAAS Society at NIT Campus Jalandhar (about 500 students) for the upliftment of poor children so that one day they could come-up with the main stream of the best citizens of this Great Nation.



APA Young Scientist Award 2023



Pradip K Maji
Indian Institute of Technology
Roorkee, Saharanpur, India

Dr. Pradip K. Maji holds the position of Professor in the Department of Polymer and Process Engineering at IIT Roorkee, India. Dr. Maji earned his Ph.D. from IIT Kharagpur, where he worked on coating for cryogenic engines pivotal for ISRO missions. His academic prowess was recognized with the "Gold Medal" from the University of Calcutta in M.Tech. in Polymer Science and Technology. Dr. Maji's expertise extends as scientist at Toyota Technological Institute, Japan, and received the JSPS Professional Fellowship in 2022. He has authored over 145 peer-reviewed international research papers, several book chapters, monographs, and a few patents. Furthermore, Dr. Maji's exceptional contributions to the field of science have been highlighted in the list of top 2% Scientists Worldwide published by Elsevier/Stanford in 2023. Recently, he has taken on the role of Associate Editor in Sustainable Chemistry and Pharmacy Journal, a prestigious publication by Elsevier

APA Young Scientist Award 2024



Amit Jaiswal
Indian Institute of
Technology Mandi
Mandi, India

Dr. Amit Jaiswal earned his B.Tech. degree in Biotechnology from Heritage Institute of Technology Kolkata in 2008, followed by an M.Tech. in Biotechnology from IIT Guwahati in 2010. He obtained his Ph.D. from IIT Guwahati in 2013 and continued post-doc at Washington University USA and Technion – Israel Institute of Technology, Haifa. In 2014, Dr. Jaiswal joined IIT Mandi as an Assistant Professor and currently holds the position of Associate Professor in the School of Biosciences and Bioengineering, IIT Mandi. His research focuses on the field of nano-biotechnology. He has been honored with the DAE Young Scientist Research Award in 2017 and the MAHE Young Scientist Award in 2018. He is also an Associate of the Indian Academy of Sciences since 2020. Dr. Jaiswal's also received INSA medal for young scientists. He has authored more than 50 peer-reviewed journal articles and contributed to 5 book chapters.



APA Young Researcher Award 2023



Tabli Ghosh
Tejpur University
Tejpur, India

Dr. Tabli Ghosh is currently working as an Assistant Professor in the Department of Food Engineering and Technology, Tezpur University, Tezpur, Assam, India. Dr. Ghosh obtained her Ph.D. from Indian Institute of Technology Guwahati, India. Her Ph.D. work focused on developing and evaluating the effectiveness of functional biopolymeric nanocomposite based edible nano-coatings and sustainable secondary packaging of food products. She has been the Gold Medallist in the Bachelor of Technology at Tezpur University, India. She has also been the Gold Medallist in the Master of Technology at Tezpur University, Dr. Ghosh has authored one book entitled "Nanotechnology in Edible Food Packaging" and edited one book entitled "Advances in Sustainable Polymers: Processing and Applications" published by Springer Nature. Further, she has published more than 70 research articles, review articles, and book chapters. Dr. Tabli has also awarded with Best Poster Awards in national and international conferences.

APA Young Researcher Award 2024



Amit Nain
IIT Madras
Chennai, India

Amit Nain is Assistant Professor at Indian Institute of Technology, Madras, Chennai India. He did his B Tech from VIT Vellore, India and PhD from, National Tsing Hua University, Hsinchu, Taiwan. He was DST inspire faculty at IISc Bangalore. His research interest are Nanomaterial Design and Engineering; Programmable Biomaterials; 4D Printing, and Tissue Engineering. He has delivered several invited talks in institutions across India.



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Kumar Mukesh	UPTTI, Kanpur		

Springer Oral Contest

Chairs: Deepak Pathania, CU Jammu, India & Jyoti Chaudhary, MLSU, Rajasthan, India

Name of the Participants	
Akanksha Ranade	Thapar Institute of Eng. and Tech., Patiala
Prachi Jain	Indian Institute of Technology, Roorkee
Arthi Chandramouli	Amrita vishwa Vidhyapeetham, Ponекkeа
Pooja Rani	Indian Institute of Technology, Kanpur
Parvathy P A	CSIR-NIIST, Thiruvananthapuram
Amrutha Datla	Indian Institute of Technology, Hyderabad
Divya Pareek	Institute of Sciences, BHU, Varanasi



APA 2024
Jaipur

Wiley Oral Contest

Chairs: Susheel Kalia, IMA, Dehradun, India & B. S. Kaith, NIT Jalandhar, India

Name of the Participants

Himanshi Diwan	Indian Institute of Technology, Mandi
Diksha Lingait	VNIT, Nagpur
Rohini Verma	Indian Institute of Technology, Delhi
Kalpana Rathore	Indian Institute of Technology, Kanpur
Anurag Kumar	Indian Institute of Technology, Hyderabad
Asish Kumar Sahu	Ravenshaw University, Cuttack
Sakshi Gupta	Dr. S.S.B UICET Panjab University, Chandigarh

Poster Evaluation Committee

Chairs: Susheel Kalia, IMA, Dehradun, India & Manali Somani, IIP, New Delhi, India

Panelist

Satyendra Mishra	NMU, Jalgaon, India
R. Jayakumar	Amrita Vishwa Vidyapeetham, Kochi, India
Sidharth Sirohi	BCAS, University of Delhi, India
Deepak Pathania	CU Jammu, India
Sumit Murab	IIT Mandi, India
Shamayita Patra	SVVV, Indore, India
Srarvendra Rana	UPES, Dehradun, India
Manohar V. Badiger	NCL, Pune, India
Vikas Gite	KBC, NMU, Jalgaon, India
Jyoti Chaudhary	MLSU, Udaipur, India
Mudrika Khandelwal	IIT, Hyderabad, India
Amit Jaiswal	IIT Mandi, India
BS Kaith	NIT Jalandhar
RK Goyal	MNIT, Jaipur, India

