

# 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:** 7<sup>th</sup> 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](mailto:fpmgs2021@gmail.com)

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Scheme for Promotion of Academic and Research Collaboration



INTERNATIONAL WEBINAR

**FUNCTIONAL POLYMERIC MATERIALS; EXPLORING GREEN & SUSTAINABILITY  
(FPMGS)**

Under the aegis of SPARC program

Date & Time: 7<sup>th</sup> 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 form nature to applications**

*Prof. Silvia Vignolini, University of Cambridge, UK*

**Time: 12.30 PM – 1.00 PM**

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**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**

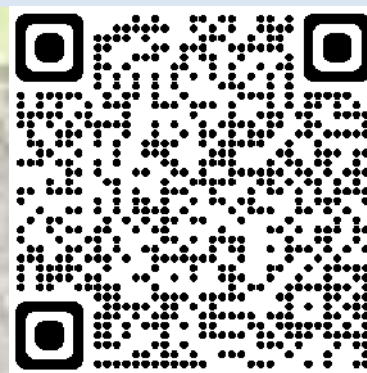
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