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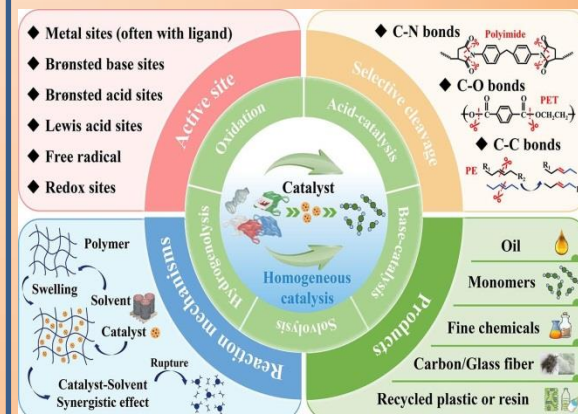
CORRESPONDENCE

Prof. H. M. Jena
Convenor, CRPWHC-2024
Department of Chemical Engineering
National Institute of Technology
Rourkela – 769008, Orissa, India
Mob:- 9437085967
E-mail: hmjena@nitrrkl.ac.in



One day seminar
On
**Chemical Recycling of Plastic Waste via
Homogeneous Catalysis (CRPWHC-
2024)**
(Hybrid mode)

16th November 2024



Organized by

Department of Chemical Engineering
NIT Rourkela
In association with
The Institution of Engineers (India)
ROURKELA LOCAL CENTRE

Venue: IEI, Rourkela Local Centre
Building
(NIT Campus, Rourkela)

ABOUT THE INSTITUTE

NIT Rourkela has a diversified academic program with 17 academic departments offering specialized courses at undergraduate, postgraduate, and doctoral levels of studies. The Institute currently offers 21 undergraduate programs in the major disciplines of engineering, architecture, science, humanities, and management, as well as postgraduate programs in diversified research areas. The Institute offers distinct programs such as B.Tech in Food Process Engineering, Biotechnology and Medical Engineering, and Ceramic Engineering, as well as a Bachelor of Architecture to meet the demands of contemporary times. While the academic programs offered by NIT Rourkela are in tune with the National Education Policy, the quality of education is continuously upgraded by periodical revision of syllabi based on the needs of industry and academia. With different inclusive initiatives and the introduction of a standardized education policy, over the years, the Institute's graduates have been great performers on professional fronts in India and abroad. With the focus on teaching and learning across departmental boundaries, technology, and management skills, NITians have been valuable assets to our country. For more details, visit <https://www.nitrkl.ac.in/>

ABOUT DEPARTMENT OF CHEMICAL ENGINEERING AT NIT ROURKELA

The Department of Chemical Engineering at NIT Rourkela is a leading centre for academic, excellence innovative research, and industrial collaboration. Established in 1961, the department has grown to become one of the most prestigious chemical engineering programs in India, consistently ranked among the top engineering schools in the country. It offers undergraduate degree (B.Tech) in Chemical Engineering, postgraduate degree (M.Tech) in two specializations: Chemical Engineering and Energy and Environment Engineering, and doctoral (Ph.D.) programs designed to foster a deep understanding of chemical engineering principles such as modeling and simulation, CFD, process control, environmental engineering, renewable energy, nanotechnology,

biochemical engineering, and so on while promoting interdisciplinary learning.

ABOUT IEI, ROURKELA LOCAL CENTRE

The Institution of Engineers (India) [IEI] is the largest multidisciplinary professional body, representing fifteen engineering disciplines and serving over 0.8 million members. Established in 1920 and headquartered in Kolkata, IEI was incorporated by Royal Charter in 1935, making it the only Indian professional body with this distinction. It supports engineers, academics, and researchers through 125 centers nationwide, offering services to government, industry, and academia. IEI also provides grants for research and maintains the International Professional Engineers (IntPE) Register for India

OBJECTIVE OF THE SEMINAR

Chemical recycling of plastic waste through homogeneous catalysis offers a sustainable solution to mitigate environmental challenges. This process utilizes various catalysts to depolymerize plastics under mild conditions, to obtain liquid fuels (alkane, cycloalkane and aromatic hydrocarbon etc.), high-value chemicals (terephthalic acid, bisphenol A and diols), and plastic monomers (bis(hydroxyalkyl) terephthalate). By selectively cleaving chemical bonds, this method enhances recycling efficiency and supports a circular economy.

Key themes of the seminar

- Plastic wastes chemical upcycling and closed-loop recovery
- *Recycling* high value-added chemicals
- Liquid fuels from plastic waste
- Plastic waste management
- Co-conversion of plastic
- Plastic as binder in bitumen

CALL FOR PAPERS

Original and unpublished research work/Practice on any one more of the themes indicated above are invited from practice engineering, academicians, R&D personal's consultants and manufactures. The paper should strictly conform the following:

- Abstract of the paper must be typed in single space within 300 words. The full text of the paper must not exceed 6 pages of A-4 size in single space using new Times Roman font of size 12 including abstracts, appendices, tables, illustrations and photographs. Author must submit one hard copy of his/her paper along with soft copy by email/CD in MS-words.
- SI System of units should be adopted.
- Typing should be done one side of the A-4size paper only with proper margin on all sides.
- All abstracts of paper will be published in the seminar souvenir. All paper proceeding will be published in CD.

IMPORTANT DATE

Submission of Abstract : **09 Nov. 2024**
Intimation of acceptance : **11 Nov. 2024**
Submission of Full Paper : **13 Nov. 2024**
Registration Date : **13 Nov. 2024**

REGISTRATION FEE DETAILS

Category	INR
Industry Fellow	2360
Faculty/Scientists/Postdoctoral fellow/Sponsored Delegates	1180
Corporate Member of IEI	590
Research Scholar/Student	354

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<https://forms.gle/E8o6ged4P6vpGEx8>

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