

National Seminar on Green Fuel Innovations for Energy-Intensive Industries

Organized by

Department of Chemical Technology,
University of Calcutta
&
Alumni Association

 **2nd January 2026**

 **Rashbehari Siksha Prangan
(Rajabazar Science College)**

Dr. Debarati Mitra Prof. Sriparna Datta
HOD, Dept. of Chem. Tech., CU Convener, Seminar Committee

Dr. Sachi Dulal Majumdar
President, Alumni Association

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Subject areas:

- Green chemistry & environment
- Sustainable Waste Management
- Advanced Chemical Engineering
- Materials Science & Engineering
- Biochemical Science & Engineering
- Pharmaceutical & Allied Sciences
- Food Technology
- Renewable Energy: Solar, Hydro, Wind, Biomass & Hydrogen

“Green fuel innovations, like biofuels, synthetic fuels (e-fuels), green hydrogen, and sustainable fuels are crucial for decarbonizing energy-intensive industries like petroleum, oil, ceramic and pharmaceuticals. These fuels offer alternatives to fossil fuels by utilizing renewable energy sources and can be used in various industrial processes, including direct combustion or as building blocks for other synthetic fuels. The petroleum & oil industries use hydrogen for refining fuels. Ceramic industries adopt hydrogen and biogas for high-temperature kilns, cutting carbon output. Cement employs hydrogen, and biomass to replace coal, lowering its share of global CO₂ emissions. In pharmaceutical research, green synthesis provides research opportunity in pharma fields like synthetic drug, analysis formulation development and natural product. Despite high costs and scalability challenges, green fuels will be competitive by 2030, enabling these industries to meet sustainability goals while maintaining efficiency.”

Who can participate?

All UG, PG students and Research scholars

Type of presentation

Oral presentation (PG and Research scholars)

Poster presentation (UG & PG students)

Registration

<https://forms.gle/CwUrPzp8k3FpS7eR7>

For query contact:
chemtechcuaa@gmail.com

Call for Abstract

(Selected abstract will be published in the seminar proceedings)

Awards

(for oral and poster presentation separately)

1 **₹5000**

2 **₹3000**

3 **₹2000**

Important Dates

- Call for abstract : 9th July 2025
- Submission deadline : 31st August 2025
- Notification of Acceptance : 15th October 2025
- Last date of registration : 31st October 2025

Registration Fees

Rs. 500 for all participants

(includes Registration kit, Certificate, Lunch and Tea)



All rights are reserved with the selection committee for acceptance of the abstract. Submitting an abstract does not guarantee its acceptance.