

Conference Schedule

International Conference on Flow Visualisation and Imaging Techniques (ICFVIT 2026)

Venue: TT Jagannathan Auditorium, ICSR Building, IIT Madras

Date: 13th - 15th February 2026

DAY 1 - 13.02.2026 (Friday)	
8:00 - 9:00 AM	Registration
9:00 - 9:30 AM	Inauguration
Session 1	
Chair : Prof. K. Muralidhar (IIT Kanpur)	
Invited talks	
9:30 - 10:10 AM	Drop-impact ejecta splashing studied via high-speed color interferometry Prof. Sigurdur Thoroddsen <i>KAUST</i>
Contributed Talks	
10:10 - 10:25 AM	Dual-wavelength interferometric measurements of temperature and concentration fields of a volatile droplet impacting a solid surface - Mohammad Shahdhaar (IIT Bombay)
10:25 - 10:40 AM	Drop shape and velocity field in drop splash Raghavendra S (IIT KANPUR)
10:40 - 11:00 AM	Tea Break
Session 2	
Chair : Prof. Cameron Tropea (TU Darmstadt)	
Invited talks	
11:00 - 11:40 AM	Imaging a Deforming Gas-liquid Interface for building contact angle models Prof. K. Muralidhar <i>IIT Kanpur</i>
11:40 - 12:20 AM	Generating, observing and characterizing internal gravity waves in stratified media Prof. Philippe Odier <i>ENS Lyon</i>
Contributed Talks	
12:20 - 12:35 AM	Experimental Study of Falling Films over Horizontal Tubes Using Digital Holographic Interferometry Jawahar Prakash (IIT Madras)
12:35 - 12:50 AM	Spiky contacts during the impact of an emulsion drop on a solid surface Krishna Raja Dharmarajan (KAUST Saudi Arabia)
12:50 - 1:05 PM	Adhesion force measurement on superhydrophobic and patterned surfaces using cantilever deflection Abhilash M. S. (IIT Madras)
1:00 - 2:00 PM	Lunch
Session 3	
Chair - Prof. Sigurdur Thoroddsen (KAUST)	
Invited talks	
2:00 - 2:40 PM	The heat transfer in the liquid drop contact line Dr. Vyacheslav Cheverda (Online) <i>Kutateladze Institute of Thermophysics SB RAS, Russia</i> https://us06web.zoom.us/j/87974763766?pwd=LQ4kmw5decwNjpPAUDe2vZ7vAcHedK.1#success
2:40 - 3:20 PM	10 Years of the Ring of Fire: Quantitative Flow Visualization for Transiting Objects Prof. Andrea Sciacchitano <i>TU Delft</i>
Contributed Talks	
3:20 - 3:35 PM	Estimation of Inertial Fog Droplet Capture on Cylindrical Fibers using Digital Inline Holography Sohom Goswami (IIT Kanpur)
3:35 - 3:50 PM	Mixed-Convection Free-Shear Flow Through Porous Screens Shashikant Pawar (Plaksha University)
3:50 - 4:10 PM	Tea Break
Session 4	
Chair: Prof. Atul Srivatsava (IIT Bombay)	
4:10 - 4:25 PM	Stabilizing Microfluidic Droplet Imaging Using a CD-Drive-Based Microstepping Linear Actuator Antony Xavier (IIT Madras)
4:25 - 4:40 PM	Investigation of Dense Particulate Suspensions in Stirred Tanks by Real-Time X-ray Radiography Technique Asif Bhat (IGCAR)
4:40 - 4:55 PM	Development of Tomographic Background-Oriented Schlieren for 3D density measurement in buoyant plumes Javed Mohd. (IIT Kanpur)
4:55 - 5:10 PM	Coherent Structures in a Turbulent Jet Vivek Mugundhan (KAUST Saudi Arabia)
5:10 - 5:25 PM	Liquid-in-liquid encapsulation during immiscible drop-pool impact Keshav V (IIT Madras)

