

Catalysis Society of India

# CATSCHOL 2020

Online Conference

ICT MUMBAI

## Catalysis for Sustainable Development



DECEMBER  
19-20, 2020

<https://catscholar2020.wixsite.com/website>



# About

Catalysis is a crucial discipline for providing the scientific and technological foundation for sustainable petrochemicals, fine chemicals, pharmaceuticals, fuels, and renewables and providing energy security, food security to mankind, and a means to protect the environment. Catalysis plays a multi-dimensional impact on society. Catalysis is the essential chemical phenomenon that underlies all living systems and is a key to creating sustainable processes and a greener environment. Catalysts accelerate chemical reactions and efficiently channel energy into building complex molecular structures. Natural processes like photosynthesis have been efficiently using enzymes as catalysts in synthesizing these energy-packed macromolecules.

The ability to perform specific reactions with great precision through millions of cycles is the basis of sustainable processes. The efficient conversion of oil, gas, coal, and biomass into fuels and chemicals is made possible by modern catalytic technology.

In this Pandemic Situation, the Conference plans to bring together the researchers in academia and industries to share and explore the most recent and exciting developments in the field of Catalysis and Sustainable Development. The Conference is expected to display the numerous breakthroughs and significant developments in the important areas of catalysis for sustainable development and their relevance to the wellbeing of mankind.



Past CATSCHOL Event



## Areas of focus

Catalysis and Porous Materials  
Catalysis for Energy  
Chemical Engineering  
Heterogeneous Catalysis  
Catalysis in Nanotechnology  
Environmental Catalysis  
Catalytic Materials  
Chemical Synthesis and Catalysts  
Synthesis  
Petrochemical Engineering  
Green and Sustainable Chemistry  
Catalysis for renewable sources  
Catalysis for Biorefineries  
Photochemistry, Photobiology  
and Electrochemistry  
Homogeneous catalysis,  
Molecular Catalysis  
Reaction Chemistry and  
Engineering  
Industrial Catalysis and Process  
Engineering

## CATSCHOL-2020

Is  
Calling for  
Abstract

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Selected Papers will be  
published in the Journal  
of Catalysis in Green  
Chemistry and Engineering

[More About Journal](#)

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## Important Deadlines

20th November, 2020  
Registration

20th November, 2020  
Abstract Submission

30th January, 2021  
Paper Submission



## About Catalysis Society of India

The Catalysis Society of India (CSI) was formally founded in March 1973 at Banaras with Prof. S.K. Bhattacharyya as the president and Prof. J.C. Kuriacose as the secretary. The main mandates 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. The growth of the membership of the CSI is a measure of the growth of catalysis research activity in the country. The present membership of the society is in excess of 750 compared to 75 in 1974. At the time of the founding of the CSI, the major centers of research in catalysis were just a handful, the IITs (Madras and Kharagpur), PDIL (Sindhri), IIP (Dehradun) and IPCL/RIL (Vadodara). Catalysis research activity has spread to many more organizations during the past 42 years. During the last three decades, the catalysis community in India has made significant strides both in applied and fundamental research. Many catalysts and processes have been developed and commercialized, notably by IIP, PDIL, IPCL/RIL, NCL, IICT and ACC in petroleum refining, petrochemicals

manufacture, fertilizers production and fine chemicals synthesis. In basic research also, members of the CSI have made significant discoveries in catalysis resulting in publications in prestigious journals such as Nature, Science, Angew Chem and JACS. In catalysis education only the IITs and a few universities were active during the 1970s, whereas today Ph.D. students can be found in nearly all the aforesaid organizations and several universities.

The CSI encourages catalysis research through its awards: the Prof. S. K. Bhattacharya Eminent Scientist Award for senior researchers, the Sistla Kameswari Sidhantis Young Scientist Award for those below the age of 40 years and the Prof. L. M. Yadanapalli Best Thesis Award for very young researchers. These awards are normally presented during the national symposia. The activities of the society are managed by an executive committee of nine members who are elected for a two-year term by the members. The committee members elect among themselves the office bearers of the society, i.e., the President, the General Secretary, the Treasurer and the Joint Secretary.

