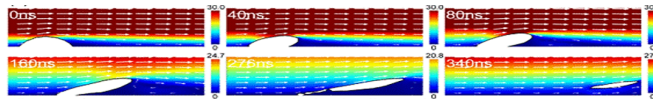


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HYDRODYNAMICS AT SMALL SCALES from soft matter to bioengineering

5th Workshop
From Nov 30th to Dec 3rd 2026
Indian Institute of Technology, Kharagpur, INDIA



OVERVIEW

VISIT THE MAIN WEB SITE OF IRN HYDROBIO : <https://irn-hydrobio.fr/>

OVERVIEW OF THE TOPIC

Small scale/bio fluidics is a highly interdisciplinary field that involves the study and control of mass-momentum-heat-species transport processes in fluid/particle/drop/bubbles/cell-related fundamental phenomena. These phenomena occur typically across multiple length and time scales and also within the human body and biological tissue down to the subcellular level, as well as artificially engineered devices in-vitro.

The different teams are directly or indirectly linked with the topic of soft matter :

- colloids,
- drops/bubbles,
- wetting,
- interface dynamics,
- atomization etc.

and bio-fluidics :

- endothelium mimicking real blood vessels,
- migrating cancer/tumor cells through capillary microvasculature,
- paper-and-pencil based microfluidics or
- microvascular physiology and flow instabilities.



5th EDITION

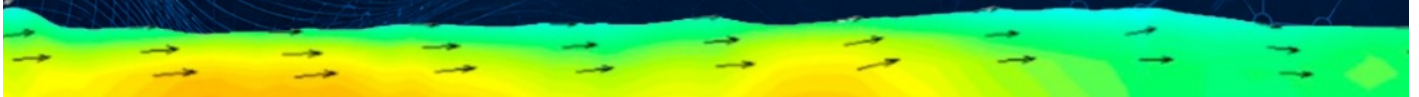
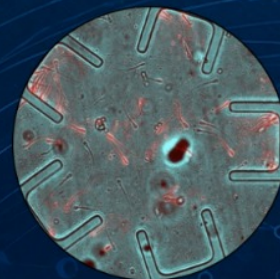
HYDRODYNAMICS AT SMALL SCALES

FROM SOFT MATTER TO BIOENGINEERING



NOV 30 - DEC 3 , 2026

INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR , INDIA





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