

# IMPORTANT DATES

Pre-conference workshop will be conducted on 1<sup>st</sup> Dec 2024

- REGISTRATION OPEN – 25<sup>th</sup> JULY 2024
- EARLY BIRD REGISTRATION – 20<sup>th</sup> NOVEMBER 2024
- REGISTRATION END – 2<sup>nd</sup> OCTOBER 2024
- ABSTRACT SUBMISSION OPEN – 25<sup>th</sup> JULY 2024
- ABSTRACT SUBMISSION CLOSE – 15<sup>th</sup> SEPTEMBER 2024
- ABSTRACT ACCEPTANCE – 5<sup>th</sup> OCTOBER 2024
- EXTENDED ABSTRACT – 25<sup>th</sup> NOVEMBER 2024

## ABOUT KERALA

Kerala, often referred to as "God's Own Country," is a picturesque state located in the southwestern region of India. Renowned for its lush green landscapes, serene backwaters, and pristine beaches, Kerala offers a unique blend of natural beauty and cultural richness. The state is home to an array of wildlife sanctuaries, tea gardens, and spice plantations, making it a haven for nature enthusiasts and adventure seekers alike. In addition to its natural wonders, Kerala is celebrated for its vibrant traditions, diverse art forms, and rich culinary heritage. Visitors can experience the enchanting Kathakali dance, explore ancient temples, and savor the delectable flavors of traditional Kerala cuisine.

## ABOUT KOTTAYAM

Kottayam, a picturesque district in the state of Kerala, is renowned for its scenic landscapes, rich cultural heritage, and historical significance. Nestled amidst lush green hills and bordered by serene backwaters, Kottayam offers a tranquil and enchanting environment. The district is a gateway to Kerala's famous backwaters and is dotted with beautiful lakes, rivers, and rolling hills, making it a haven for nature lovers and outdoor enthusiasts. Kottayam is also a hub of education and literature, often referred to as the "Land of Letters" due to its high literacy rate and numerous educational institutions. It boasts a rich literary tradition and has produced many distinguished writers and scholars. The district is home to several historic churches and temples, reflecting its diverse cultural and religious heritage. Visitors can explore the majestic Vembanad Lake, enjoy a houseboat cruise, or take a stroll through the lush paddy fields and rubber plantations that characterize the region. With its well-developed infrastructure and warm hospitality, Kottayam provides an ideal setting for academic and professional gatherings.



CONTACT

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# International Conference on Recent Advances in Polymer Science: Synthesis, Processing and Applications

**THEME: POLYMERS FOR A SAFE & SUSTAINABLE FUTURE**

**1<sup>st</sup> to 4<sup>th</sup> December 2024**

**Venue: Convergence Academia Complex, Mahatma Gandhi University**



Jointly Organised by  
School of Polymer Science and Technology,  
Mahatma Gandhi University &  
Rubber Technology Centre, Indian Institute of Technology  
Kharagpur



**Macromolecular Symposia**





# INVITATION LETTER

We are delighted to extend this invitation to you on behalf of the organizing committee of **POLYMERA 2024** – International Conference on Recent Advances in Polymer Science: Synthesis, Processing, and Application, to be held at **Convergence Academia Complex, Mahatma Gandhi University during 2nd, 3rd, and 4th December 2024.**

POLYMERA 2024 is more than just a conference; it is a convergence of minds, ideas, and innovations in the realm of polymer science. Our primary objective is to provide a dynamic platform for researchers, academicians, scientists, and industry professionals from across the globe to come together and share their latest insights, discoveries, and advancements in this ever-evolving field.

With a central focus on synthesis methodologies, processing techniques, and the diverse applications of polymers, POLYMERA 2024 promises to ignite interdisciplinary collaborations and propel the boundaries of innovation forward. By facilitating meaningful exchanges and discussions, we aim to inspire novel approaches and solutions to the challenges faced by the polymer community today.

The conference program is thoughtfully curated to encompass a wide spectrum of topics relevant to polymer science, including keynote presentations, plenary sessions, panel discussions, and poster presentations. This diverse array of sessions offers attendees a comprehensive platform to explore cutting-edge research, engage with leading experts, and network with peers who share a common passion for advancing the field.

We are also excited to announce a pre-conference workshop on 3D printing technology, where participants will receive hands-on training and attend lectures on the latest advancements in 3D printing. This workshop will cover fundamental concepts, advanced techniques, and practical applications of 3D printing in various industries. Participants will have the opportunity to work with state-of-the-art 3D printers and materials, gaining practical experience and insights from leading experts in the field.