Wisdom Contest

17th Oct. 2024 | Time: 12:25-13:00

On the spot Registration of participants

Programme



APA-EPNOE-GFL International Conference on
Polymers for Advanced Technology
16-18 October, 2024 | Jaipur, India

Day-1 | 16th October, 2024 | Programme

08:00-onwards | Registration

Inauguration (Venue: Ashoka Hall) | Time: 09:00-10:20

Bouquet Presentation/ Lamp Lighting

Time: 09:00-09:05

Welcome Address

Manohar V. Badiger (Conference Chair)

Time: 09:05-09:10

APA Address

Bhuvanesh Gupta (APA, President)

Time: 09:10-09:15

EPNOE Address

Pedro Fardim (EPNOE President)

Time: 09:15-09:25

GFL Address

Vijay Kumar Soni (GFL)

Time: 09:25-09:35

Guest of Honor Address

Shishir Sinha (Director General, CIPET, Chennai)

Time: 09:35-09:50

Inaugural Address

Didier Letourneur (Chief Guest, INSERM Paris, France)

Time: 09:50-10:10

Memento Presentation

By Conference Chairs

Time: 10:10-10:15

Vote of Thanks

Susheel Kalia (IMA, India)

Time: 10:15-10:20

Inaugural Tea | 10:20 -11:00

Session 1 | Venue : Ashoka Hall

Plenary Lectures

Chairs: Anup K. Ghosh, IIT Delhi, India & Sanjay K. Nayak, Ravenshaw Univ., Cuttack, India

Plenary Lectures-1

Didier Letourneur, INSERM, Paris, France

Polymers for biomedical applications : Three examples of the Journey from Research to Patients

Time : 11:00-11:30

Plenary Lectures-2

Már Másson, University of Iceland, Iceland

Innovations in Chitosan Research: From Antimicrobial Properties to Advanced Drug Delivery Systems

Time : 11:30-12:00

Plenary Lectures-3

Suprakas Sinha Ray, DSI-CSIR Nanotechnology Innovation Centre, South Africa

Sustainable Polymer Blend Nanocomposites - A Perspective on Morphology Evolution and Property Expression

Time : 12:00-12:30

Plenary Lectures-4

Virendra Kumar Gupta, Reliance Industries Ltd, Mumbai, India

Emerging Directions in High Performance Polymers and Composites Materials for Smart Applications

Time: 12:30-13:00

Lunch Break | 13:00 - 14:00

Session 2 : EPNOE Symposium on Polysaccharides

Chairs: Már Másson, Reykjavík, Iceland &
Joëlle Amédée, INSERM, Bordeaux, France

Venue: Ashoka Hall

Time	Lecture	Title/Author
14:00-14:25	KN	Engineering Chitosan Biohybrid Hydrogels for Advanced Wound Healing Pedro Fardim KU Leuven, Belgium
14:25-14:45	IL	Transparent cellulosic composites- fabrication and applications Archana Samanta Indian Institute of Technology Delhi, New Delhi, India
14:45-15:05	IL	Functional Designing of Tragacanth Gum Nanogels for Anticancer Drug Delivery Deepak Pathania Central University of Jammu, Jammu, India
15:05-15:25	IL	Antibacterial and Hemostatic Polymeric Hydrogels Jayakumar Rangasamy Amrita Vishwa Vidyapeetham, Kochi, India

Session 3 : GFL Symposium on Hydrogen Energy

Chairs: Bruno Ameduri, ENSCM, Montpellier, France &
Günther G. Scherer, PSI (Formerly), Switzerland

Venue: Gulmohar Hall

Time	Lecture	Title/Author
14:00-14:25	KN	TBA Kapil Malhotra GFL, Noida, India
14:25-14:45	IL	Advances in Hydrogen-Based Polymer Electrolyte Fuel Cells: Innovations and Challenges Santoshkumar D Bhat CSIR-Central Electrochemical Research Institute Madras Unit, Madras, India
14:45-15:05	IL	Surface and interface engineering for enhanced solar-to-H ₂ conversion Bhavana Gupta UPES, Dehradun, India
15:05-15:25	IL	Solid Oxide Electrolysis Cells for Efficient CO ₂ Reduction: Materials and Mechanisms Neetu Kumari Malaviya National Institute of Technology, Jaipur, India

Session 4 : Reliance Microsymposium on Sustainability

Chairs: Prabhjot Sodhi, CEE New Delhi, India &
Smita Mohanty, CIPET, Bhubaneswar, India

Venue: Tulsi Hall

Time	Lecture	Title/Author
14:00-14:25	KN	Closed-loop circular economy in ABS Vitrimers Suryasarathi Bose IISc, Bangalore, India
14:25-14:45	IL	New Dimensions of Bio Polyols to be used for specific performances Jayant khadilkar Jay Elastomers Pvt Ltd, Navi Mumbai, India
14:45-15:05	IL	Compostable Polymer Nanocomposites Films for Flexible Packaging Jayita Bandyopadhyay Council for Scientific and Industrial Research, South Africa
15:05-15:25	IL	Polymers in Circular Economy: An approach to sustainability for Indian Industries Anil Kumar Satapathy Finolex Industries Limited, Ratnagiri, India

