



**THAPAR INSTITUTE**  
OF ENGINEERING & TECHNOLOGY  
(Deemed to be University)



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
SCIENCE & TECHNOLOGY



The Catalysis Society  
of India (CSI)

**DST-PURSE supported**

**24<sup>th</sup> National Symposium on Catalysis (CATSYMP-24)**

**“Catalysis for Sustainable Chemicals, Materials & Energy”**

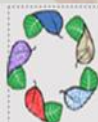
**(CSCME-2025)**

**24-26 February 2025**

**Golden Jubilee celebrations of the Catalysis Society of India (CSI)**

Catalysis has provided technical solutions to meet the challenges of Food security, Mobility, Materials, Health security, and Environmental pollution, faced by civilization in the past. Presently, humankind is facing the issues of global warming, setting up carbon-neutral manufacturing industries, and production of cleaner fuels. Catalysis is again emerging as a key technology to overcome present challenges. The symposium aims to bring together scientists working in the diverse fields of catalysis to facilitate the exchange of ideas and discuss recent advancements in catalysis research to propose research directions towards solutions to these issues. The symposium will provide a platform for the researcher and students to deliberate on a clear vision and roadmap for the fundamental and technological breakthroughs in research and development of catalysis in achieving carbon neutrality for a sustainable future. The event will also mark the Golden Jubilee celebrations of the Catalysis Society of India (CSI).

**Aligned with India's National Missions**



**WASTE TO WEALTH**  
Swachh Bharat Unnat Bharat





## Thapar Institute of Engineering and Technology, Patiala

Founded in 1956, Thapar Institute of Engineering and Technology (TIET) stands as one of India's oldest and most respected institutions, supplying skilled talent to both national and global sectors. Situated on a 250-acre campus in Patiala, TIET leads in engineering education, research, and innovation. It ranks among India's top innovation-driven universities, holding an 'A+' accreditation from the National Assessment and Accreditation Council (NAAC) and securing the 29th spot in the 2024 NIRF Engineering rankings. TIET promotes a collaborative and entrepreneurial culture, partnering with international institutions like Trinity College Dublin, Tel Aviv University, Virginia Tech, University of Queensland, University of Toledo and University of Leeds. These alliances enable dual degree programs, global internships, and joint research initiatives, enriching the academic experience. The institute's Venture Lab serves as a hub for innovation, having supported over 70 startups across diverse sectors, from technology and health to sustainable solutions, empowering students to transform ideas into impactful ventures.

TIET has been awarded the DST-PURSE grant in 2023 to strengthen the ongoing research and development activities. Under the scheme, financial support of Rs 21.5 Cr has been granted by the DST to establish the XPS and HRTEM facility within the institute.

### Department of Chemistry & Biochemistry

Department of Chemistry and Biochemistry (DST-FIST sponsored) initiated its journey as an independent school in 2002 to endorse teaching and research in Chemistry. The department offers M.Sc.(Chemistry) and Ph.D. degrees, besides teaching chemistry courses to engineering and liberal arts students. Currently, 60 students are pursuing their PhD degree in the diverse chemical sciences areas. . The research laboratories are well-equipped with specialized instruments, e.g., TGA, GC, GC-MS, HPLC, FTIR, UV-Vis, HRMS, NMR, Fluorimeter, BET surface area analyzer, TPD analyzer, etc.

### Catalysis Society of India (CSI)

The Catalysis Society of India was founded in March 1973 at Banaras with Prof. S.K. Bhattacharyya as the president and Prof. J.C. Kuriacose as the secretary. The main objectives of the CSI are to encourage catalysis research in India, to organize professional meetings between researchers, to enhance mutual interactions, and to encourage cooperation between industry and academia. During the past fifty years, the catalysis community in India has made significant strides in applied and fundamental research in developing and commercializing various catalytic processes and our researchers have published their discoveries in prestigious international research journals such as Nature, Science, Angewandte Chemie, Journal of Catalysis, and JACS.

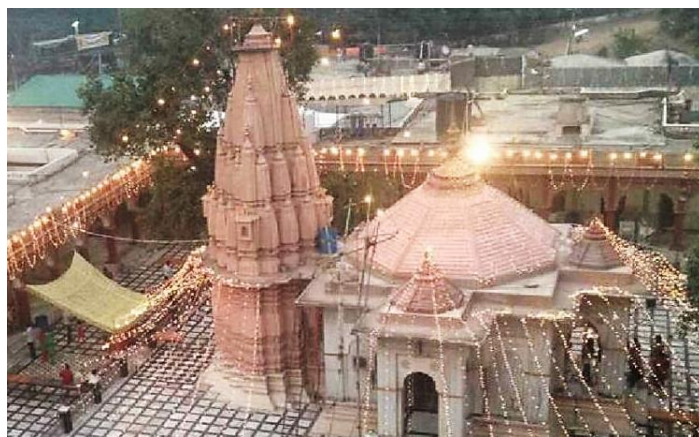
For more info: <http://www.catalysisindia.org>

## Patiala - A Royal City

Famous for 'phulkari chunni' (traditional flower work dupattas), 'pagri' (turban), 'paranda' (tasseled tag for braiding hair) and 'jutti' (footwear), joyous buoyance, royal demeanor, sensuous and graceful feminine gait and Aristocracy, Patiala presents a beautiful bouquet of life-style even to a casual visitor to the city. A brilliant spectrum of Rajput, Mughal and Punjabi cultures, a fine blend of modernity and tradition and a judicious synthesis of all that is beautiful in form and bold in spirit conjure up a vision called 'Patiala'. Qila Mubarak Complex, Baradari Gardens, Gurudwara Dukh Niwaran Sahib, Kali Mata Mandir and National Institute of Sports are major attractions of the city. Patiala connects to Delhi, Ambala, and Chandigarh well by rail and road. It is around 280 Km from IGI Airport Delhi and 60 Km from Chandigarh Airport. Shimla, Dharamshala, Manali, and Amritsar are nearby cities of attraction.