Your expertise and contributions would undoubtedly enrich the discussions at POLYMERA 2024, and we sincerely hope that you will join us for this enlightening and collaborative event. Your presence will not only contribute to the success of the conference but also provide invaluable insights and opportunities for collaboration that will shape the future of polymer science.

We eagerly anticipate your participation in POLYMERA 2024 and look forward to the invaluable insights and collaborations that will undoubtedly emerge from this gathering.



**Dr. Sreekala M. S.**  
Conference Convener,  
POLYMERA 2024  
Mahatma Gandhi University



**Prof. Dr. Sabu Thomas**  
Conference Chair,  
POLYMERA 2024  
Mahatma Gandhi University



**Prof. Kinsuk Naskar**  
Conference Co-Chair,  
POLYMERA 2024  
Indian Institute of Technology  
Kharagpur

# ABOUT CONFERENCE

POLYMERA, an annual international conference initiated by the School of Polymer Science and Technology, is a prestigious platform dedicated to advancing knowledge and fostering collaboration in the dynamic field of polymer science and technology. Each year, POLYMERA explores diverse themes, serving as a catalyst for innovation and progress in the industry. This year, POLYMERA 2024 sets the stage with a comprehensive focus on recent advances in polymer sciences with an emphasis on polymers for a safe and sustainable future. This overarching theme encompasses the latest breakthroughs, methodologies, and applications shaping the polymer landscape, offering participants a unique opportunity to delve into the forefront of research and development. We are also excited to announce a pre-conference workshop on 3D printing technology, where participants will receive hands-on training and attend lectures on the latest advancements in 3D printing.

Join us as we embark on this exciting journey of exploration, discovery, and collaboration at POLYMERA 2024, where experts, scholars, and professionals from around the globe converge to push the boundaries of polymer science and technology.



## ABOUT MAHATMA GANDHI UNIVERSITY

Established on 2nd October, 1983, Mahatma Gandhi University is one of the major Universities in Kerala, which has evolved into a premier educational institution that caters to fulfil the higher educational needs of the people from Central Kerala. The university spans across the expansive 110-acre Priyadarsini Hills Campus located at Athirampuzha, approximately 12 kilometers away from Kottayam. The Institution provides a broad spectrum of academic programs at the Undergraduate, Postgraduate, M Phil, and Doctoral levels through its 30 University Departments, 1 International and Inter-University Centre, 7

Inter-University Centres, 9 Inter school Centres, 1 National Centre, 3 International Centres, 79 Govt./Aided Affiliated Colleges including 10 Autonomous Colleges, 194 Unaided Affiliated Colleges and 225 Recognized Research Centres.



## CONFERENCE HIGHLIGHTS

- Pre-conference Workshop
- Brain storming session
- Keynote
- Plenary
- Invited Lecture
- Short Invited Lecture
- Best Oral Presentation Awards
- Best Poster Awards
- Innovation Awards
- Cultural Activities
- Boat Trip & Site Seeing
- Banquet Dinner
- Lab Tour / Visit



## ABOUT SCHOOL OF POLYMER SCIENCE AND TECHNOLOGY

Mahatma Gandhi University is ranked number one among the leading global universities for polymer science in India, according to a global ranking by Web of Science/Clarivate, USA. The School of Polymer Science and Technology (SPST) is dedicated to equipping students with innovative, hands-on expertise in the field of polymers. Our mission is to shape the next generation of polymer scientists through comprehensive education and training. We aim to spearhead research and development efforts in polymer science and technology, creating inventive solutions that replace conventional petroleum-based plastics with biopolymers. Additionally, we conduct translational research to convert fundamental polymer science discoveries into practical applications.

SPST fosters a culture of creativity, excellence, and collaboration among students, faculty, and industry partners. Our goal is to conduct cutting-edge research and teaching in polymer science and technology, advancing fundamental knowledge and addressing societal challenges.