Tea Break | 15:25 - 15:40

Session 5 : APA Microsymposium on Biomaterials

Chairs: Didier Letourneur, INSERM, Paris, France &
Amit Jaiswal, IIT Mandi, India

Venue: Ashoka Hall

Time	Lecture	Title/Author
15:40-16:00	IL	Polysaccharides-nanoparticle hydrogels for biomedical applications Havazelet Bianco-Peled <i>Technion - Israel Institute of Technology, Israel</i>
16:00-16:15	OL	Moringa oleifera Enriched Carrageenan-PEG-Lecithin Hydrogel Membrane as an Advanced Wound Dressing Material Pratibha Singh <i>Indian Institute of Technology Delhi, New Delhi, India</i>
16:15-16:30	OL	Dissolvable microneedles for the rapid delivery of drugs: Development and evaluations Rosemary <i>HLL Lifecare Ltd., Trivandrum, India</i>
16:30-16:45	OL	Integration of homeopathy and biomedicine: Development and Evaluation of nanofibrous matrices loaded with homeopathic mother tincture of Syzygium cumini for wound healing applications Bhisham Singh <i>Manipal School of Life Sciences, Manipal, India</i>
16:45-17:00	OL	Surface-modified Polysulfone Ultrafiltration Membrane-Antibacterial and Antifouling Analysis Uttam Kumar Mandal <i>Guru Gobind Singh Indraprastha University, New Delhi, India</i>

Session 6 : Functional & Smart Materials

Chairs: Ashwini K. Agrawal, IIT Delhi, New Delhi, India &
S. Bose, IISc, Bangalore, India

Venue: Gulmohar Hall

Time	Lecture	Title/Author
15:40-16:00	IL	4D Biomaterials: Beyond three dimensions Amit Nain <i>Indian Institute of Science, Bangalore, India</i>
16:00-16:15	OL	Evaluation of anti-corrosion properties of mild steel coated with dead clay-reinforced epoxy-based polymer matrix composite Kunal Borse <i>Malaviya National Institute of Technology, Jaipur, India</i>
16:15-16:30	OL	Microwave-assisted bio-vitrimer/rGO framework for Anti-corrosion applications Sarvendra Rana <i>UPES, Dehradun, India</i>
16:30-16:45	OL	Improving the performance of thermal liner of fire protective clothing with aerogel technology Rochak Rathour <i>Indian Institute of Technology Delhi, New Delhi, India</i>
16:45-17:00	OL	Redox responsive folic acid conjugated PLA-PEG nanoparticles for co-delivery of pirarubicin & salinomycin: Targeted breast cancer therapy in-vitro and in-vivo Ankushi Bansal <i>Indian institute of Technology Delhi, New Delhi, India</i>

Session 7 : APA Microsymposium on Nanomaterial & Nanocomposites

Chairs: Suprakash Sinha Ray, CSIR, Pretoria, South Africa &
Virendra K. Gupta, RIL, Mumbai, India

Venue: Tulsi hall

Time	Lecture	Title/Author
15:40-16:00	IL	Modification of Lignin and Development of its Polymer Composites Satyendra Mishra NMU, Jalgaon, India
16:00-16:15	OL	Role of Different Layered Double Hydroxides (LDH's) on the Properties of PMMA nanocomposites: A Comparative Study Manish Kumar Harcourt Butler Technical University, Kanpur, India
16:15-16:30	OL	Enhanced dye rejection studies using nanocomposite zeolite infused PPSU membranes Vijesh A. M. Payyanur College, Payyanur, Kannur, India
16:30-16:45	OL	Phytosynthesis of Iron oxide Nanoparticle for Evaluating its Antibacterial Susceptibility Giriraj Tailor MLS University, Udaipur, India
16:45-17:00	OL	Effect of surfactants on dispersion of SWCNT in N-methylmorpholine N-Oxide for dissolution of cellulose Geetanjali Mishra The Bombay Textile Research Association, Mumbai, India

Tea Break | 17:00 -17:20

Session 8 : APA Distinguished Award Plenary Lectures

Chairs: Kapil Malhotra, GFL, Noida, India &
Pedro Fardim, KU Leuven, Belgium

Venue: Ashoka Hall

Time	Lecture	Title/Author
17:20-17:50	PL	On the Overall situation of Poly- or perfluoroalkyl substances (PFASs) and Recycling of Fluoropolymers Bruno Ameduri ENSCM, Montpellier, France
17:50-18:20	PL	Composite Polymers for Bone Tissue Engineering: Why and how to stimulate vascularization and innervation of the bone tissue? Joëlle Amédée University of Bordeaux, France

19:00-22:00 | Conference Dinner, Cultural Programme & APA Award Presentation (Green Lawn)



APA-EPNOE-GFL International Conference on
Polymers for Advanced Technology

16-18 October, 2024 | Jaipur, India

Day-2 | 17th Oct, 2024 | Programme

Session 9 : Biomaterials & Bioengineering

Chairs: Havazelet Bianco-Peled, Haifa Israel &
R. Jayakumar, AU, Cochin, India

Venue: Ashoka Hall

Time	Lecture	Title/Author
09:00-09:20	IL	Quaternized Pullulan-Based Nanoplatfoms: A Multifunctional Solution for Antimicrobial Therapy, Wound Healing, and Preventing Implant-Associated Infections Amit Jaiswal <i>Indian Institute of Technology Mandi, India</i>
09:20-09:40	IL	An Industrial Method to Produce Biocompatible Polymers, Nanocomposites and Immunomodulatory Macromolecules towards Next Generation Medical Devices and Vaccine Technology Lakshminarayanan Ragupathy <i>HLL Lifecare Limited, Thiruvananthapuram, India</i>
09:40-09:55	OL	Direct 3D Printing of Decellularized Matrix with Thermoplastics for Osteochondral Regeneration Sumit Murab <i>Indian institute of Technology, Mandi, India</i>
09:55-10:10	OL	Development of smart piezoelectric strain sensors for Breath Monitoring and Pulmonary Function Analysis Debashish Nayak <i>CIPET:SARP-LARPM, Bhubaneswar, India</i>

