

Indian Institute of Technology
dhArwAD (IIT dhArwAD)
KarnATaka – 580011, INdia
www.iitdh.ac.in

DEPARTMENT OF CHEMICAL ENGG.

**ANRF-Sponsored
National Symposium
on**

SMART INTERFACES: COLLOIDS IN MEDICINE, ENERGY, AND MATERIALS

October 9-10, 2025

REGISTRATION FORM

Name: _____

Institution: _____

Designation: _____

Department: _____

Educational Qualification: _____

Specialization: _____

Communication Address: _____

Mobile No: _____

Email ID: _____

Applicant's Signature with Date

Signature of HoD/ Supervisor/Principal/Director
(with Seal)

REGISTRATION DETAILS

- The symposium is open to UG, PG students/Ph.D. scholars/faculty members from academic institutions/scientists from research organizations and professionals from the industry.
- The registration fee for participants is **Rs. 600/-** which includes expenses for the registration kit, certificate printing, as well as all-day lunch, refreshments like tea and snacks. Travel and accommodation expenses are to be borne by the participants.
- Interested participants are invited to submit their abstracts (**for poster presentations only**) using the designated submission form: <http://bit.ly/3HRVq5R>
- Abstracts must be prepared using the **prescribed template** provided in the form. Selected abstracts will be notified via email.
- A limited number of accommodation options may be available on campus for participants, including non-AC guest rooms and student dormitories. Lodging will be provided **subject to availability**, and expenses are to be borne by the participants **as per the prevailing institute rates**.

IMPORTANT DATES

- Deadline for Abstract Submission: **September 19, 2025**
- Notification of Acceptance: **September 22, 2025**
- Registration Deadline: **September 23, 2025**
(Please send a scanned copy of the completed registration form to the email address provided below)

ADDRESS FOR COMMUNICATION

Prof. C. Ravikumar/Prof. Ashok (Conveners)
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Organizing Team: Faculty members and staff of
Chemical Engineering Dept., IIT dhArwAD



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Patron

**PROF. Venkappayya R. dEsAi,
Director - IIT DHARWAD**

Convener

**Prof. C. Ravikumar
Associate Professor**

Co-Convener

**Prof. Ashok Kumar Ummireddi
Assistant Professor**

**Organized by
Department of Chemical
Engineering
Indian Institute of Technology
dhArwAD (IIT dhArwAD)
KarnATaka – 580011, INdia**

ABOUT IIT dhArwAD

IIT dhArwAD is an Institute of National Importance established in 2016 by the Ministry of Education, Government of India. Located in the serene and historic city of **dhArwAD, KarnATaka**, the institute is committed to excellence in teaching, research, and innovation across diverse disciplines of science and engineering.



With a vibrant and growing campus spread across a 470-acre permanent campus, IIT dhArwAD offers a dynamic academic environment supported by state-of-the-art laboratories, advanced research facilities, and a collaborative culture. The institute fosters interdisciplinary learning and emphasizes both foundational knowledge and emerging technologies to address real-world challenges.

Set amidst the Western Ghats, dhArwAD offers a pleasant climate and is well-connected by road, rail, and air through nearby **HubbaLLi**. IIT dhArwAD continues to attract talented students, researchers, and faculty from across the country and is steadily growing into a hub of academic and research excellence.

CHEMICAL ENGINEERING DPARTMENT

The Department of Chemical Engineering at IIT dhArwAD was established with a vision to create a center of excellence in education and research in chemical and allied engineering fields. The department offers undergraduate (B.Tech) and postgraduate (Ph.D.) programs, with a strong emphasis on core chemical engineering principles, computational tools, and interdisciplinary applications.

Our faculty are engaged in high-quality research in areas such as colloids and interfaces, soft matter, energy systems, catalysis, process modeling and simulation, electrochemical systems, reaction engineering, and materials science. The department actively collaborates with national and international institutes, and encourages innovation and entrepreneurship among students. With a growing infrastructure that includes modern laboratories, advanced research facilities, and a student-focused learning environment, the department aims to train the next generation of engineers and researchers to address the technological challenges of the future.

