

International colloquium
on

New Generation Advanced Materials



NGAM 2024

November 8, 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 : Smart Class Room F-232 , Main Building,
IIT Kharagpur

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



SPARC
Scheme for Promotion of Academic and Research Collaboration



NGAM 2024

This colloquium is organized under the SPARC program (MHRD, Govt. of India). The objective of this colloquium is to provide a platform to the research community to discuss and exchange their ideas on New generation advanced materials in the designing of advanced materials, functional polymer composite based on Nano- carbon materials, Sulfur, Vitrimer etc. and their application in automotive sector, energy, paints & coatings, and biomaterials. Prof. Tony McNally, Prof. David M. Haddleton of the University of Warwick, UK, the foreign collaborators of this project will deliver their lectures.

Topics likely to be discussed during the Colloquium:

- ✓ Synthesis and characterization of the advanced nanomaterials
- ✓ Next generation Nanocomposites based on nano-carbons & sulfur etc.
- ✓ Advanced materials in energy, automotive, paints and coatings

Organizing Committee

Patron :	Professor Virendra Kumar 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 deadline:- 5th November
Register through (CPE registration link)

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

Registration Fees

Research Scholars/Students :- Rs.-500/-

Academia :- Rs.-1000/-

Industry delegates:-Rs.-2000/-

For any queries contact

Email:- ngamrtc2024@gmail.com / 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 as a part of 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 advanced functional rubbers, polymers and their (nano)composites, novel processing technology & die design, polymer blends, novel block and graft copolymers, thermoplastic elastomers (TPE) and thermoplastic vulcanizates (TPV), and their different applications such as in self-healing material, shape-memory polymers, packaging, sensors, battery, EMI shielding, flexible electronics, as well as in bio-medical applications. The Centre also works on modeling & simulation, green tire technology, new processes for recycling, sustainable materials and processes. 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, 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 (UoW) 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 UoW 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. At UoW, Warwick manufacturing group (WMG) is an academic department which play an important role in collaboration between academia, public and private sectors. IIT KGP has an MoU with UoW.