



DAY 3

Technical Programme "Cat4SusChem"

25.09.2025

C.V. Raman Auditorium, INST Mohali

Time	Programme
Session 8	Session Chair: Dr. Guenter Schmid (Siemens Energy Global, Erlangen)
9:30-10:00	L21- Prof. M. Lakshmi Kantam (ICT Mumbai) Design and Development of Heterogeneous Catalysts for the Sustainable Chemical Industry
10:00-10:30	L22- Dr. Clement Owusu Prempeh (DBFZ, Leipzig) DBFZ Innovations in Thermochemical Conversion and Emission Reduction Technologies for Sustainable Bioenergy
10:30-11:00	L23- Prof. Tokeer Ahmad (Jamia Millia Islamia, New Delhi) Multi-component Semiconducting Heterostructure Systems for H ₂ Production using Overall Catalysis
11:00-11:30	High Tea
Session 9	Session Chair: Dr. Kishore Kumar, BPCL, Greater Noida
11:30-12:00	L24- Dr. Steffi Hlawenka (HZB, Berlin) Accelerating Catalysis Research for Green Fuels and Sustainable Chemicals through Digitalization: Integrating Data Science into Experimentation
12:00-12:30	L25- Dr. Kishore Natte (IIT Hyderabad) Advances in Catalysis for Chemical and Pharmaceutical Synthesis
12:30-13:00	L26- Dr. Nikki Ying-Tung Man (HU, Berlin) From Startup to Classroom: Embedding Green Chemistry and Sustainability in Industry and Education
13:00-14:00	Lunch at Incubation centre, INST Mohali
Session 10	Session Chair: Dr. Bhanu Prakash (INST Mohali)
14:00-14:30	L27- Dr. Albert Gili de Villasante (HZB, Berlin) Thin films for heterogeneous catalysis
14:30-15:00	S1: Ms. Bhawna Rawat, INST Mohali Stable Lead-Free Halide Perovskites: Unlocking Untapped Potential S2: Ms. Shivali Dhingra, INST Mohali Fueling the Future: Solar-Driven Paradigm for Biomass valorization without external H ₂
15:00-15:30	Concluding remarks followed by High Tea Shri. Aniruddha Dilip Kulkarni, BPCL, Greater Noida Dr. Anton Nagy, ILS-GmbH, Berlin Dr. Bhanu Prakash, INST Mohali
15:30	Departure to BPCL R & D Centre, Greater Noida for German Delegates



INDO-GERMAN WORKSHOP

Cat4SusChem

Catalysis for Sustainable Chemical
Synthesis and Energy Technologies

Towards Industrial Relevance

SEPTEMBER **23-26** 2025



Organized by



EVENT ITINERARY





DAY 1

Technical Programme "Cat4SusChem"

23.09.2025

C.V. Raman Auditorium, INST Mohali

Time	Programme
9:30-10:00	Registration
10:00-11:15	Inauguration Dr. Praveen Kumar Somasundaram, Head International Cooperation, DST Dr. Kusumita Arora, Director, IGSTC Shri. Chandrasekhar N., Head R&D, BPCL Dr. Akash Deep, Director, INST Mohali Dr. Sebastian Wohlrab, LIKAT Rostock Dr. Bharat Newalkar, BPCL Dr. Kamalakannan Kailasam, INST Mohali Plenary Session – Prof. G.D. Yadav, ICT Mumbai - Aiming for the Net Negative Goal to Achieve Sustainability
11:15-11:45	High Tea
Session 1	Session Chair: Dr. Christiane Kuretschka (BASF, Ludwigshafen)
11:45-12:15	L1- Dr. Hannes Richter (Fraunhofer-IKTS, Hermsdorf) Carbon membranes for shifting the chemical equilibrium in membrane reactors
12:15-12:45	L2- Prof. Kamal Kishore Pant (IIT Roorkee) Green Catalysis Approach for Converting Industrial Carbon to Chemicals
12:45-14:30	Group Photo followed by Lunch at Incubation centre, INST Mohali
Session 2	Session Chair: Dr. Bharat Newalkar (BPCL, Greater Noida)
14:00-14:30	L3- Dr. Guenter Schmid (Siemens Energy Global, Erlangen) Scaling and Production Ramp-up, the Major Challenges for the Hydrogen Economy
14:30- 15:00	L4- Prof. Akula Venugopal (IICT Hyderabad) Synthesis of 2,6-dimethylpyrazine by dehydrocyclization of aqueous glycerol and 1,2-propanediamine over Cu–Cr–O catalyst
15:00- 15:30	L5- Dr. Sebastian Wohlrab (LIKAT Rostock) Current development paths on the way to a chemical battery
15:30-16:00	High Tea
Session 3	Session Chair: Dr. Sunil A. Patil (IISER Mohali)
16:00-16:30	L6- Prof. Kamalakannan Kailasam (INST Mohali) Metal-free Heptazine based Photoredox Catalysts for Sustainable Fuels and Chemicals: Towards Pilot Scale Production
16:30-17:00	L7- Dr. Ralf Jackstell (LIKAT Rostock) Homogenous Carbonylation with Different Metals
17:00-18:00	Panel discussion: Net zero goals: Academia and Industry view Moderator: Dr. Rohini Gupta (BASF, Mumbai)
	Indian representation Industry: Dr. Raj Kumar Das Academia: Prof. Ekambaram Balaraman German representation Industry: Dr. Guenter Schmid Academia: Prof. Ulf-Peter Apfel
19:30-22:00	Dinner for Delegates at Novotel, Chandigarh

