

FUNCTIONAL POLYMERIC MATERIALS; EXPLORING GREEN & SUSTAINABILITY (FPMGS)

Under the aegis of SPARC program

THEME: This webinar is being organized jointly by Indian Institute of Technology (IIT) Kharagpur, India and University of Melbourne (UoM), Australia under the aegis of Scheme for Promotion of Academic and Research Collaboration (SPARC) program instituted by MHRD, Govt. of India. In this hi-tech world, functional polymers and polymeric materials have extensive applications in optics, energy, sensors, elastomers, imaging as well as in health-care. The objective of this webinar is to provide a platform to the research community to exchange their ideas and recent findings in functional polymers and polymeric materials like bio-mimetic materials, metallo-polymers, supramolecular material, fluorescent material, specialty elastomers. This webinar will focus on these functional materials' green and sustainability aspects in terms of their preparation from renewable resources, their preparation processes (like ultrasonic processes, light induced processes, use of ionic liquid as solvent) and their applications as additives or bulk material in different products. Distinguished experts from academia and industries will deliver lectures and share their views in this webinar. It's a part of the 40th foundation anniversary of Rubber Technology Centre (RTC), IIT Kharagpur

When: 7th October, 2021 from 8:30 AM – 4:10 PM (IST)

Where: Online Platform

CONVENERS



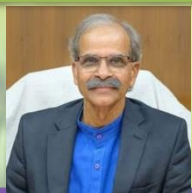
Prof. Nikhil K Singha
Rubber Technology Centre, IIT Kharagpur



Prof. Greg Qiao
University of Melbourne, Australia

ORGANIZING COMMITTEE

Chief Patron



Prof. Virendra K Tewari
Director, IIT KGP

Chairperson(s)



Prof. S. Chattopadhyay
Head, RTC, IIT KGP



Prof. M. Ashokkumar
UoM, Australia

Organizer: Rubber Technology Centre, IIT Kharagpur

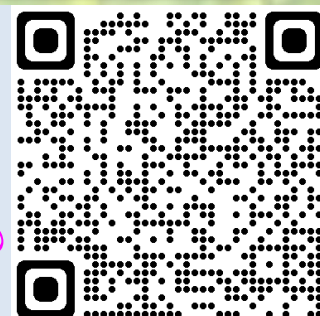
Free (mandatory) Registration

Registration link: <https://forms.gle/B1mLGZCU4GwrwYLC7>

Web link for the webinar will be shared with all the registrants via mail

***For any queries contact** fpmgs2021@gmail.com

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Scheme for Promotion of Academic and Research Collaboration



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Date & Time: 7th October, 2021 from 8:30 AM – 4:10 PM (IST)

Distinguished Speakers



Plenary Lecture: Sustainability of Polymers: Challenges in Science and Practice

Prof. Swaminathan Sivaram, Honorary Professor, IISER Pune, India

Time: 9.05 AM – 9.40 AM



Functional Nanoparticles from Polymeric Amphiphiles via “Living” Crystallization-Driven Self-Assembly

Prof. Ian Manners, University of Victoria, Canada

Time: 9.50 AM – 10.20 AM



Ultrasonic Synthesis of Functional Biopolymeric Materials

Prof. M. Ashokkumar, University of Melbourne, Australia

Time: 10.20 AM – 10.50 AM



Photodynamic Soft Matter Materials Enabled by Wavelength Selective Photochemistry

Prof. Christopher Barner-Kowollik, Queensland University of Technology, Australia

Time: 10.50 AM – 11.20 AM



Sustainable elastomer solutions for the future, especially for future mobility

Dr. Niels van der Aar, Arlanxeo, The Netherlands

Time: 11.30 AM – 12.00 PM



Advance Polymeric Materials : Synthesis to Sustainability

Dr. Virendra K. Gupta, Sr. VP, Reliance Industries, India

Time: 12.00 PM – 12.30 PM



Biomimetic colour engineering from nature to applications

Prof. Silvia Vignolini, University of Cambridge, UK

Time: 12.30 PM – 1.00 PM

INTERNATIONAL WEBINAR
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Distinguished Speakers



Polymer Microfluidics Towards Biomimetic Physiology on a Chip

Prof. Suman Chakraborty, IIT Kharagpur, India

Time: 1.00 PM – 1.30 PM



Bioinspired "Reaction-Coupled" Supramolecular Polymers

Prof. Subi Jacob George, JNCASR, Bangalore, India

Time: 2.00 PM – 2.30 PM



Covalent Organic Frameworks and Reticular Nano-Synthesis

Prof. Rahul Banerjee, IISER Kolkata, India

Time: 2.30 PM – 3.00 PM



Porous Organic Polymers for Sequestration of Organic Micropollutants from Water

Prof. Abhijit Patra, IISER Bhopal, India

Time: 3.00 PM – 3.30 PM

Organizer: Rubber Technology Centre, IIT Kharagpur

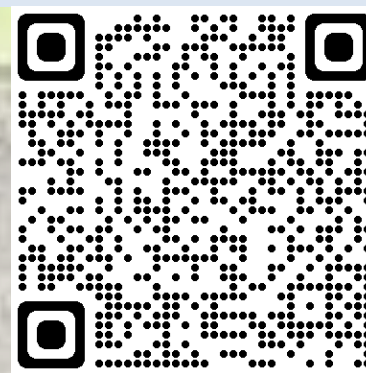
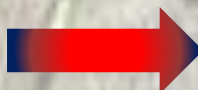
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