Session 10: Functional & Smart Materials

Chairs: Mudrika Khandelwal, IIT Hyderabad, India &
Arun Kumar Patra, UPTTI, Kanpur, India

Venue: Gulmohar Hall

Time	Lecture	Title/Author
09:00-09:20	IL	Eco-friendly Smart Self-healing Multifunctional Polyurethane Coatings and Composites Vikas Gite Kavayitri Bahinabai Chaudhari North Maharashtra Univ., Jalgaon, India
09:20-09:40	IL	Fabrication of Ecofriendly Polymeric Materials and Their Applications Balbir Singh Kaith Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India
09:40-09:55	OL	pH-Responsive Bio-based Materials for Enhanced Agricultural Fertilizer Efficiency Mehdi Khoulood UM6P, Morocco
09:55-10:10	OL	Polymer nanocomposite based low-cost flexible sensor for room temperature ammonia detection Kamlendra Awasthi Malaviya National Institute of Technology, Jaipur, India
10:10-10:25	OL	Synthesis and Modification of NBN-Integrated Vinyl Polymer to Explore High-Performance Rubber Materials: Design, Synthesis and Application Subrata Dolui Hiroshima University, Japan

Session 11: Springer Student Oral Contest

Chairs: Jyoti Chaudhary, MLSU, Udaipur, India &
Deepak Pathania, CU, Jammu, India

Venue: Tulsi Hall

Time	Lecture	Title/Author
09:00-09:10	OL	One-pot synthesis of terpolymer derived from propylene oxide, carbon dioxide and L-lactide using Salcomine complexes. Akanksha Ranade Thapar Institute of Engineering and Technology, Patiala, India
09:10-09:20	OL	Moisture-activated oxygen scavenger based on Acacia catechu for active food packaging: A plant-based alternative Prachi Jain Indian Institute of Technology, Roorkee, India
09:20-09:30	OL	Antibacterial Alginate Hydrogel-Coated Osteogenic & Angiogenic Bone Cement Beads Arthi Chandramouli Amrita Vishwa Vidhyapeetham, Ponekkea, Kochi, India
09:30-09:40	OL	Effect of Carbon nanotube functionalization on mechanical, tribological, and biological response of ultra-high molecular weight polyethylene-based bio-composites Pooja Rani Indian Institute of Technology, Kanpur, India
09:40-09:50	OL	P(NIPAm-Co-AAc)-AEMR integrated PVA hydrogels: Insights into RAFT polymerization, responsive features, and cytotoxicity studies Parvathy P A CSIR-NIIST, Thiruvananthapuram, India

09:50-10:00	OL	Bioreactor stimulated PCL-dECM based electrospun scaffolds with Umbilical Cord MSCs initiate tenogenesis and reinforce mechanical integrity Amrutha Datla <i>Indian Institute of Technology, Hyderabad, India</i>
10:00-10:10	OL	Enhancing Immune Efficiency Through Amino Acid-Based Polymeric Nanoparticles Divya Pareek <i>Indian Institute of Science, BHU, Varanasi, India</i>

Tea Break | 10:10-10:45

Session 12: Advanced Materials

Chairs: JK Rathour, GFL, Dahej, India & Anupama Kumar, VNIT, Nagpur, India

Venue: Ashoka Hall

Time	Lecture	Title/Author
10:45-11:05	IL	Rice husk ash waste as effective reinforcement in the polymer matrix composites/nanocomposites for electronic applications Rajendra Kumar Goyal <i>Malaviya National Institute of Technology, Jaipur, India</i>
11:05-11:25	IL	Development of Polypropylene Homopolymer for Monofilament Applications with Enhanced Gas Fading Resistance Priyanka Singh <i>HPCL-Mittal Energy Ltd., (HMEL), Noida, India</i>
11:25-11:45	IL	Metal Salts as Catalysts in Ring-opening Polymerization of Cyclic Esters Payal Malik <i>Sant Longowal Institute of Engineering and Technology, Longowal, Punjab, India</i>
11:45-12:05	IL	Tuning the physicochemical and dielectric properties of chitosan/graphene nanocomposites Sidharth Sirohi <i>Bhaskaracharya College of Applied Sciences (University of Delhi), New Delhi, India</i>
12:05-12:25	IL	Effects of Polymer Physicochemical Properties on the Dissolving Microneedles (DMN) for Transdermal Drug Delivery Sudip K. Pattanayak <i>Indian institute of Technology Delhi, New Delhi, India</i>

Session 13: Polymers for High technology

Chairs: Satyendra Mishra, NMU, Jalgaon, India &
Manohar V. Badiger, NCL, Pune, India

Venue: Gulmohar Hall

Time	Lecture	Title/Author
10:45-11:05	IL	Synthesis of Nanodiamonds and Their Applications on Polymers and Textiles Ashwini Kumar Agrawal <i>Indian institute of Technology Delhi, New Delhi, India</i>
11:05-11:25	IL	Synthesis and characterization of sulfur-containing polymers: An overview Susanta Banerjee <i>Indian Institute of Technology, Khargpur, India</i>
11:25-11:45	IL	Piezoelectric Nanofibers for Textile-based Wearable Electronics Kaushik Parida <i>Indian Institute of Technology, Roorkee, India</i>
11:45-12:05	IL	Continuous Flow Synthesis of Conjugated Polymer Nanocomposites as Photocatalysts Prem Felix Siril <i>Indian Institute of Technology, Mandi, India</i>
12:05-12:25	IL	Electroconductive Graphene-crosslinked-Collagen hydrogel Modulate Inflammation in Spinal Cord Regeneration Akshay Srivastava <i>National Institute of Pharmaceutical Education and Research, Ahmedabad, India</i>