DAY 2

Technical Programme "Cat4SusChem"

24.09.2025

C.V. Raman Auditorium, INST Mohali

Time	Programme
Session 4	Session Chair: Dr. Sebastian Wohlrab (LIKAT Rostock)
9:30-10:00	L8- Prof. Ashok Kumar Ganguli (IISER Berhampur) Design of Nanocrystalline heterostructures for energy conversion
10:00-10:30	L9- Dr. Christiane Kuretschka (BASF, Ludwigshafen) Carbon Footprints of Raw Materials: How to Catalyze Transparency & Measures for Reduction
10:30-11:00	L10 - Prof. Sayan Bhattacharyya (IISER Kolkata) The Art of Electrocatalyst Design through Electronic Synergy within Crystallographic Contrasts
11:00-11:30	High Tea
Session 5	Session Chair: Prof. Rajendra Srivastava (IIT Ropar)
11:30-12:00	L11- Prof. Ulf-Peter Apfel (Ruhr University, Bochum & Fraunhofer UMSICHT) The Necessity of Optimizing Catalyst Integration for CO ₂ Reduction and Water Splitting in Application-Ready Reactors
12:00-12:30	L12- Dr. Chanchal Samanta (BPCL, Greater Noida) Integration of Refining with Sustainable Chemistry: A way forward
12:30-13:00	L13- Dr. Anton Nagy (ILS-GmbH, Berlin) Market-Driven R&D Tool Solutions for Circular Chemistry: Tackling High-Temperature and Challenging Corrosive Feedstocks
13:00-14:00	Lunch at Incubation Centre, INST Mohali
Session 6	Session Chair: Dr. Chandan Bera (INST Mohali)
14:00-14:30	L14- Prof. Shoubhik Das (University of Bayreuth, Bayreuth) Lighting the Way: Photocatalysis for a Sustainable Chemical Future
14:30-15:00	L15 - Prof. Ekambaram Balaraman (IISER Tirupati) Sustainable Chemical Production via Catalytic Dehydrogenation Strategy
15:00-15:30	L16- Dr. Dominik Seeburg (Arcelor Mittal, Eisenhüttenstadt, Germany) Green Steel – Challenge for industrial application in Germany
15:30-16:00	High Tea
Session 7	Session Chair: Dr. Ujjal K. Gautam (IISER Mohali)
16:00-16:30	L17- Mr. Amit Bansal (BASF, Mumbai) Enabling Sustainability Initiatives for the Indian Chemical Industry through Commercially Proven Catalytic Technologies
16:30-17:00	L18- Dr. Narayana Kalevaru (LIKAT Rostock) In-depth characterization of Pd catalysts to understand deactivation phenomenon: Impact of Pd size & Surface composition
17:00-17:30	L19- Dr. Sayanti Chatterjee (IIT Roorkee) Tuning Redox Reactivity for Sustainability: Homogeneous Catalysis with Transition Metals and Beyond...
17:30-18:00	L20- Dr. Alexander Schöckel (DESY, Hamburg) The ROCK-IT project
19:30-22:00	Gala Dinner for Delegates at Novotel, Chandigarh