



ThermaComp2018

Fifth International Conference on

**COMPUTATIONAL METHODS FOR
THERMAL PROBLEMS**

**JULY
9-11, 2018
BANGALORE,
INDIA**



Fifth International Conference on Computational Methods for Thermal Problems

Monday 9th July, 2018

8:00-9:00	Conference Registration			
8:30-9:00	ThermaComp 2018 Opening			
9:00-9:50	Plenary Lecture 1: Prof. Yogendra Joshi, Georgia Tech, USA Lecture title: Mitigating Hot Spots in 2D and 3D Microsystems Using Liquid Cooling Venue: Main Hall			
9:50-10:10	Coffee Break			
10:10-10:50	Keynote Lecture 1: Prof. Suman Chakraborty, IIT Kharagpur, India Lecture title: Electro-thermally Actuated Micro-flows Venue: Main Hall			
Parallel Sessions 10:55-12:40	Biological Heat and Mass Transfer Venue: Hall A	Conduction, Convection and Radiation Venue: Hall B	Energy Conversion Venue: Hall C	High Performance Computing Venue: Main Hall
10:55-11:10	Mauro Alessandro Numerical Investigation Of Thermo-Fluid Dynamics In Subject-Specific Human Eyes Using The Generalize	Bk Sharath Analytical and Experimental Thermal Behavior of an AC-DC Convertor with Natural Convection	Dash Avinash Design and analysis of scroll expander using Ns-Ds diagram	Chakraborty Arnab Numerical Simulation of Turbulent Flow over a Square Cylinder using Partially Average Navier-Stokes
11:10-11:25	Mohamed Salahuddin A Novel Patient-Oriented Numerical Procedure For Ocular Drainage Devices	Ganatra Ketan Numerical Investigation On Air Slot Jet Impingement Cooling Over A Cylinder	Desai Akshay Optimization Of Fin Volume For Pcm Based Heat Sink	Bhingare Sagar Numerical Analysis And Optimization Of Thermo-Hydraulic Performance In Tube Provided With Thin Wire
11:25-11:40	Coccarelli Alberto Modelling heat transfer for elderly people	Issac Joseph Numerical Study On Slot Jet Impingement Using Openfoam And Ansys Fluent	Rath Prasenjit A Thermal Model for Waste Heat Recovery Using PCM and NEPCM	Chakraborty Arnab Reynolds Average Navier Stokes (Rans) Simulation Of Three Dimentional Unsteady Turbulent Channel Flow
11:40-11:55	Chakraborty Prodyut Performance Evaluation Of Latent Heat Based Cool Pack Configuration For Thermal Comfort: A Numerical	Kaushik Prasad Effect of swirl device on the heat transfer characteristics in a decaying laminar swirling flow through a pipe	Sarkar Subrata Aero-Thermal Analysis Of A Compressor Blade At Low Reynolds Number Through Les	Paghdar Dhaval Large - Eddy Simulation Of Counter Rotating Taylor- Couette Flow At High Reynolds Numbers

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11:55-12:10	Paul Abhijit Paul Investigation Of Nanoparticle Infused Tumor Necrosis Embedding Large Blood Vessels During Hypertherm	Kumar Anuj Numerical study of Inclined Air jet impingement cooling of a cylinder	Velidi Gurunadh Numerical Studies using CFD on Pulsed Detonation Tube with Shchelkin Spiral blockages for different Air-Fuel Mixtures	Dave Himanshu L Genesis and Evolution of Premixed Flames in Turbulence
12:10-12:25	D Arumuga Perumal Numerical Simulation Of Microgap Based Bioimplants For Treatment Of Epilepsy	Singh Chandra Pratap Inverse Design of Thermal Barrier Coatings for IC Engines Applications	Vanoli Laura Exergy performance of a low-tech Photovoltaic/Thermal (PVT) collector with and without thermal insulation	Kalbhor Abhijit Hydrogen Jet Autoignition In A Co-Flow And In A Wake Of Heated Air
12:25-12:40	Kannojiya Vikas Assessment Of Suitability For Hemodynamic Levitated Centrifugal Pump As Left Ventricular Assist Device	Rakshit Dibakar Computational study on orientation based thermal load behavior of a building in composite climatic zone	Roy Dibyendu Thermodynamic analysis of a biomass based solid oxide fuel cell (SOFC) integrated combined heat and power system	Vaka Ananda Novel Inverse Heat Transfer Techniques For Estimation Of Unknown Furnace Mould Heat Flux
12:40-13:40	Lunch			

