

ME@75 Oral Presentation Schedule (July 1st, 2022)

Date	Venue	Time	Session Chairs	Category	P-No.	Title
Day 3 - 1st July	Main Hall	9:00AM-10:30AM		Invited Start ME-up Panel Discussion		Panellists (Prof. Santosh Ansumali (Sankhyasutra), CS Murali (SID), Vijay K (Ajax Engineering), Speaker from (Bellatrix), Prof. Prof. Gurumoorthy (IISc))
		10:30AM-11:00AM				Tea break
		11:00AM-11:15AM	Prof. Ratnesh K. Shukla	Fluids	131	Self-assembly driven ripening of nanocrystals - Mona Vishwakarma and Debdeep Bhandary
		11:15AM-11:30AM			134	Doublet jet atomization of nanobubble-water suspensions - Vivek K, Aditya Saurabh and Lipika Kabiraj
		11:30AM-11:45AM			136	Can surfactants be used for drug delivery: A molecular dynamics study - Prateek Chowdhury and Debdeep Bhandary
		11:45AM-12:00PM			137	Flow around single winged spinning samara models - Yogeshwaran G, Srisha Rao M.V and Jagadeesh G
		12:00PM-12:15PM			161	Scaling drag in atmospheric boundary layer using laboratory ideas - Abhishek Gupta, Harish Choudhary, Shivsai Dixit and Thara Prabhakaran
		12:15PM-12:30PM			172	An improved detector function based on wavelet averaging to calculate transitional intermittency - Aditya Anand, Satyajit De and Sourabh Diwan
	Hall A	11:00AM-11:15AM	Prof. Venkata Sonti	Theory of Machines	108	Data-driven design and optimization of hopping behaviour of robotic leg - Pramod Pal, Ashitava Ghosal and Shishir Kolathaya
		11:15AM-11:30AM			114	Predicting the Effect of Ankle Exoskeleton using Musculoskeletal Optimal Control Simulations - G Karthick and Abhishek Gupta
		11:30AM-11:45AM			120	Emergency Braking Controller for the Overhead Cranes - Arup Deka and Sandeep Basireddy
		11:45AM-12:00PM			135	Dynamics of self-sustained rocking in liquid crystal thin films - Divya Jayoti, Akhil Reddy Pekeeti and Ratna Kumar Annabattula
		12:00PM-12:15PM			175	Multi-harmonic wave interactions in nonlinear structural acoustic waveguides - Biswajit Bharat and Venkata Sonti
		12:15PM-12:30PM			139	Design of partially covered bilayer actuators - Akhil Pekeeti, Narasimhan Swaminathan and Ratna Annabattula
	Hall B	11:00AM-11:15AM	Prof. Udit Uday Ghosh	Experimental & Computational Fluid Mechanics	117	Effect of Shock wave boundary layer interaction on liquid jet when injected into supersonic crossflow - Medipati Chandrasekhar, Sivakumar Deivandren and Raghuraman N Govardhan
		11:15AM-11:30AM			127	Direct numerical simulation of coflowing rough and smooth turbulent channel flows - Harish Varma, Karthikeyan Jagadeesan, Vagesh Narasimhamurthy and Amit P Kesarkar
		11:30AM-11:45AM			121	High-order Finite-Volume WENO discretization on unstructured grids - Dipak Vaghani, Sunder Dasika and Ratnesh Shukla
		11:45AM-12:00PM			123	Steady Flow Past a Slotted Circular Cylinder using Power-Law Non Newtonian Fluids - Bishwajit Sharma, Geeta Verma and Rabindra Nath Barman
		12:00PM-12:15PM			122	An Experimental study of flow patterns near moving contact line - Charul Gupta, Lakshmana Dora Chandrala and Harish N. Dixit
		12:15PM-12:30PM			128	Experimental Studies on Fluid Structure Interaction on a flat plate in Hypersonic flows - Kartika Ahuja and Srisha Rao
	Hall C	11:00AM-11:15AM	Prof. Pramod Kumar	Thermodynamics	71	Well-to-Wheels Analysis of Automotive Fuels in Indian Context - Yash Nandola
		11:15AM-11:30AM			112	Droplet growth in turbulent moist convection in a vertical tube - Visakh M G and Jaywant Arakeri
		11:30AM-11:45AM			113	Pressure and temperature evolutions during sloshing in LN2 tank - Nikhil Papetla and Shyama Prasad Das
		11:45AM-12:00PM			48	Prospects of thermochemical energy storage system for heating applications in cold climates - Akshay Chate, Pradip Dutta and Srinivasa Murthy S
		12:00PM-12:15PM			157	Formation of crystal legs on heated hydrophobic surfaces - Pranjal Agrawal, Virkeshwar Kumar and Susmita Dash
		12:15PM-12:30PM			4	Mathematical modelling and development of a cryogenic loop heat pipe with Coherent Porous Silicon (CPS) wick in the flat evaporator - Govind Kumar Mishra, G.S.V.L. Narasimham and R. Karunanithi