



**Cat4SusChem**  
Catalysis for Sustainable Chemistry

## Indo-German workshop



### “Cat4SusChem”

Catalysis for Sustainable Chemical Synthesis  
and Energy Technologies: Towards Industrial

Relevance

**September**  
**23<sup>rd</sup>-26<sup>th</sup>, 2025**



Institute of Nano Science and Technology

## Institute of Nanoscience and Technology

Sector-81, Knowledge City, SAS Nagar,  
140306 Mohali, Punjab, India

**Organizing Institutes:** **Supported by:**



### About “Cat4SusChem”

With rising energy demand and climate concerns, achieving net-zero emissions by 2050 is crucial. India and Germany are jointly advancing green hydrogen, biofuels, and renewable energy technologies. To strengthen this collaboration, an Indo-German workshop serve as platform for academia-industry exchange, focusing on hydrogen, CCU, biomass valorization, and energy solutions. The aim is to foster collaboration, develop scalable technologies, & strengthen economic resilience.

### About IGSTC

Indo-German Science & Technology Centre (IGSTC) is a joint initiative of DST, India, & BMFT, Germany. It was established to promote R&D collaboration between the two nations. IGSTC connects government, academia, and industry to foster innovation. Its mission is to drive economic growth & societal development by joint efforts.

### About INST

Institute of Nano Science and Technology (INST), Mohali, established under DST's NANO MISSION, advances research in nanoscience and nanotechnology. With interdisciplinary expertise in organic and inorganic chemistry, catalysis, biomaterials, and quantum materials, it aims to generate processes, technologies and devices directed towards national priorities.

### About BPCL

Bharat Petroleum, India's second-largest public sector oil marketing and a Fortune 500 integrated energy company has established a robust presence across the entire energy value chain. At the forefront of BPCL's innovation agenda is its Corporate Research & Development Centre (CRDC), that actively drives breakthroughs in sustainable fuels, refinery processes, and clean technology solutions.

### About LIKAT

Leibniz Institute for Catalysis (LIKAT) is first European research institution dedicated exclusively to catalysis. Today, it is one of largest publicly funded research institutes in the field of applied catalysis in Europe with excellent infra-structure facilities. The mission of LIKAT is to provide globally competitive & environmentally friendly technologies with reference to industrial needs. The objective is to achieve world-class expertise in frontier areas of heterogeneous & homogeneous catalysis, chemical process design, modeling & simulation.

### Eminent speakers from India

Prof. G. D. Yadav (ICT, Mumbai), Prof. M. Lakshmi Kantam (ICT, Mumbai), Prof. Ashok Kumar Ganguli (IISER, Berhampur, Odisha), Prof. Kamal Kishore Pant (IIT, Roorkee), Dr. R.V. Jasra (RIL, Mumbai), Dr. Akula Venugopal (IICT, Hyderabad), Dr. Chanchal Samanta (BPCL, Greater Noida), Prof. Sayan Bhattacharyya (IISER, Kolkata), Prof. Tokeer Ahmad (JMI, New Delhi) Prof. Ekambaram Balaraman (IISER, Tirupati), Mr. Amit Bansal (BASF India, Mumbai), Dr. Rohini Gupta (BASF India, Mumbai), Dr. Kishore Natte (IIT, Hyderabad), Dr. Sayanti Chatterjee (IIT, Roorkee), and Prof. Kamalakannan Kailasam (INST, Mohali)

### Eminent speakers from Germany

Dr. Erdmann Sebastian Wohlrab (LIKAT, Rostock), Dr. Hannes Richter (Fraunhofer- IKTS, Hermsdorf), Dr. Günter Schmid (Siemens Energy Global, Erlangen), Prof. Ulf-Peter Apfel (Ruhr-Universität Bochum & Fraunhofer UMSICHT, Oberhausen), Prof. Shoubhik Das (UBT, Bayreuth), Dr. Nikki Ying-Tung Man (HU, Berlin), Dr. Dominik Seeburg (Arcelor Mittal Eisenhüttenstadt), Dr. Clement Owusu Prempeh (DBFZ, Leipzig), Dr. Albert Gili de Villasante (HZB, Berlin), Dr. Venkata Narayana Kalevaru (LIKAT, Rostock), Dr. Ralf Jackstell (LIKAT, Rostock), Dr. Steffi Hlawenka (HZB, Berlin), Dr. Christiane Kuretschka (BASF, Ludwigshafen), Dr. Alexander Schoekel (DESY, Hamburg), and Dr. Anton Joseph Nagy (ILS, Berlin)

### Conveners

- Dr. Kamalakannan Kailasam, Scientist-G, INST Mohali
- Dr. Bharat Newalkar, Chief General Manager (R&D), BPCL, Greater Noida
- Dr. Sebastian Wohlrab, Scientist, Leibniz Institute for Catalysis, Rostock, Germany

### Website

[https://inst.ac.in/Conference\\_2025/indo-german-workshop-cat4suschem](https://inst.ac.in/Conference_2025/indo-german-workshop-cat4suschem)