Session 14: Wiley Student Oral Contest

Chairs: Susheel Kalia, IMA, Dehradun, India &
B. S. Kaith, NIT Jalandhar, India

Venue: Tulsi Hall

Time	Lecture	Title/Author
10:45-10:55	OL	Mineralized Himalayan Sheep Wool Based Composite 3D Printed Scaffolds with Curcumin for Osteosarcoma Management Himanshi Diwan <i>Indian Institute of Technology, Mandi, India</i>
10:55-11:05	OL	Pectin/PVA composite films reinforced with sporopollenin for food packaging application Diksha Lingait <i>Visvesvaraya National Institute of Technology, Nagpur, India</i>
11:05-11:15	OL	Biofunctional Polyethylene terephthalate Surface by CO ₂ plasma Activation Rohini Verma <i>Indian Institute of technology Delhi, New Delhi, India</i>
11:15-11:25	OL	Polysaccharide-based Biopolymer Composite for Sustainable Packaging Kalpna Rathore <i>Indian Institute of Technology Kanpur, Kanpur, India</i>

11:25-11:35	OL	High-performance functional fibers from the Bacterial Cellulose hydrogel Anurag Kumar <i>Indian Institute of Technology, Hyderabad, India</i>
11:35-11:45	OL	PVDF-HFP based proton-conducting composite polymer electrolyte for next generation electrochemical devices Asish Kumar Sahu <i>Ravenshaw University, Cuttack, Cuttack, India</i>
11:45-11:55	OL	Isolation, Modification and Characterization of Sago Starch Sakshi Gupta <i>Dr. S.S.B UICET, Panjab University, Chadigarh, India</i>

12:25-13:00

Wisdom Contest (Session 15): (Green Lawn)

Coordinators: Chetna Verma, IIT Delhi, New Delhi, India & Pratibha Singh, AIIMS, New Delhi, India

Lunch Break | 13:00 - 14:00

Session 16: Biomaterials & Bioengineering

Chairs: Manju Saraswathy, SCTIMST, Thiruvananthapuram, India & Manohar V. Badiger, NCL Pune, India

Venue: Ashoka Hall

Time	Lecture	Title/Author
14:00-14:20	IL	Bacterial Cellulose- a tunable matrix for drug delivery Mudrika Khandelwal <i>Indian Institute of Technology Hyderabad, Hyderabad, India</i>
14:20-14:40	IL	Ploxamer based Nanoformulations for enhanced brain delivery Sabitha M <i>Amrita School of Pharmacy, Kochi, India</i>
14:40-14:55	OL	Dextran and its Derivatives as Fouling-resistant Polymers for Surface Modification of Cotton Gauze Debirupa Mitra <i>BITS Pilani Hyderabad Campus, Hyderabad, India</i>
14:55-15:10	OL	Designing of Infection-Resistance Polyurethane Films Manali Somani <i>Indian Institute of Technology Delhi, New Delhi, India</i>
15:10-15:25	OL	Novel polymeric hydrogel mimics the cellular microenvironment and promotes neurite growth with protection from oxidative stress Pradeep Paik <i>Indian Institute of Technology (BHU), Varanasi, India</i>

Session 17: APA Microsymposium on Packaging

Chairs: Jayitha Bandopadhyay, Pretoria, South Africa &
Jyoti Chaudhary, MLSU, Udaipur, India

Venue: Gulmohar Hall

Time	Lecture	Title/Author
14:00-14:20	IL	Recent advances in nonedible oil-based polyurethane polymers: Synthesis, characterization, and coating applications in the food packaging Rakesh K. Sharma <i>The Maharaja Sayajirao University of Baroda, Vadodara, India</i>
14:20-14:40	IL	Value addition of Pomegranate Peels: From Healthcare to Energy Applications Anupama Kumar <i>Visvesvaraya National Institute of Technology, Nagpur, India</i>
14:40-14:55	OL	Polyolefin/pistachio shell biocomposites: Mechanical, rheological, thermal and morphological properties Manjeet Singh <i>Bhabha Atomic Research center (BARC), Mumbai, India</i>
14:55-15:10	OL	Development and Characterization of Eco-friendly, Active Food Packaging Films based on Strach/k-Carrageenan Blends Reinforced with Flyash and Functionalized by Eucalyptus oil A. B. Hemavathi <i>SJCE, JSS STU, Mysuru, India</i>
15:10-15:25	OL	Sustainable production of Nitrogen-Doped Carbon dots for electrospun fibrous packaging films Ankit Tyagi <i>Indian Institute of Technology, Jammu, India</i>

Session 18: Advanced Materials

Chairs: RK Goyal, MNIT, Jaipur, India &
Kaushik Parida, IIT Roorkee, Saharanpur, India

Venue: Tulsi Hall

Time	Lecture	Title/Author
14:00-14:20	IL	Germicidal textiles - novel ways of applying Copper nanoparticles Arun Kumar Patra <i>Uttar Pradesh Textile Technology Institute, Kanpur, India</i>
14:20-14:40	IL	Plasma mediated Dyeing of Cotton Fabric from Temple Flower (Hibiscus rosa sinensis) Waste Shamayita Patra <i>SVITT, SVVV, Indore, India</i>
14:40-14:55	OL	The development of germicidal textiles based on Mxene Subhankar Maity <i>Uttar Pradesh Textile Technology Institute, Kanpur, India</i>
14:55-15:10	OL	Alkaline Resistance Polymer Coating on Polyester for Geosynthetic Applications Shyam Sainik <i>The Bombay Textile Research Association, Mumbai, India</i>
15:10-15:25	OL	Advanced technologies for controlling pests Rathna Vn Gundloori <i>CSIR-National Chemical Laboratory, Pune, India</i>