13:40-14:20	Keynote Lecture 2: Prof. Vinayak Eswaran, IIT Hyderabad, India Lecture title: Challenges in computation of liquid-metal MHD flow and heat transfer under strong magnetic fields in complex geometries Venue: Main Hall			
Parallel Sessions 14:20-16:05	Biological Heat and Mass Transfer; Chemical processes and heat transfer Venue: Hall A	Conduction, Convection and Radiation Venue: Hall B	Energy Conversion and Power Plants and equipment Venue: Hall C	High performance Computing; Numerical Methods Venue: Main Hall
14:20-14:35	M Sakthivel An Axisymmetric Compact Finite Difference Lattice Boltzmann Method For Blood Flow Simulations	Jangale Prajesh Computational Analysis of Solar Humidifier	Garud Kunal Prediction of Thermal Characteristics of DPSAH by Using Artificial Neural Network (ANN) and Validate	Sarkar Subrata Excitation Of A Laminar Separation Bubble And Heat Transfer Characteristics: A Large-Eddy Simulation
14:35-14:50	Khatoon Sufia Effect Of Pulsatility On Blood Flow In A Constricted Channel	Babali Balesh Numerical Investigations Of Conjugate Natural Convection In A Square Cavity Filled With Nano Fluid With Temperature Variations On Horizontal	Sasidharan Sayuj Numerical Analysis of Pressurized Cavity-Air-Receiver in Concentrating Solar Power System	Kumar Rakesh Numerical investigation for convective based transient heat flux measurement with CNT based coaxial

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		Walls		
14:50-15:05	Chen Bin Theoretical Investigation Of Laser Treatment Of Ota's Nevus With External Skin Cooling	Batchu Suresh Investigation for the Improvement of Film Cooling Effectiveness on a High-Pressure Turbine aerofoil	Sodhi Gurpreet Singh Effect of eccentricity on the charging of a multi tube Latent Heat Storage System	Sharma Manish Numerical investigation of the effect of curvature on the flow in an intermediate compressor duct
15:05-15:20	Narasimhan Arunn Effect Of Porous Media On Haemodynamic Performance Of The Fontan Connection	Hansda Samrat Double Diffusive Mixed Convection in a Partially Heated Square Cavity with Various Wall Speed Ratios	Bukke Kiran Naik Novel Approach For Predicting The Performance Of The Evacuated U – Tube Solar Collector Integrated With Parabolic Reflector	Raj Mihir Alternative Mathematical Procedures to Solve Chemical Equilibrium Problem
15:20-15:35	Narasimhan Arunn Porous Medium Modeling Of Gestational Age Dependent Fetal Drug Exposure	Garud Kunal Estimation of Temperature Distribution in Annular Fins of Hyperbolic Profile by Power Series Method	Khivsara Sagar Computational Modeling Of A High Temperature Bladed Solar Receiver With Air As The Heat Transfer Fluid	Mohammed Jesna Numerical Comparison Of Chillover Through Straight And Helical Cryogenic Transfer Lines
15:35-15:50	P S Vishweshwara Computation Of Error Model For The Inverse Bioheat Transfer Problem	Nayak Santosh Kumar Modeling And Optimization Of Controlling Parameters For Nanofluid Based Ultra-Fast-Cooling	Narayanan Vimala Flow Analysis Of Oil Flow In The Gas Turbine Injectors	Normino Gennaro Recovery Of Freezing Probes For The Exploitation Of Geothermal Energy In Urban Environment: A Numerical Analysis
15:50-16:05	Vincent Antony Aroul Raj Tray dryers are most suitable dryers for drying leaves. It is desirable to obtain better air distribution	Mali Mahesh Cfd Study Of Propeller Blade Temperature For Pusher Configured Turbo-Prop Engine	Narayanan Deepak Aerodynamic Behaviour Of A Linear Subsonic Compressor Cascade In A Droplet Laden Flow	Sharan Abhimanyu Combined Effect Of Heat-In-Leak And Longitudinal Wall Conduction On The Performance Of Three Fluid Cross-Flow Heat Exchanger
16:05-16:15	Coffee Break			
Parallel Sessions 16:15-17:45	Chemical processes and heat transfer; Reactive Heat and mass transport Venue: Hall A	Conduction, Convection and Radiation Venue: Hall B	Power Plants and equipment; Refrigeration and Air-Conditioning Venue: Hall C	Numerical Methods Venue: Main Hall

