

INTERNATIONAL CONFERENCE ON

Interfacial Phenomena in Droplets

October 5–7, 2026 • Faculty Hall, Indian Institute of Science, Bengaluru

PROGRAM SCHEDULE

DAY 1 • Monday, October 5, 2026

TIME	SESSION	SPEAKER
08:00 – 08:30	Registration	—
08:30 – 09:00	Inauguration	<i>Prof. C. Tropea, S. Basu and A. Sen</i>
09:00 – 10:20	Session Chair	Prof. C. Tropea
09:00 – 09:35	Plenary Lecture Electrohydrodynamics in Additive Manufacturing, Coating and Painting: Experiments and Theory	Prof. Alexander Yarin
09:35 – 10:00	Keynote Lecture Sub-newtonian coalescence in complex fluids	<i>Prof. Aloke Kumar</i>
10:00 – 10:20	Emerging Scholar Lecture Beyond Water Repellency: Thermal Responses of Superhydrophobic Surfaces during Droplet Impingement	<i>Prof. S. Sett</i>
10:20 – 11:10	Coffee Break and Exhibition	—
11:10 – 12:45	Session Chair	Prof. Alexander Yarin
11:10 – 11:35	Keynote Lecture Remaining Obstacles in Designing Spray Cooling Systems	<i>Prof. C. Tropea</i>
11:35 – 12:00	Keynote Lecture Interfacial Thermal Model and Thermography of Laser-Sintered Copper Nanoparticle Films on Silicon Substrates	<i>Prof. Ranganathan Kumar</i>
12:00 – 12:25	Keynote Lecture Breathing and bracing: reticular materials for sensing and liquid-infused surfaces	<i>Prof. Manish Tiwari</i>
12:25 – 12:45	Sponsor Address	<i>Dantec Dynamics – Laser Science</i>
12:45 – 14:10	Lunch	—
14:10 – 15:30	Session Chair	Prof. Ranganathan Kumar
14:10 – 14:30	Emerging Scholar Lecture Dynamics of a chemically active droplet under gravity	<i>Prof. S. Mandal</i>
14:30 – 15:05	Plenary Lecture (online) Fragmentation with, and without mechanism: Are principles enough?	Prof. E. Villermaux
15:05 – 15:30	Keynote Lecture Secondary Atomization: A Shocking Story of Spatio-temporal Scales	<i>Prof. Saptarshi Basu</i>
15:30 – 15:40	Sponsor Address	<i>Orbidot</i>
15:40 – 17:40	High Tea and Poster Session I <i>Posters P1 – P29</i>	—
19:00 onward	Conference Banquet, Comfort Inn <i>with discussions on AI in Multiphase Flow</i>	—