Session 19

15:25-17:30 | Tea & Poster Presentation (Green Lawn)

Chairs: Susheel Kalia, IMA, Dehradun, India & Manali Somani, IIP, New Delhi, India



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Session 20: Biopolymers & Biomaterials

Chairs: Siddharth Sirohi, Bhaskaracharya College, New Delhi, India &
Vikas Gite, NMU, Jalgaon, India

Venue: Ashoka Hall

Time	Lecture	Title/Author
09:00-09:20	IL	Antioxidant, Tensile Strength and Biodegradation Behaviour of Quercetin Incorporated Soy Protein Isolate Films Rakesh Kumar Central University of South Bihar, Gaya, India
09:20-09:40	IL	Design and 3D printing wollastonite reinforced PLA/PCL composite scaffolds for bone tissue engineering Himansu Sekhar Nanda PDPM-IIITDM, Jabalpur, India
09:40-09:55	OL	Transport of Diclofenac from Chitosan and Chitosan-albumin nanoparticles: A Comparative In Vitro Analysis Goutam Thakur Manipal Institute of Technology, MAHE, Manipal, India
09:55-10:10	OL	Mechanical Properties of semi-IPN nanocomposites consist of carbon black loaded natural rubber and sodium carboxymethyl cellulose Mohanan A. Nehru Arts and Science College Kanhangad, Padnekat, India

Session 21: Functional & Smart Materials

Chairs: *Susanta Banerjee, IIT Kharagpur, India & Jaspreet Kaur, IIT Mandi, India*

Venue: Gulmohar Hall

Time	Lecture	Title/Author
09:00-09:20	IL	Cellulose nanomaterials for advanced applications: Approach towards a sustainable and circular ecosystem Pradip Kumar Maji <i>Indian Institute of Technology Roorkee, Saharanpur, India</i>
09:20-09:40	IL	Development of Plasticizer Free polymer matrix using reactive nanogel additives for Biomedical application Manju Saraswathy <i>Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, India</i>
09:40-09:55	OL	Fabrication and Development of Smart Polymer Composite Based on Low Density Bulk Moulding Compound for Automotive Reflector Amol Tarachand Naikwadi <i>Uno Minda Ltd, Pune, India</i>
09:55-10:10	OL	Introduction to Team Wiley and Wiley Journals Subhabrata Mukhopadhyay <i>Wiley, India</i>
10:10-10:25	OL	Patterned bacterial cellulose patches for multi-drug release in wound management Arif Khan <i>Indian institute of technology, Hyderabad, India</i>

Session 22: Miscellaneous Applications

Chairs: *Prem Felix Siril, IIT Mandi, India & Pradeep Paik, IIT BHU, Varanasi, India*

Venue: Tulsi Hall

Time	Lecture	Title/Author
09:00-09:20	IL	Mechanically robust, Stretchable and Adhesive Anti-freezing Polymer Hydrogel Materials for multifunctional applications Rajat Kumar Das <i>Indian Institute of Technology, Kharagpur, India</i>
09:20-09:40	IL	Modeling Polymers for Sustainable Energy Generation: Quantum Mechanical and Density Functional Theory Approach Anant D. Kulkarni <i>Somaiya Vidyavihar University, Mumbai, India</i>
09:40-09:55	OL	Effect of polyolefin elastomer (POE) variants on mechanical, heat-shrinkable, electrical and morphological properties of LLDPE-POE blends Rohini Agarwal <i>Bhabha Atomic Research Centre, Mumbai, India</i>
09:55-10:10	OL	Visible-Light-Mediated and Chlorophyll Catalysed Ultrafast Oxidation of Thiols Neetu Kumari <i>Mohanlal Sukhadia University, Udaipur, India</i>
10:10-10:25	OL	Self-stratified Multifunctional Hybrid Coating with Self-Healing ability for Superior Adhesion Strength and Hardness Debaprasad Mandal <i>Indian Institute of Technology Ropar, Punjab, India</i>

Tea Break | 10:25 - 10:40

Session 23: Polymers for High technology

Chairs: Rakesh Kumar, CUSB, Gaya, India &
Pradip Kumar Maji, IIT Roorkee, Saharanpur, India

Venue: Gulmohar Hall

Time	Lecture	Title/Author
10:40 -11:00	IL	Study of Rheological and Thermo-dynamical Properties of Phosphorylated Phthalonitrile Resin matrix (2c) for Aerospace Applications Jeetendra Kumar Banshiwal DMSRDE, Kanpur, India
11:00 -11:20	IL	Value Addition of Agro-waste Derived Functionalized Biopolymers for Sustainable Food Application Tabli Ghosh Tezpur University, Sonitpur, India
11:20-11:35	OL	Propane-1,3-bis(hexadecyldimethylammonium bromide)-bentonite-based novel hybrid material for the elimination of textile dyes Ajmal Koya Pulikkal National Institute of Technology Mizoram, Aizawl, India
11:35-11:50	OL	Study on Effects of the Multifunctional TPE mat on the Thermal Performance of Wireless Charging Systems Ikhlas Chandkoti Uno Minda Ltd, Pune, India
11:50-12:05	OL	Effect of regenerated cellulose derived from coconut shell powder on functional properties of poly vinyl alcohol based biocomposites Pradeepa K. G. Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysore, India
12:05-12:20	OL	Design and Fabrication of Polymeric Substrates For Flexible Optoelectronic Devices Uday Shankar Indian Institute of Technology (BHU), Varanasi, India