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16:15-16:30	Bhattacharyya Suvanjan Numerical Simulation Of Flow And Heat Transfer Around Elliptical Cylinder With Varying Inlet Turbulence	Garg Kapil Thermal Performance Of Direct Absorption Solar Collector Based Single Stage Flashing Desalination System	Chaudhary Sanuj Study And Thermal Hydraulic Analysis For Steam Generator Feed Water Pipe Break For Kknpp Using Computer Code Relap-5/Mod 3.2	K Raj Arun Prediction of Melting and Solidification Characteristics of Macro-Encapsulated PCM Capsules Using OpenFOAM
16:30-16:45	Chakraborty Debasis Towards modeling of combustion dynamics in solid rocket motors	Kota Santosh Lakshmi Aero Thermal Analysis Of Wing Leading Edge Of Re-Usable Launch Vehicle	Hossain Md Naim Thermal Modeling Of Natural Circulating Riser-Downcomer Circuit For Steam Generation	Kalkote Nikhil Investigation of All-Speed SLAU Scheme in Highly Incompressible Limit
16:45-17:00	Bhattacharya Anirban Effect of laser scan speed on melt pool evolution during selective laser melting	Shende Shreyak Numerical Heat Transfer Analysis Of Spherical And Ellipsoidal Dimple Plates	Duvvuri Pavan Prakash Non-Reactive In-Cylinder Flow Simulation For A Diesel Engine	Gurralla Srinivasa Rao Acoustic Analysis of Reacting Flows in Afterburner
17:00-17:15	Bagchi Sombuddha A Numerical Study Of A Bluff Body Stabilized Diffusion Flame	Mali Mahesh Numerical analysis of Propeller blade Temperature for Pusher Configured Turbo-prop Engine	Jha Vikalp Hvac Analysis Of Hospital And Simulation Of An Airconditioned Room	Kadam Sanjay Numerical Investigation On Thermo-Hydraulic Performance Of Tube With Wire Coil Inserts
17:15-17:30	De Ashoke Investigation of NO in pilot stabilized flames using Eddy Dissipation Concept model	Mehta Sumit Kumar Effect On Non-Uniform Heating On Heat Transfer Characteristics In Wavy Channel	R. Anandalakshmi Numerical Study on Dehumidification Performance of a Cross-Flow Liquid Desiccant Adiabatic Dehumidifier	Kumar Pankaj CFD Simulation of Inertance tube Pulse Tube Refrigerator with variable cross section of regenerator
17:30-17:45	Sarkar Suranjan Cfd Based Combustion Modelling For Mitigating Flame Impingement Issue In A Furnace	Borah Abhijit Effect Of Non-Uniform Heating On Entropy Generation For Thermally Developing Flow Between Parallel Plates	Kumar Vikas 1-D Model For Finding Geometry Of A Single-Phase Ejector	Kumar Sanjeev Numerical Study To Investigate Flow Maldistribution In Minichannel Heat Sink With Modified Inlet/Out

