



**SFMP** 2023

## Sustainable Functional Materials & Processes

**SFMP 2023**

**February 20, 2023**

**Indian Institute of Technology Kharagpur  
Kharagpur-721302, India**



**Venue: Prof. S. N. Bose Auditorium  
Academic area, IIT Kharagpur**

Organized by

**Rubber Technology Centre, IIT Kharagpur  
In collaboration with  
University of Melbourne, Australia**

Under the aegis of  
**SPARC Program (MHRD, GoI)**



Scheme for Promotion of Academic and Research Collaboration



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*This workshop is organized under the SPARC program (MHRD, Govt. of India). The objective of this workshop is to provide a platform to the research community to discuss and exchange their ideas and recent findings on the chemistry and applications of Sustainable polymers, functional materials, and their processes. It will focus on the green and sustainable synthetic processes using ultrasound, light, sustainable polymers, functional materials based on biomaterials and self-healable polymers. The workshop will host several plenary lectures, invited lectures and poster presentations. Prof. Greg Qiao and Prof. M. Ashokkumar of the University of Melbourne, Australia are the foreign collaborators of this SPARC project.*

### Topics likely to be discussed during the Workshop:

- ✓ Synthesis processes via ultrasound and light
- ✓ Polymers and functional materials from bio-resources
- ✓ Functional biomaterials, self-healable elastomers.

### Organizing Committee

- Patron:** Prof. Virendra K. Tewari, Director  
IIT Kharagpur
- Chairperson:** Prof. Kinsuk Naskar, HoC  
Rubber Technology Centre
- Conveners:** Prof. Nikhil K. Singha  
Prof. Narayan C. Das
- Members:**
- Prof. Greg. Qiao
  - Prof. M. Ashokkumar
  - All faculty members of RTC

**Registration is free, but is compulsory  
on or before 15<sup>th</sup> Feb 2023.**

**Register through: (CEP online link)**

**<https://erp.iitkgp.ac.in/CEP/courses.htm>**

**\*For any queries contact**

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**[nks888@yahoo.com](mailto:nks888@yahoo.com) / [ncdas@rtc.iitkgp.ac.in](mailto:ncdas@rtc.iitkgp.ac.in)**

### **About Rubber Technology Centre (RTC):**

RTC is a unique Centre, the first of its kind in our country and was established in 1955 in the Department of Applied Chemistry in IIT, Kharagpur for the purpose of teaching and research in rubber under the collaborative program with the British Government, the USA Government and Ministry of Education, Government of India. The independent RTC was established in 1981. Since its inception, this Centre has done pioneering work in research and education in rubber and polymer science and technology. In 2014, RTC was awarded as the best Institute in Asia for education and research in Rubber Science & Technology by the 'Rubber Asia' magazine. The state-of-the-art research program of the Centre is focused on the development of new functional advanced rubbers, polymers and their (nano)composites, novel processing technology & die design, polymer blends, novel block and graft copolymers, thermoplastic elastomers (TPE) and thermoplastic vulcanization (TPV), smart polymers/elastomers used in self-healing applications, shape-memory polymers, packaging, sensors, battery, EMI shielding as well as in bio-medical applications. The Centre also works on modeling & simulation, green tire technology, new processes for recycling, sustainable processes for polymerization. RTC has close collaboration with the academia as well as many polymer/rubber industries in India & abroad.

### **About Indian Institute of Technology Kharagpur**

IIT KGP is the first and largest of 23 member IIT family was established in year 1951 at Hijli 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.

### **About University of Melbourne, the Collaborating Institute:**

The UM is a public research university located in Melbourne, Australia. Founded in 1853, it is Australia's second oldest university. The university comprises ten separate academic units and is associated with numerous institutes and research centres, including the Walter and Eliza Hall Institute of Medical Research, Florey Institute of Neuroscience and Mental Health etc. The university has fifteen graduate schools, including the Melbourne Business School, the Melbourne Law School and the Melbourne Medical School. Times Higher Education ranked the University of Melbourne first in Australia and 34<sup>th</sup> globally in 2023, while the Academic Ranking of World Universities places it 35<sup>th</sup> in the world. Eight Nobel Laureates have taught, studied and researched at this University, the most of any Australian university.