Session 24: Miscellaneous Applications

Chairs: Anil Kumar Satapathy, Finolex Industries Limited, Ratnagiri, India &
Dinesh Yadav, MLSU, Udaipur, India

Venue: Tulsi Hall

Time	Lecture	Title/Author
10:40-11:00	IL	The curing kinetics of novel phthalonitrile resin system by model-based and iso-conversional kinetic model Ajit Shankar Singh DMSRDE (DRDO), Kanpur, India
11:00-11:20	IL	Highly versatile electrospun nanofibers for piezoelectric, pyroelectric and photocatalytic applications Jaspreet Kaur Randhawa Indian Institute of Technology, Mandi, India
11:20-11:35	OL	Effect of addition of PLA as tolerant on the thermomechanical and compostability behaviour of PBAT/TPS Blend Rahul Dubey Ravenshaw University, Cuttack, Odisha, Cuttack, India

11:35-11:50	OL	Modelling the Preferential Conformations and Infrared Spectra of Poly (L-Lactic Acid) Homopolymer by L-lactic Acid Oligomer: Quantum Chemical and Density Functional Theory Investigation Sagar Marathe <i>S K Somaiya College, Somaiya Vidyavihar University, Mumbai, India</i>
11:50-12:05	OL	Surface phases and the interfacial dilatational response of the supramolecular complex of the poly(styrene)-b-poly(4-vinyl pyridine) and 3-n pentadecyl phenol at interfaces Padmanabhan Viswanath <i>Centre for Nano and Soft Matter Sciences, Bengaluru, India</i>

Valedictory Session (Ashoka Hall) | 12:00-13:30

Conference Address

Bhuvanesh Gupta, *Conference Chair*

Vision Address

Anup K Ghosh, *Conference Co-Chair*

Guest of Honor address

Deepak Pathania, *HSCA President*

Guest of Honor Address

Mayank Dwivedi, *Director, DMSRDE, Kanpur*

Chief Guest Address

Günther G Scherer, *PSI, Villigen, Switzerland*

Award ceremony

Oral/ Poster/Wisdom awards

Vote of Thanks

Susheel Kalia, *Conference Secretary*

Lunch | 13:30 -14:30

14:30 - CONFERENCE ENDS

Poster Presentations

S. No.	ABS No.	Title	Presenting Author	Institution	City
P1	25	In –vivo evaluation of bioactive polyvinyl alcohol/lecithin-clove oil nanofibers	Chetna Verma	IIT Delhi	New Delhi
P2	35	One-pot synthesis of terpolymer derived from propylene oxide, carbon dioxide and L-lactide using Salcomine complexes	Akanksha Ranade	TIET	Patiala
P3	64	Self-assembled Floral-patterned Hydroxyapatite Crystals Coating on 3D Printed PLA Scaffolds for Bone Regeneration	Ankita Negi	IIT Mandi	Mandi
P4	69	Synthesis of Schiff base with Cellulose moiety for Metal ion Detection	Keshav Dev	IIT Roorkee	Saharanpur
P5	84	Formulation and Characterization of Cinnamon Extract loaded Cyclodextrin Nanosponge and Integration into Chitosan to Develop a Coating for Fresh Fish	Kushagra Pant	NIFTEM	Sonipat
P6	111	Bi-layer composite dressing of electrospun chitosan/gelatin nanofibers and quantum dots loaded chitosan/alginate-based hydrogel for wound healing	Dimpy Bhardwaj	IIT Mandi	Mandi
P7	146	Evaluating the Electrochemical Performance of Modified Cellulose and Carbon Nanotubes Hybrids for Supercapacitor Applications	Nitesh Choudhary	IIT Roorkee	Roorkee
P8	151	Coconut husk lignin derived pH-responsive carbon dots: Synthesis and property evaluation for intelligent food packaging	Sangeetha U K	CSIR NIIST	Pappanamcode
P9	154	Functional designing of plasma-grafted polypropylene mesh for antimicrobial applications	Vipula Sethi	IIT Delhi	New Delhi
P10	155	Biofunctional Polyethylene terephthalate Surface by CO ₂ plasma Activation	Rohini Verma	IIT Delhi	New Delhi
P11	157	Visible light-assisted organocatalyzed Atom Transfer Radical Polymerization (O-ATRP) using BODIPY Photocatalysts	Rahul Maurya	IIT Ropar	Ropar
P12	164	Facile Synthesis and Polymerization of 1,4,5-oxadithiepan-2-one for Disulfide-based Redox-responsive Drug Delivery	Debojit Chakraborty	IIT Delhi	New Delhi
P13	167	Development of Mosquito Repellent and UV protective cotton fabric through Microencapsulation using Grapefruit Essential oil	Rupali Kakaria	NIFT Delhi	New Delhi
P14	171	Isolation, Modification and Characterization of Sago Starch	Sakshi Gupta	Dr. S.S.B UICET P. Univ.	Chandigarh
P15	174	Transdermal application of Ayurvedic Formulation (Bidalaka) in the management of Acute conjunctivitis - A case series	Muhammed Hisham	AIIA	New Delhi