DAY 2 • Tuesday, October 6, 2026

TIME	SESSION	SPEAKER
09:00 – 10:45	Session Chair	Prof. S. Zaleski
09:00 – 09:35	Plenary Lecture Kinematic Closure of Drop Impact on Wetting Surfaces	Prof. Daniel Bonn
09:35 – 10:00	Keynote Lecture From nanoscale nucleation to flash atomisation. A two-temperature Eulerian model and preliminary numerical results.	<i>Prof. M. Marengo</i>
10:00 – 10:25	Keynote Lecture Spray-to-Spray vs. Droplet-to-Droplet Interaction: Are They Really the Same?	<i>Prof. S. Sahu</i>
10:25 – 10:45	Emerging Scholar Lecture Wettability-dependent condensation frosting: thermal signatures and network-based quantification of frost propagation	<i>Prof. P. S. Mahapatra</i>
10:45 – 11:15	Coffee Break and Exhibition	—
11:15 – 12:45	Session Chair	Prof. Daniel Bonn
11:15 – 11:35	Emerging Scholar Lecture Does Leaf Age Matter? From Wettability to Evaporation Dynamics of Water Droplets	<i>Prof. P. Mondal</i>
11:35 – 12:10	Plenary Lecture Recent progress on liquid jet atomization	Prof. S. Zaleski
12:10 – 12:45	Plenary Lecture Turbulence Intermittency Drives Drop and Bubble Breakup	Prof. A. Soldati
12:45 – 14:10	Lunch	—
14:10 – 15:25	Session Chair	Prof. A. Soldati
14:10 – 14:35	Keynote Lecture Droplet impact dynamics on dust-laden inclined surfaces	<i>Prof. R. Ganguly</i>
14:35 – 14:45	Sponsor Address	<i>Orbit Research</i>
14:45 – 14:52	Flash Young Scientist Presentation 6 min talk + 1 min questions	<i>Saini Jatin Rao</i>
14:52 – 14:59	Flash Young Scientist Presentation 6 min talk + 1 min questions	<i>Rutvik Lathia</i>
14:59 – 15:06	Flash Young Scientist Presentation 6 min talk + 1 min questions	<i>Sarath</i>
15:06 – 15:13	Flash Young Scientist Presentation 6 min talk + 1 min questions	<i>Sourav Sarkar</i>
15:15 – 15:30	Sponsor Address	<i>NPTEL</i>
15:30 – 17:30	High Tea and Poster Session II <i>Posters P30 – P58</i>	—
17:30 onward	Round Table Discussion: AI in Multiphase Flow <i>continuing the Day 1 banquet discussion</i>	<i>Panel: Profs. S. Zaleski, A. Soldati, A. Yarin, M. Marengo and S. Basu</i> <i>Moderator: Prof. C. Tropea</i>

DAY 3 • Wednesday, October 7, 2026

TIME	SESSION	SPEAKER
09:00 – 10:45	Session Chair	Prof. D. Vollmer
09:00 – 09:35	Plenary Lecture Wettability, Droplet Friction and Surfaces Slippery to Liquids	Prof. G. McHale
09:35 – 10:00	Keynote Lecture Ultrasound-Controlled Stream Splitting in Microfluidics	<i>Prof. A. Sen</i>
10:00 – 10:25	Keynote Lecture When Is a Supercooled Drop “Large”? Impact, Nucleation, and Dendritic Freezing on Cold Surfaces	<i>Prof. I. Roisman</i>
10:25 – 10:45	Emerging Scholar Lecture Reacting Flows and Liquid Atomisation: Bridging Scales from Droplet Formation to Flow Dynamics	<i>Prof. K. Pandey</i>
10:45 – 11:15	Coffee Break and Exhibition	—
11:15 – 12:50	Session Chair	Prof. I. Roisman
11:15 – 11:40	Keynote Lecture Removal of multiple particles by sliding water drops	<i>Prof. D. Vollmer</i>
11:40 – 12:15	Plenary Lecture (online) Drop impact splashing, the ejecta sheet	Prof. S. Thoroddsen
12:15 – 12:40	Keynote Lecture Physics of Multi-Drop Impacts on Rigid Substrates	<i>Prof. G. Tomar</i>
12:40 – 12:50	Sponsor Address	<i>Elmack Engg Services</i>
12:50 – 14:20	Lunch	—
14:20 – 16:20	Poster Session III <i>Posters P59 – P86</i>	—
16:20 – 17:45	Session Chair	Prof. G. McHale
16:20 – 16:45	Keynote Lecture From the Laboratory Bench to the Crime Scene	<i>Prof. D. Brutin</i>
16:45 – 17:05	Emerging Scholar Lecture From Impact to Instability: Dynamics of Drop Impact on a Suspended Drop	<i>Prof. S. Dash</i>
17:05 – 17:25	Emerging Scholar Lecture Wetting and De-Wetting Control during Phase-Change via Silicone Oil Grafting Functionalisation	<i>Prof. D. Orejon</i>
17:25 – 17:45	Sponsor Address	<i>Springer</i>
17:45 – 18:40	High Tea and Valedictory Felicitation	—