

Workshop  
on

## Functional Polymers and Its Nanocomposites

**FPN** 2024

**February 9-10, 2024**

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



Organized by  
**Rubber Technology Centre, IIT Kharagpur**  
In collaboration with  
**University of Warwick, United Kingdom**

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

Under the aegis of  
**SPARC Program (MHRD, Govt. of India)**



**SPARC**  
Scheme for Promotion of Academic and Research Collaboration



**FPN** 2024

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 advancement of polymer synthesis and carbon 2D materials (graphene, graphene oxide, reduce graphene oxide) based composites for different the applications such as electronics, energy, coating, and biosensor etc. An assortment of plenary talks, invited lectures, and poster presentations are going to be held during the workshop. Prof. David M. Haddleton and Prof. Tony McNally of the University of Warwick, UK are the foreign collaborators of this SPARC project.

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

- ✓ Synthesis of functional polymers and elastomers
- ✓ Nanocomposites based on nano-carbons etc.
- ✓ Specialty applications of Functional Polymer-Composites
- ✓ Green and Sustainable Approach

### Organizing Committee

Patron:	Professor Virendra K. Tewari, Director, IIT Kharagpur
Chairperson:	Prof. Kinsuk Naskar, Head Rubber Technology Centre
Convener:	Prof. Nikhil K. Singha, Rubber Technology Centre
Members:	Prof. Tony McNally, University of Warwick, UK Prof. Dave Haddleton, University of Warwick, UK Faculty Members of Rubber Technology Centre

**Registration is compulsory on or before 2<sup>nd</sup> Feb 2024.**

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

**\*\*\*\*To Be Updated Soon\*\*\*\***

**Accommodation: on arrival and payment basis**

**\*For any queries contact**

**Email- [fpnrtc2024@gmail.com](mailto:fpnrtc2024@gmail.com) / [nks8888@yahoo.com](mailto:nks8888@yahoo.com)**

### **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 Warwick, the Collaborating Institute:**

The University of Warwick is a public research university on the outskirts of Coventry between the West Midlands and Warwickshire in UK. Established in 1965, the university is known for its strong emphasis on research and innovation. Warwick offers a wide range of programs across disciplines like business, science, humanities, and engineering. This university comprises 15 arts, 11 science and engineering, 15 social science departments, and 35 cross-faculty centers. Times Higher Education ranked the University of Warwick 14th in the UK, while the Academic Ranking of World Universities places it 67th in the world. The university maintains its standing as a premier establishment at the forefront of innovation and academic success because to its commitment to quality in both teaching and research.