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Tuesday 10th July, 2018

9:00-9:50	Plenary Lecture 2: Prof. G. Biswas, Director IIT, Guwahati, INDIA Lecture title: TBA Venue: Main Hall			
9:50-10:20	Coffee Break			
10:20-11:00	Keynote Lecture 3: Prof. Steve Brown, Swansea University, UK Lecture title: Modelling Heat Transfer in Powder Bed Additive Manufacturing Venue: Main Hall			
Parallel Sessions 11:00-12:45	Heat and mass transfer in porous media; Reactive heat and mass transport Venue: Hall A	Conduction, Convection and Radiation Venue: Hall B	Coupled Problems Venue: Hall C	Numerical Methods Venue: Main Hall
11:00-11:15	De Ashoke Hybrid Rans/Pdf Simulations Of The Adelaide Jet-In-Hot-Coflow Burner Using 3d Fgm Tabulated Chemistry	D Arumuga Perumal Experimental And Numerical Investigation On Conjugate Effects In Deep Parallel Microchannel Using Tio2 Nanofluid For Electronic Cooling	Bhargav Atul Data Center Rack Analysis Using Detached Eddy Simulations	Krishnatreya Dravida Design and CFD Analysis to Visualize the Flow Pattern Inside Air Turbine: A Component of Turbo-expander
11:15-11:30	Bhide Kedar Assessment Of Premixed Cmc Model Using Direct Numerical Simulation	Garg Ankur New Approach in Spherical Discretization to Solve Radiative Transfer Equation by Finite Volume Method	Das Prosenjit Multi-Phase Model Of Semi Solid Slurry Generation During Cooling Slope Processing Of Melt Treated Al	Kumar Manoj Kumar Design and numerical analysis of fluid flow characteristics in a non-axisymmetric convergent nozzle
11:30-11:45	Goud B. Shankar Implicit Finite Difference Method For Mhd Flow Of A Micropolar Fluid Past A Stretching Sheet With Heat Transfer	Polasanapalli Sai Ravi Gupta Simulation Of Turbulent Natural Convection In Annular Cavity Using A High-Order Compact Finite-Difference	Poredos Andrej Heat transfer analysis for GDI development	Chakraborty Saurav Energy Optimization Of A Pusher-Type Reheating Furnace With Coal Burners Using Numerical Model
11:45-12:00	Di Fraia Simona Modelling Electro-Osmotic Flow Through Porous Media	Ukamanal Manoj Modeling And Simulation For Thermal Management Of Hot Surfaces Based On State Space Method	Dalvi Shubham Conjugate Heat Transfer Analysis Of A Radial Heat Sink Using Open Foam	Mandal Jadav Chandra A strategy to cure numerical shock instabilities in HLLEM Riemann solver