OBJECTIVES OF THE SYMPOSIUM

The symposium aims to bring together researchers, early-career scientists, and students to explore recent advances in colloidal science and smart interfaces, with a focus on their applications in medicine, sustainable energy, and advanced materials. It will foster interdisciplinary dialogue and promote collaboration across fields such as soft matter physics, nanotechnology, biomaterials, electrochemistry, and materials science.

Colloidal systems are central to innovations in drug delivery, biosensing, diagnostics, energy storage, and responsive materials. A deeper understanding of interface dynamics is essential for addressing global challenges like climate change, green energy, and affordable healthcare-goals echoed in the UN SDGs, Horizon Europe, and NIH programs. Nationally, the symposium aligns with missions like National Mission on Interdisciplinary Cyber Physical Systems, National Biopharma, and Energy Storage initiatives, while supporting the vision of *Atmanirbhar BhArat* through indigenous innovation in nanomedicine and sustainable technologies. With its dynamic research environment, IIT dhArwAD is an ideal host for this impactful event.

The program will feature invited talks by leading researchers from premier institutions across India, poster sessions, and panels with participation from academia, industry, and national/private labs. It seeks to build a robust academic network and strengthen India's leadership in colloid and interface science.

Best Poster Awards will be presented to outstanding student contributions.

LIST OF SPEAKERS

- * **Prof. Guruswamy Kumaraswamy – IIT Bombay** (Soft Matter, Rheology, Polymer Interfaces)
- * **Prof. Rabibrata Mukherjee – IIT Kharagpur** (Thin Films, Patterned Interfaces, Soft Lithography)
- * **Prof. Madivala G. Basavaraj – IIT Madras** (Colloid Science, Emulsions, Pickering Particles)
- * **Prof. Ethayaraja Mani – IIT Madras** (Self-Assembly, Nanomaterials, Patchy Colloids)
- * **Prof. Nirmalya Bachhar – IISc Bangalore** (Interface Science, Thermodynamics, Polymers)
- * **Prof. Sri Sivakumar – IIT Kanpur** (Photocatalysis, Nanomaterials for Energy & Water)
- * **Prof. Swati Sudhakar – IIT Madras** (Pharmaceutical Colloids, Nanodrug delivery systems)
- * **Prof. Rochish M. Thaokar – IIT Bombay** (Electrohydrodynamics, Drops & Bubbles, Vesicles)
- * **Prof. Pramod P. Pillai – IISER Pune** (Functional Nanostructures, Self-Assembly)
- * **Prof. Santosh Kumar Meena – IIT Ropar** (Nanoparticles, Colloid Synthesis, Optical Materials)
- * **Prof. Siddhartha Panda – IIT Kanpur** (Sensors, Biointerfaces, Electrochemical Systems)
- * **Prof. Kailas L. Wasewar – VNIT Nagpur** (Nanoparticles, Process Intensification, extraction)
- * **Dr. Vishal M. Dhavale, CSIR-CECRI Madras** (Nanocatalysts, Hydrogen production)

HOW TO REACH IIT dhArwAD

IIT dhArwAD is well connected by air, rail, and road:

By Air: The nearest airports are HubbaLLi (HBX, ~25 km) and BeLagavi (IXG, ~65 km), with regular flights from Bengaluru, Mumbai, Delhi, Hyderabad, Chennai, and Ahmedabad.

By Rail: dhArwAD Station (~10 km) and HubbaLLi Junction (~35 km) offer excellent rail connectivity.

By Road: IIT dhArwAD lies on NH-4 (Bengaluru-Pune highway) and is accessible by bus, taxi, or private vehicle. Travel time from Bengaluru is around 8-9 hours.