Dukh Niwaran Sahib, Patiala



Kali Mata Mandir, Patiala



Qila Mubarak, Patiala

## Current EC and Office-bearers for CSI

President:	Dr R V Jasra, RIL, Vadodara
Vice-President:	Prof P Selvam, IIT Madras, Chennai
Secretary:	Prof. R C Deka, Tezpur University, Tezpur
Joint-Secretary:	Dr N Viswanadham, CSIR-IIP, Dehradun
Treasurer:	Dr Paresh L Dhepe, CSIR-NCL, Pune
Members:	Dr A K Tripathi, BARC, Mumbai Dr G Kishan, Sravathi AI Tech. Pvt. Ltd. Prof G Ranga Rao, IIT Madras, Chennai Dr A Venugopal, CSIR-IICT, Hyderabad

## Symposium Organizing Committee

### 1. Core Steering Committee

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Prof. Kannan Srinivasan, Director, CSMCRI, Bhavnagar  
Dr. P Kumar, CEO, Adsorption Technologies, Vadodara  
Prof. Bhaskar Chandra Mohanty, DPMS, TIET  
Prof. B N Chudasama, Head DPMS, TIET

### 2. Local Organizing Committee

Chief Patron: Prof. Padma Kumar Nair (Director, TIET)  
Co Patron: Prof. Ajay Batish (Deputy Director, TIET)  
Convener: Prof. Manmohan Chhibber (Head, DCBC, TIET)  
Convener: Dr. K. V. Murthy, ( AVP, R&D, Reliance)  
Organizing Secretaries: Prof. Amjad Ali and Prof. Soumen Basu (TIET)

### 3. Organizing Committee Members

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Prof. Satnam Singh  
Prof. Bonamali Pal  
Prof. Ranjana Prakash  
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Prof. S. A. Salunke, Savitribai Phule Pune University, Pune  
Prof. Sonal Singhal, Panjab University, Chandigarh  
Prof. Rajendra Srivastava, IIT Ropar  
Prof. Tokeer Ahmad, JMI, New Delhi  
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Dr. Chiranjeevi Thota, General Manager (R&D), BPCL, Noida  
Dr. Sharad Lande, Vice President (R & D), Reliance  
Dr. Amitabha Acharya, Principal Scientist, IHBT Palampur

## Scientific topics for the conference

1. Homogeneous and heterogeneous
2. Catalysts preparation and characterization
3. Computational approaches in catalysis
4. AI and ML for catalyst design and related reactions
5. Chemical engineering and process technologies
6. Catalysts poisoning and regeneration
7. Photocatalysis and electro-catalysis
8. Catalysis in refining, polymer and petrochemistry
9. Catalysis in organic synthesis
10. Catalytic reactions for hydrogen storage and release
11. Catalysis in CO<sub>2</sub> capture and conversion
12. Catalysis in biomass valorization
13. Catalysis in water and air treatment
14. Enzymatic, hybrid and bioinspired catalysis
15. Catalytic mechanisms and kinetics
16. Catalysis in polymer degradation and upcycling
17. Catalysis for sustainable energy storage
18. Catalytic mechanisms and kinetics
19. Public policy, Standardization and Legislation
20. Any other topic related to catalysis



## Important Dates:

Abstract & Registration (Online):	<b>October 20, 2024</b>
Last date of Abstract Submission:	<b>January 15, 2025</b>
Notification of Abstract Acceptance:	<b>January 20, 2025</b>
Last date of Registration fee payment:	<b>February 10, 2025</b>
Symposium Dates:	<b>February 24-26, 2025</b>

## Registration Fees (in Rupees) +18% (GST)

*Accommodation charges are not covered by the registration fees mentioned above.*

*Accommodation for students will be arranged at institute hostels on a payment basis.*

*Accommodation for faculty and other delegates will be arranged in hotels on a payment basis.*

Delegates	Before Dec 15, 2024	Dec 16, 2024 to Feb 10, 2025	Spot Registration
Students	<b>1500</b>	<b>2000</b>	<b>3000</b>
Academia	<b>4000</b>	<b>5000</b>	<b>6000</b>
CSI life members	<b>3000</b>	<b>4000</b>	<b>5000</b>
Industry	<b>8000</b>	<b>10000</b>	<b>12000</b>

## Payment details

Name of Beneficiary: Thapar Institute of Engineering and Technology  
Account number: 0267104000092579  
Type of A/c: Saving  
Bank Name: IDBI Bank  
IFSC Code: IBKL0000267  
Bank Address: Plot no 644, Main Road, Tripuri Town, Patiala 147001, Punjab, India

OR

## SCAN & PAY



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Payment Accepted from all UPI Apps.

For more information, on symposium, scan QR code



Organized by:

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