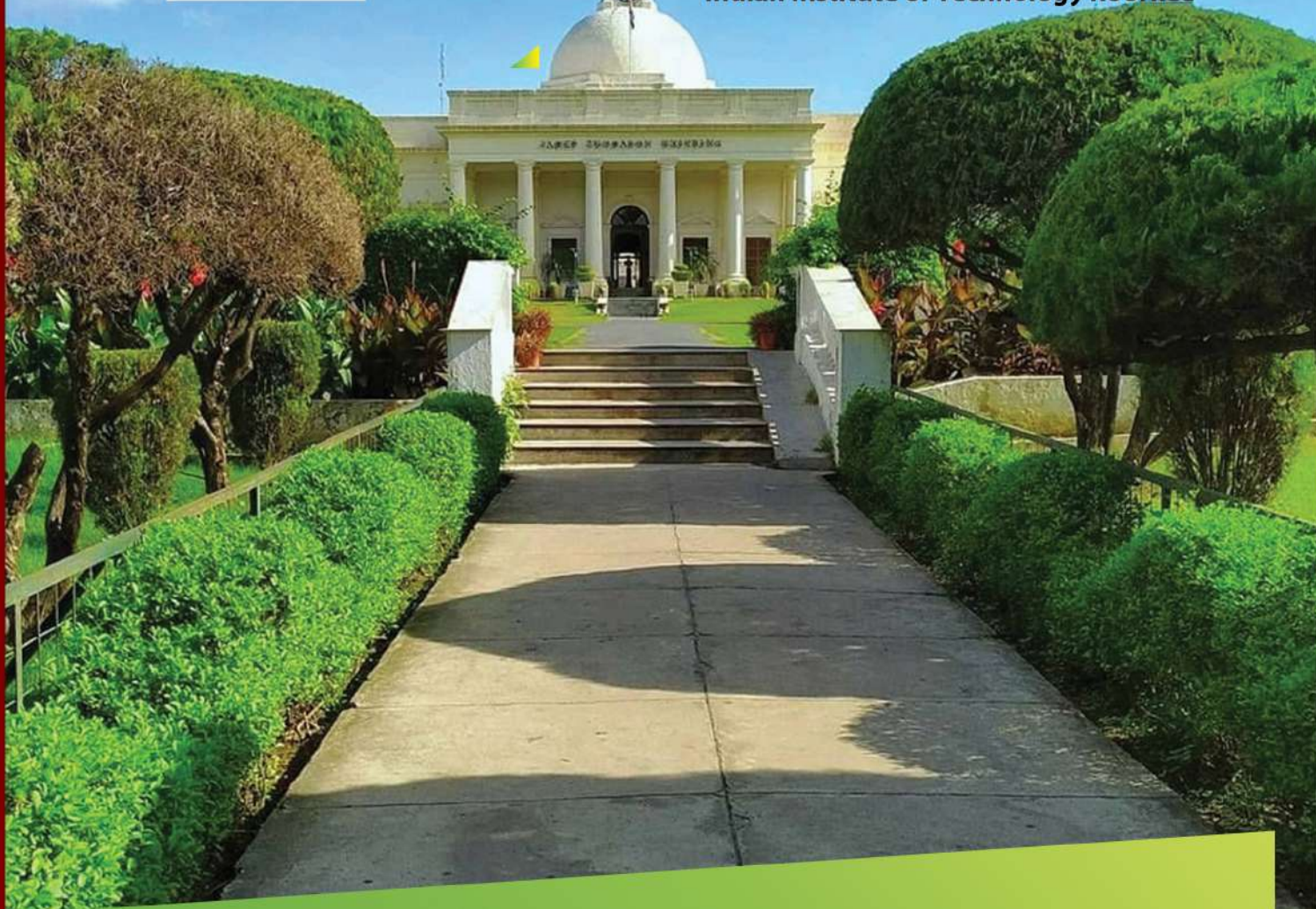




175 YEARS OF
IIT ROORKEE
Estd. 1847

Indian Institute of Technology Roorkee



INTERNATIONAL CONFERENCE
(Hybrid Mode)

