<u>Day 2 September 5, 2025</u> Two-Day Symposium on Advances in Thermo Fluid Sciences IIT Guwahati	
Session 5 :Session Chair Prof. Santanu De, IIT Kanpur	
9:30 AM - 10:00 AM	Keynote Talk 11 : Dr. Naresh Chandra Murmu, CSIR-CMERI Durgapur <i>Title:</i> "Underwater Robotics at CSIR-CMERI: Past, Present and Future"
10:00 AM - 10:30 AM	Keynote Talk 12: Prof. Manas Ranjan Behera, BITS Pilani, Goa Campus <i>Title:</i> "Investigation of coalescence dynamics of a liquid drop at a liquid bath"
10:30 AM - 11:00 AM	Keynote Talk 13: Prof. Tapan K. Mankodi, IIT Guwahati <i>Title: "Accelerating Rarefied Hypersonic Flow Predictions through Machine Learning in Continuum and DSMC Frameworks"</i>
11:00 AM - 11:30 AM	Tea Break
Session 6: Session Chair Prof Debabrata Dasgupta, IIT Delhi	
11:30 AM - 12:00 Noon	Keynote Talk 14 : Prof. Ganesh Natarajan , IIT Palakkad <i>Title:</i> "Revisiting the choice of averaging for spatially varying/discontinuous coefficient problems"
12:00 Noon - 12:30 PM	Keynote Talk 15 : Prof. Ravi Kumar Arun, IIT Jammu <i>Title:</i> "Microfluidic Lab on a Chip Devices for Affordable Healthcare and Energy Applications"
12:30 PM - 1:00 PM	Keynote Talk 16 : Prof. T Sundararajan, IIT Madras <i>Title:</i> "Interface Reconstruction using Higher Order curves for Multi-Phase Flow modeling"
1:00 PM - 2:15 PM	Lunch Break
Session 7: Session Chair Prof. Somnath Roy, IIT Kharagpur	
2:15 PM - 2:45 PM	Keynote Talk 17 : Prof. Stéphane Zaleski, Sorbonne Université, Paris <i>Title:</i> "Direct Numerical Simulation of Mass Transfer at the Slag-Metal Interface"
2:45 PM - 3:15 PM	Keynote Talk 18: Prof. Atul Sharma, IIT Bombay <i>Title: "Physics-Informed and Deep Neural Network-based Computational Methods for Accelerating Time-Periodic Unsteady Multi-Physics CFD Simulations"</i>
3:15 PM - 4:00 PM	Tea Break and Poster Session
Session 8: Session Chair Prof. Shaligram Tiwari, IIT Madras	
4:00 PM - 4:30 PM	Keynote Talk 19: Prof. Gautam Biswas, BITS Pilani Goa Campus <i>Title:</i> "Fairy Tale Stories of Fluid Mechanics"
Session 9: Session Chair Prof. Bahni Ray, IIT Delhi	
4:30 PM - 5:00 PM	A Special Session and Valedictory Function