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International Conference on Micro Nano Fluidics

IIT Guwahati

October 31 - November 2, 2025



Call for Abstracts

Micro Nano Fluidics, the study and manipulation of fluids on the microscale and nanoscale, is crucial for medical diagnostics, drug delivery, and environmental monitoring. From lab-on-a-chip/organ-on-a-chip devices to applications in drug delivery, from sensors to fuel cells and smart agriculture, Micro Nano Fluidics holds transformative potential by enhancing precision, reducing usage of resources, and enabling portable, high-efficiency systems in various scientific and technological applications. The International Conference on Micro Nano Fluidics offers a platform for academic researchers and industry professionals from India and around the world to share recent research findings and discuss emerging topics in Micro Nano Fluidics. This event fosters collaboration, promotes exchange of ideas, and supports innovation across diverse applications. The inaugural conference was held at IIT Madras in 2023. ICOM 2025 is the second conference to be hosted at the Indian Institute of Technology Guwahati from October 31 to November 2, 2025.

Topics

Fundamentals

- ▶ Micro Nano-scale Flows & Droplet Microfluidics
- ▶ Active Matter, Biological Systems in Microfluidics
- ▶ Capillarity, Wetting & Open Surface Phenomena
- ▶ Field Driven Micro Nano-scale Phenomena
- ▶ Device Fabrication in Microfluidics
- ▶ Phytofluidics

Applications

- ▶ Cell Handling, Bioassays & Organ-on-a-chip
- ▶ Machine Learning in Microfluidics
- ▶ Drug Delivery & POC Diagnostics
- ▶ BioMEMS & Integrated Microfluidics Platforms
- ▶ Sensors, Actuators & Thermal Management
- ▶ Microreactors and Chemical Micro Processing

Important Dates

Abstract Submission	March 15 - May 31, 2025
Notification of Acceptance	July 15 - 31, 2025
Registration Starts	August 1, 2025
Early Bird Registration Ends	August 31, 2025
Conference Dates	October 31 - November 2, 2025



Abstract Submission

The conference will have oral and poster presentations, which will be selected based on a two-page extended abstract. The abstract template is available on the ICOM 2025 website.

Registration Information

Category	Early-bird Registration		Late/On-site Registration	
	Domestic (INR)*	Foreign (USD)*	Domestic (INR)*	Foreign (USD)*
Students	6500	250	7500	300
Post-docs/Scientists/Faculties	12500	450	15000	500
Industry Participants	25000	700	30000	750
Accompanying Person	5000	200	5000	200

*Exclusive of GST

Convenors

Pranab Kumar Mondal, Mechanical Engg.

Partho Sarathi Gooh Pattader, Chemical Engg.

Raghvendra Gupta, Chemical Engg.

Tapan K. Mankodi, Mechanical Engg.

Contact For additional information and queries, see event.iitg.ac.in/icom2025, or email us at icom2025@iitg.ac.in