September 08-10, 2022

CHEMICAL ENGINEERING:
**ENABLING TRANSITION
TOWARDS SUSTAINABLE FUTURE**

Abstract Submission Starts	April 10, 2022
Abstract Submission Ends	August 07, 2022
Notification of Abstract Acceptance	August 08, 2022
Early-bird Registration Starts	August 08, 2022
Early bird registration Ends	August 22, 2022
Deadline for full manuscript submission	August 31, 2022



Major Themes



Eco/Enviro-Friendly Separation and Transport Processes

- Recent developments in separation science in accordance with the principles of green chemistry such as energy-efficient separations, use of benign solvents, and zero hazardous waste generation
- Multiphase flow, transport with heat and mass transfer
- Gas and liquid transport



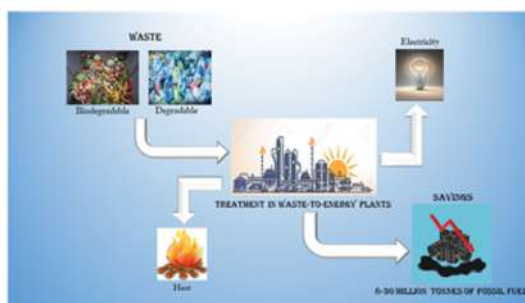
Next-Generation Catalysis

- Next-generation nano-scale catalysis
- Single atom catalysis
- Homogeneous and heterogeneous catalysis
- Biocatalysis
- Green catalysis



Sustainable Energy Cycle – Including Production, Storage and Utilization

- Lithium-ion battery, fuel cell technology, hydrogen energy, solar energy, supercapacitors
- Clean coal technology – gasification, liquefaction, and direct combustion.
- Carbon dioxide sequestration and conversion to value-added products
- Life cycle assessment of sustainable energy technologies



Waste to Wealth in Chemical Engineering

- Valorization of organic wastes via recovery of chemicals and materials
- Thermo-chemical, biochemical and/or physico-chemical conversion processes (or combinations thereof) of organic wastes
- Post-processing of bio-based main and by-products

Registration Fee

Category	Conference Fees	Dates
Research Scholars/Graduate Students	INR.1000/	August 08-22, 2022
	INR.1500/-	After Due date
Faculty	INR.2500/-	August 08-22, 2022
	INR.3000/-	After Due date
Industries	INR.5000/-	August 08-22, 2022
	INR.6000/-	After Due Date
International Student/Faculty/Industry	USD 100	August 08-22, 2022
	USD 150	After Due Date

Note : Acomodation charges not Included in Registration fees

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About the Conference

The conference is being organized by the Department of Chemical Engineering, IIT Roorkee to commemorate the 175 years of its establishment. The theme of the conference includes all major domains of chemical engineering such as enviro-friendly separation and transport process, next generation catalysis, sustainable energy and storage, and waste to wealth in chemical engineering. The conference is intended to provide a platform for the exchange of ideas among the people working at different levels in academia and industries. Faculty members, scientists, persons from industries and other government agencies, research scholars, students, etc. can participate in the conference.

About the Institute

The Indian Institute of Technology Roorkee (established in the year 1847) is among the foremost Institutes of National Importance in higher technological education, and in engineering, basic and applied research. The Institute ranks amongst the best technological institutions in the world and has contributed to all sectors of technological development. The Institute, which is currently celebrating 175 years of its existence, offers Bachelors', Masters' and Ph.D. degrees through its 23 academic departments covering engineering, architecture and planning, humanities, and management, 1 school, and 10 centers. Students from 60 countries have received degrees from IIT Roorkee.

About the Department

The Department of Chemical Engineering was established in 1963 with an Undergraduate programme in Chemical Engineering. The department grew over the years and set very high standards in teaching and cutting-edge research. Over the years, the department has supported the local chemical and sugar industries. The department currently has over 24 faculty members and over 500 students. The department pursue research work in the broad areas of chemical engineering such as liquid & solid waste management, green catalysis, sustainable energy, energy storage, process design and intensification, process modelling & simulation, drug delivery, transport & separation processes, process safety, CO₂ capture & utilization, and biochemical and bioprocess engineering. The department runs a centre of excellence sponsored by the Ministry of Chemicals & Fertilizers.

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