DAY 2 - 14.02.2026 (Saturday)	
Invited talks	
Session 1 Chair: Prof. Andrea Sciacchitano (TU Delft)	
9:00 - 9:40 AM	Depth from Defocus Measurement Technique: Quo Vadis? Prof. Cameron Tropea TU Darmstadt
Flash Talks	
9:40 - 9:45 AM	Droplet dynamics of Newtonian and Non-Newtonian fluids on inclined superhydrophobic surfaces Balantrapu Venkata Rama Sai Krishna (VIT-AP University)
9:45 - 9:50 AM	Drop Impact Studies on Banana Leaves Krishnadas Nampootheri (Amrita Vishwa Vidyapeetham Chennai)
9:50 - 9:55 AM	Flow Visualization of Fluidically-Vectoring Jets Saiphaneendra Karuchola (IIT Kanpur)
9:55 - 10:00 AM	Optimizing formation of spheroids inside droplets for microfluidics-based high throughput screening Sachin Thomas (IIT Madras)
10:00 - 10:05 AM	Numerical Simulation of Bingham fluid flowing over a superhydrophobic wall modelled by liquid-air interface slippage Geetanjali Chattopadhyay (MNIT Jaipur)
Contributed talks	
10:05 - 10:20 AM	Reconfigurable Microfluidics Using Multiple Magnetic Microrobots Dineshkumar Loganathan (National Cheng Kung University Taiwan)
10:20 - 10:35 AM	Comparative Experimental Investigation of Spray Characteristics of Boron-Loaded Slurry and Gel Fuels Prabhu Deva P (Alliance University)
10:35 - 11:10 AM	Tea + Poster
Invited talks	
Session 2 Chair: Prof. Neetu Tiwari (IIT Hyderabad)	
11:10 - 11:50 AM	Advanced diagnostics for simultaneous mapping of transport phenomena and interfacial dynamics during droplet impact Prof. Atul Srivastava IIT Bombay
11:50 - 12:30 PM	A multi-directional imaging technique for liquid jet core visualization in airblast injectors Prof. Srikrishna Sahu IIT Madras
Contributed talks	
12:30 - 12:45 PM	Chaos in Stokes Flows enhances stirring Prabhash Kumar (IIT Madras)
Flash Talks	
12:45 - 12:50 PM	Electrothermal flow of non-Newtonian fluid through wavy channel Bijoy Dutta (Banaras Hindu University)
12:50 - 12:55 PM	Optimization of 3D Printed Microfluidic Devices for Organ-on-Chip Applications Devashree Sakharkar (IIT Madras)
12:55 - 1:00 PM	On the Investigation of Near Wake Structures of Heaving and Pitching Elliptical Cross-sectional Wing in Quiescent Fluid Gangadhar Venkata Ramana Pinapatruni (IIT Kanpur)
1:00 - 2:00 PM	Lunch
Invited talks	
Session 3 Chair: Prof. Srikrishna Sahu (IIT Madras)	
2:00 - 2:40 PM	Data assimilation in flow visualization Prof. Neetu Tiwari IIT Hyderabad
2:40 - 3:20 PM	Fluid thermometry using inorganic phosphor tracer particles Dr. Benoit Fond (Online) The French Aerospace Lab ONERA https://us06web.zoom.us/j/8997275771?pwd=jCbOCeqUqjPH8TMDVpLp7oHtom0qBm3.1#success
Flash Talks	
3:20 - 3:25 PM	Influence of elliptical bodies on electro-thermo-hydrodynamics (ETHD) traits and ML prediction of heat transfer Rajeswari Chokkapu (GMR Institute of Technology)
3:25 - 3:30 PM	Numerical Study of Fluidic Thrust Vectoring Accompanied by a Guide Plate and Counterflow Configuration Bhimu Daddimani (NIT Karnataka)
3:30 - 3:35 PM	Visualizing spermatozoa on a tricky trail: A mimic of the female reproductive system Faaiza Ibrahim (IIT Madras)
3:35 - 3:40 PM	Unsteady Electroosmotic Transport of Viscoelastic Fluids Under Pulsed Electric Fields Bhanu Pratap Singh (Banaras Hindu University)
3:40 - 3:45 PM	Background Oriented Schlieren imaging applied to post impact droplet evaporation Partha Dutta (IIT Madras)
3:45 - 4:15PM	Tea + Poster
Session 4 Chair: Prof. Philippe Odier (ENS Lyon)	
4:15 - 4:30 PM	Visualizing Viscous Dissipation in Vertical Planetary Mixer Kuralamuthan Veerapandiyan (IIT Madras)
4:30 - 4:45 PM	Shock-Dominated Flow Features in Supersonic Rectangular Impinging jets Revathy RK (IIT Kanpur)
4:45 - 5:00PM	Flow-field and Acoustic Characterization of an Actively Controlled Mach 0.5 Jet Ambica Singh (IIT Kanpur)
5:00 - 5:15PM	Dynamics of Elongated Taylor Bubbles in non-Newtonian Fluids Manikandan Padmanaban (IIT Madras)
7:00 - 9:00 PM	Conference Dinner

DAY 3 - 15.02.2026 (Sunday)	
Session 1 Chair: Prof. Saptarishi Basu (IISc Bangalore)	
Invited talks	
9:00 - 9:40 AM	The yoga of droplets: coalescence in complex fluids Prof. Alope Kumar <i>IISc Bangalore</i>
Contributed talks	
9:40 - 9:55 AM	Taylor bubble rise through shear-thinning liquids in closed top inclined tubes Priyanka (IIT Kharagpur)
9:55 - 10:10 AM	Pore-Scale Visualization of Multiphase Flow in Enhanced Oil Recovery Using a PDMS Microchannel Nagur Shaik (IIFE)
10:10 - 10:25 AM	Evaluation of agglomerate particle size distribution in aluminized RDX based AP/HTPB composite propellant flames through image analysis Krish Raibole (IIT Hyderabad)
10:25 - 10:40 AM	Data-Driven Prediction of Fuel Spray Dynamics using a Novel Hybrid Machine Learning Technique Vedharaj Sivasankaralingam (NIT Tiruchirappalli)
10:40 - 11:00 AM	Tea + Group Photo
Session 2 Chair: Prof. Alope Kumar (IISc Bangalore)	
Invited talks	
11:00 - 11:40 AM	Adventures of a Droplet: A Multiscale Journey to Extreme Flow Conditions Prof. Saptarishi Basu <i>IISc Bangalore</i>
11:40 - 12:20 PM	Coherent and intermittent structures in transitional boundary layer flows Dr. Sumit Tambe <i>IIT Madras</i>
Contributed talks	
12:20 - 12:50 PM	Panel Discussion
12:50 - 1:20 PM	Closing Ceremony & Prize Distribution
1:30 - 2:30 PM	Lunch