## ABOUT 3D PRINTING

3D printing is an additive manufacturing process that creates a physical object from a digital design. The process works by laying down thin layers of material in the form of liquid or powdered plastic, metal or cement, and then fusing the layers together. This revolutionary technology is transforming industries by enabling the production of complex and customized structures with remarkable precision and efficiency. The pre-conference workshop at POLYMERA 2024 is designed to immerse participants in the world of 3D printing, providing hands-on training and in-depth lectures on the latest advancements in the field. Attendees will gain practical experience with cutting-edge 3D printers and materials, explore the newest techniques and applications, and learn from leading experts. This workshop is a unique opportunity to enhance your skills, network with fellow professionals, and stay at the forefront of this transformative technology. Don't miss out on this chance to be part of the future of manufacturing and design.

## SYMPOSIA TOPICS

- 3-D Printing of Polymer
- Advanced Characterization Techniques
- Advances in Polymer Processing
- Advances in Polymer Blends, Composites and Reactive Processing
- Biopolymers and Biomedical Applications
- Polymer Compounding
- Polymer Films, Fibres and Membranes
- Polymer Nanocomposites
- Polymer Products & Design
- Rubber and Thermoplastic Elastomers (TPEs and TPVs)
- Smart Polymers and Intelligent Materials
- Upcycling, Recycling, Microplastics and Circular Economy



## ABOUT IIT KHARAGPUR

IIT KGP, the first and largest of 23 member IIT family, was established in year 1951 at Hiji detention camp at Kharagpur in West Bengal, India. Since its inception, this Institute has been transformed into a breeding ground for the dissemination of knowledge in the field of engineering and technology to reach the frame of a world class Institute.

It has 19 Departments, 13 Schools and 9 Centers. The campus, a township of above 20k people is very green and free from urban noise and pollution, an ideal temple for education and research.



## PATRONS

**Prof. (Dr.) C.T. Aravindakumar**  
Hon. Vice-Chancellor, Mahatma Gandhi University

**Prof. (Dr.) Jayachandran K**  
Hon. Registrar, Mahatma Gandhi University

## CONVENOR

**Dr. Sreekala M. S. (AvH & JSPS Fellow)**  
Associate Professor, School of Chemical Sciences (SCS),  
Director, School of Polymer Science and Technology (SPST)  
Joint Director, School of Nanoscience and Nanotechnology (SNSNT)  
Joint Director, International and Inter-University Centre for Nanoscience and Nanotechnology (IUCNN),  
Mahatma Gandhi University

## CHAIR

**Prof. (Dr) Sabu Thomas, D.Sc., Ph.D., FRSC, FEurASc**  
Former Vice Chancellor, Mahatma Gandhi University  
Director, School of Energy Materials  
Director, School of Nanoscience and Nanotechnology  
Director, International and Inter-University Centre for Nanoscience and Nanotechnology  
Mahatma Gandhi University

## CO-CHAIR

**Prof. Dr. Kinsuk Naskar**  
Professor and Chairperson, Rubber Technology Centre  
Institute Chair Professor, IIT Kharagpur, AvH and IPF Fellow, Germany  
Indian Institute of Technology Kharagpur

## COORDINATORS

**Dr. Hari Krishnan Pulikkalparambil, D.Eng., Postdoc.**  
Assistant Professor, School of Nanoscience and Nanotechnology  
Mahatma Gandhi University

**Dr. Bipin Bal. Ph.D., Postdoc.**  
Assistant Professor, School of Polymer Science and Technology  
Mahatma Gandhi University

## JOINT COORDINATORS

**Dr. Jayavani S**  
Assistant Professor, IUCNN  
Mahatma Gandhi University

**Dr. Lakshmi Priya Ravindran**  
Navakerala Postdoctoral Researcher, IUCNN  
Mahatma Gandhi University

## BANK DETAILS

**THE DIRECTOR SCHOOL OF POLYMER SCIENCE & TECHNOLOGY**  
Account No: 42119806899  
CIF Number: 91257105016  
IFSC: SBIN0070669

## ADVISORY BOARD

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Dr. Vivek S  
Other Faculties at SNSNT, SEM and IUCNN

## REGISTRATION DETAILS

CATEGORY	EARLY BIRD on or before 30 <sup>th</sup> Sep 2024	REGULAR on or before 31 <sup>st</sup> Oct 2024	ON SITE from 1 <sup>st</sup> Dec 2024
Student	₹2000.00	₹2500.00	₹3000.00
Academia	₹4000.00	₹5000.00	₹6000.00
Industry	₹12000.00	₹14000.00	₹16000.00
International - DELEGATE	€400	€500	€600
International - STUDENT	€300	€400	€500

Note \* REGISTRATION fee for accompanying PERSON should be same as student