[Learn More about CSI](#)

## About Institute of Chemical Technology

The Institute of Chemical Technology (ICT), Mumbai, is a unique Institute that was established on 1st October 1933 as a University Department of the Bombay University (UDCT), completing 87 years of glorious past. ICT has created its own brand over the years, which has been recognized by several prestigious awards and accolades to the faculty, students, and alumni individually and also as the institute. Under the World bank's Technical Education Quality Improvement Program (TEQIP), ICT was granted full autonomous status in 2004 and declared as Deemed-to-be University on September 12, 2008, by the MHRD under Section 3 of the UGC Act of 1956. It was bestowed an Elite Status and Centre of Excellence on par with IITs, IISc, and IISERs in the State Assembly on April 20, 2012, by the Maharashtra Govt. based on its stellar performance on par with the institutes of national importance. The genesis of ICT Mumbai is truly educative, and its achievements are inspirational. It now has three campuses: main (Mumbai) and two off-campus, Bhubaneswar, Odisha, and Marathwada, Jalna, which were opened during 2018-19 with innovative Integrated Master's degree and research programmes. We are in the midst of a huge Global and National crisis, and as a leading Technological

and Engineering Institute such as ICT, has to play an exemplary and leading role as it has done in the past in the time of every national and Industrial need. This time the situation is different, though, as, in addition to the technological contribution, we have to address the societal need as a priority.

ICT, Mumbai is housed on 16 acres of land in Mumbai and is running 9 UG (Chemical Engineering; 7 branches of Chemical Technology; 1 Pharmacy), 18 PG (9 interdisciplinary) and 29 Ph.D. programmes (11 interdisciplinary), 1 PG Diploma in Chemical Technology Management for doctoral students and 1 PG Certificate Course in Chemical Safety and Risk Management for all Masters students. ICT is governed according to special Statutes that go beyond the Deemed University concept as approved by the State. In a historic decision on February 12, 2018, the University Grants Commission declared Category I Deemed to be University status to ICT, which has maintained high academic standards (NAAC grade of A++ CGPA 3.77 out of 4). The Minister of Human Resource Development, The Central Government, is striving hard to introduce a liberalized and socially relevant academic regime in the education sector with emphasis is on linking autonomy with quality and societal relevance.

[Learn More about ICT](#)



## Plenary Lectures



### Dr. Raksh Vir Jasra

*FNA, FNAE*

Senior Vice President at Reliance Industries Limited

Honorary Faculty at Centre for Nanotechnology, IIT-Guwahati

With more than 38 years of Industrial experience in research and development in chemicals and petrochemicals. Holding the R&D leadership position for the last twenty-two years. Developed 52 and commercialized 18 technologies. Published 300 research articles. Supervised 27 students for the Ph.D. degree. Have 180 granted patents as an inventor Fellow, Indian National Academy of Engineering; Fellow Indian National Academy of Sciences; Fellow, Gujarat Science Academy.

**Google Scholar Citations: 11052**  
**h-index: 55**

## Schedule

### 19<sup>th</sup> December 2020 Institute of Chemical Technology, Mumbai

<b>9: 00 am</b>	Inauguration
<b>9: 15 am</b>	Plenary Lecture by Dr. R V Jasra (Senior VP at RIL)
<b>9: 35 am</b>	Break
<b>9: 45 am</b>	Oral Presentation Virtual Session 1
<b>11: 15 am</b>	Break
<b>11: 30 am</b>	Oral Presentation Virtual Session 2
<b>1: 00 pm</b>	Lunch Break
<b>2: 00 pm</b>	Oral Presentation Virtual Session 3
<b>4: 00 pm</b>	Break
<b>4: 30 pm</b>	Oral Presentation Virtual Session 4

### 20<sup>th</sup> December 2020 Institute of Chemical Technology, Mumbai

<b>9: 15 am</b>	Plenary Lecture by Speaker 2
<b>9: 35 am</b>	Break
<b>9: 45 am</b>	Oral Presentation Virtual Session 5
<b>11: 15 am</b>	Break
<b>11: 30 am</b>	Oral Presentation Virtual Session 6
<b>1: 00 pm</b>	Lunch Break
<b>2: 00 pm</b>	Oral Presentation Virtual Session 7
<b>4: 00 pm</b>	Vote of Thanks