S. No.	ABS No.	Title	Presenting Author	Institution	City
P16	176	Design and synthesis of piperazine-based water-dispersible polyurethane coatings for biomedical applications	Anchal Gupta	IIT Delhi	New Delhi
P17	182	Next-Gen Food Packaging: Carbon Dots Embedded Ethyl Cellulose Fibrous Films	Bharath Perumal Pillai	IIT Jammu	Jammu
P18	183	Development of Infection-resistant Poly(lactic Acid) Films for Biomedical Applications	Megha Yadav	MLS University	Udaipur
P19	186	Preparation and Characterization of Poly(vinyl alcohol) Nanocomposite Membranes for Disinfection of Water	Chesta Mehta	MLS University	Udaipur
P20	188	Development and Characterization of Sodium Alginate-based Membranes for Wound Care System	Pooja Badsara	MLS University	Udaipur
P21	190	Development and Characterization of Functionalized Cotton Fabric for Biomedical Applications	Nirmal Rathore	MLS University	Udaipur
P22	192	Biofabrication of Zirconium Oxide Nanoparticles derived from Eucalyptus Globulus (Leaves) via facile and sustainable synthesis approach	Garima Shekhawat	MLS University	Udaipur
P23	194	Main-Chain Push-Pull Chromophores for highly sensitive and wide range detection of Fluoride	Ashish Sharma	INST	Mohali
P24	195	Chemically tailored cellulose nanocrystals as an anti-counterfeit material: scrutiny of their phase behavior	Shiva Singh	IIT Roorkee	Roorkee
P25	200	Green Synthesis of Zinc Oxide Nanoparticles Using <i>Nyctanthes arbor-tristis</i> Extract: A Sustainable Eco-Friendly Approach	Chetna Parmar	MLS University	Udaipur
P26	204	Production, Extraction, and Characterization of Exopolysaccharides via sustainable bacterial-driven route for potential industrial applications	Abhinav Kumar Singh	IIT Roorkee	Roorkee
P27	206	Stretchable and Lightweight Carbon nanotube/Polyester based Nanocomposite for Suppressing Electromagnetic Interference	Sakshey Mittal	BARC	Mumbai
P28	208	Up-scaling of poly(vinylidene fluoride) electrospun nanofibers with a needleless wire spinneret technique	Komal Kukreja	IITB	Bombay
P29	210	Pectin/PVA composite films reinforced with sporopollenin for food packaging application	Diksha Lingait	VNIT Nagpur	Nagpur
P30	211	High Temperature Polyaniline Composites as liner in Hybrid Hydrogen Storage Tanks	Gorbel B	IIT Jammu	Jammu
P31	212	Himalayan abundant <i>Tagetes minuta</i> (wild Marigold) essential oil embedded self-crosslinked chitosan films for active food packaging	Deepika Gupta	IIT Mandi	Mandi

S. No.	ABS No.	Title	Presenting Author	Institution	City
P32	213	Utilization of an enormous waste produced by marigold flowers by its implementation in a polymer-based matrix for hygiene application	Roshni Pattanayak	CIPET: SARP-LARPM	Bhubaneswar
P33	216	Rapid dissolvable protein microneedles for instant delivery and enhanced long-term storage of biomolecules for biomedical application	Jayakumar R	IIT Hyderabad	Hyderabad
P34	218	Injectable silk hydrogel loaded with combination of chemotherapeutic drugs for sustained drug delivery against breast cancer and cancer stem cells	Jeyashree K	IIT Hyderabad	Hyderabad
P35	219	Synthesis and Characterisation of IPN Hydrogels based on Chitosan and Polymethacrylate	Sreedev P	Govt. College	Kasaragod
P36	220	Flexible Polymer Substrate for Mechanical Energy Harvesting using A Coating of BNT based Piezoelectric Ink	Bibhudutta Das	CIPRT-SARP:LARPM	Bhubaneswar
P37	221	Preparation and Characterization of Polyvinyl Alcohol-Gelatin based Hybrid Nanocomposites for Packaging film Applications	Mayur Patil	KBCNMU	Jalgaon
P38	222	Novel crosslinker enabled PANI hydrogel synthesis and its electrochemical performance for supercapacitor applications	Samaresh Ghosh	IIT Roorkee	Roorkee
P39	223	Natural Deep Eutectic Solvents: A Green and Sustainable Quest to Recover β -Carotene from Hibiscus	Manisha Gopal Verma	VNIT Nagpur	Nagpur
P40	224	Synthesis and characterization of conducting copolymer via Suzuki-coupling reaction for flexible electrode in energy storage applications	Kumari Priya	IIT Roorkee	Roorkee
P41	225	Efficient delivery of cytochrome C into cells via cationic dextrin nanoparticles for cancer treatment	Sanchita Sarkhel	IIT Mandi	Mandi
P42	226	Development of a sustainable adhesive binder sourced from modified linseed oil for printing ink application	Manjinder Singh	IIT Roorkee	Roorkee
P43	227	β -cyclodextrin derived IPNs to generate superior proton conductivity in polymeric blend electrolytes: An experimental and molecular simulation-assisted approach	Ankita Chauhan	IIT Roorkee	Roorkee
P44	228	Study on the effect of structural parameters of glass roving and knits on its acoustic behaviour	Siddhi Vardhan Singh Rao	IIT Delhi	New Delhi
P45	231	Sustainable Bioactive Polyvinyl Alcohol based Wood Coating Films Reinforced with CNC and Ficus auriculata Extract	Tulika Sharma	IIT Roorkee	Roorkee
P46	232	Trivial Positional Isomerism in Ligands Triggering Different Coordination, Memristive and Capacitance Properties in Fe(II)- Metallopolymers; Design, Synthesis, and Characterization	Shubham Bawa	IIT Roorkee	Roorkee

S. No.	ABS No.	Title	Presenting Author	Institution	City
P47	234	Application of Machine Learning Models To Understand Polymer-Solvent Interactions	Swatish Jena	IISER	Bhopal
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