For latest updates please visit our website





# Organizing Team

Catalysis Society of India, Mumbai Chapter

Chairman: Prof. B. M. Bhanage

Secretary: Prof. V. K. Rathod

Treasurer: Prof. R. V. Jayaram

Dr. Sharad Lande

# Student Committee

Dr. Govind Waghmare

Mr. Keyur Moradiya

Mr. Dhairyashil Santre

Miss Rakhi Vishwakarma

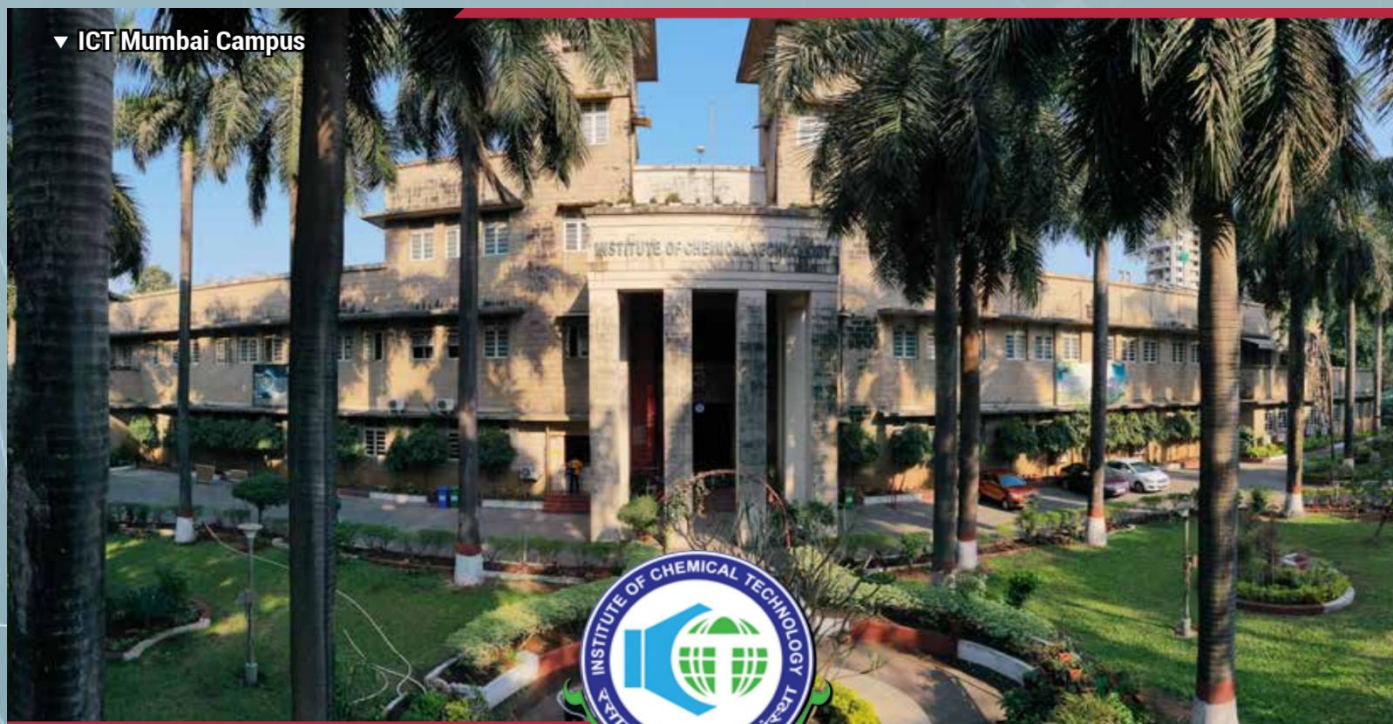
Mr. Snehal Gajbhiye

Mr. Vishal Khomne

Institute of Chemical Technology, Mumbai



▼ ICT Mumbai Campus



▲ ICT Mumbai-IOCI Bhubaneswar Campus



▲ ICT Marathwada Jalna Campus