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12:00-12:15	Fernandes Ignatius Mesoscopic Simulation Of Non-Newtonian Natural Convection In A Stenotic Artery	Katti Amogh S Numerical Analysis of Mixed Convection in a Lid-Driven Cavity with Cu-water nanofluid using Artificial Compressibility Method	Kumawat Jaiprakash Modelling Of Solidification Of Water Droplet Impact On A Substrate With Undercooling Effect	Mandal Jadav Chandra A low dissipation Roe scheme for incompressible flow computations
12:15-12:30	Chordiya Jayesh Natural Convection In Square Porous Enclosure With Diathermal Partition Wall	Sainas Domenico Numerical and Experimental analysis of a real Operating Theater with LAF system	Rath Prasenjit Study of Combined Effect of Thermal Anisotropy and Forced Convection on the Growth of an Equiaxed Dendritic Crystal	Pawar Shashikant Effect of Surface Motion on Conjugate Heat Transfer Study of Plane Turbulent Jet Impinging over a Flat plate
12:30-12:45	Devani Yogendrasasidhar Studies On Heat And Mass Transfer For Geldart B Particles Using Batch Fluidized Bed Dryer	Ghosh Suman 2d Conduction Through Homogeneous Bulk With Hairline Crack: Inspection Of Crack In Homogeneous Bulk	Gohil Trushar Numerical Analysis of Fluid Flow and Heat Transfer Through Multistep Channel Under the Influence of Magnetic Field	Bhattacharya Anirban Modelling of microstructure evolution with shrinkage convection
12:45-13:45	Lunch			
13:45-16:05	Keynote Lecture 4: Prof. Yogesh Jaluria, Lecture title: Solution Of Inverse Problems For Thermal Processes And Systems Venue: Main Hall			
14:25-14:40	Karagadde Shyamprasad A Modified Mushy Zone Permeability Model For Predicting Macrosegregation	Mishra Ashish Computational Modelling Of Thermal And Fluid Flow Phenomena During Slm Of Az91d Alloy Powder Using Volumetric Heat Source	Chakraborty Prodyut Numerical Analysis Of Latent Heat Thermal Energy Storage (Lhtes) Performance: A 2-D Axisymmetric Approach	Kumar Sudarshan Investigation of Heat Distribution and Thermal Stress Distribution of Piston
14:40-14:55	Sathe Tushar Thermal Management Of Photovoltaic System Using Porous Media	Rathore Sushil Kumar Computational Investigation Of Mixed Convection Heat Transfer From Laminar Offset Jet And Wall Jet	Saiyad Anashusen Data Center Rack Analysis Using Detached Eddy Simulations	Radhamony Leena Numerical Studies Of Multiple Square Jet Array Impinging On A Flat Plate
14:55-15:05	Raju Nithin Narmada Determination of Absorption Conditions for LaNi _{4.7} Al _{0.3} Based Hydrogen Storage Device: A Numerical Investigation	Sharma Shubham Numerical investigation of natural convection heat transfer from a heated horizontal cylinder in cop	Khandekar Sameer Effect of stratification and natural circulation on steam condensation in presence of non-condensable gases	Abdullah Shekh Flow Passage Design for Thermal management of Li-ion battery

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15:05-15:20	Shah Shail Steady State Mathematical Modelling And Parametric Study Of Loop Heat Pipe For Space Application	Sarkar Subrata Film Cooling Enhancement By Introduction Of Mist On A Flat Plate	Soni Vikram Sinking Of Bulk Solid Phase Change Material Due To Close-Contact Melting With Multi-Nanoparticles	Murmu Sudhir Convective Heat Transfer Around A Trapezoidal Cylinder At Varying Inlet Turbulent Intensity
15:20-15:35	Kashyap Dhrubajyoti Lattice Boltzmann Computation Of Natural Convection In A Square Porous Cavity With Different Thermal	Ray Atul Kumar Natural Convection Of Carreau Nanofluid Flow From Vertical Flat Plate With Periodic Variation	Phalke Vikram Analyses Of Thermal Stresses And Strains In Yttria-Stabilized Zirconia (Ysz) Thermal Barrier Coating	Thakkar Nihar Level Set Method based study on Solidification during Casting: Effect of Advection and Filling Process
15:35-15:50	Banjara Kotresha Prediction Of Heat Transfer With Discrete Heat Sources In A Vertical Channel Filled With High Porosity	KANE ANIRUDDHA Thermal characterization of shock-induced separation in hypersonic flows	Gaurav Kumar Thermal Tracking Of Ablation Behaviour In Vver Core Catcher	Kumar Mukesh A Comparison Between Monolithic And Partitioned Approach For Conjugate Heat Transfer In An Immersed
15:50-16:05	Rashid Khalid Experimental Investigation Of Forced Convection Heat Transfer In Metal Foam-Filled Horizontal Rectants	Singh Chandra Pratap Inverse Design of Thermal Barrier Coatings for IC Engines Applications	Kumar Arvind Modelling Air Entrapment Dyanamics During Impact Of A High-Speed Metal Droplet Onto A Solid Substrate	Thawrani Yogesh Numerical Investigation of Bi-CGSTAB solver with ILU(p) Preconditioner
16:05-16:15	COFFEE BREAK			
Parallel Sessions 16:15-17:45	Heat and mass transfer in porous media; Heat exchangers and fuel cells Venue: Hall A	Conduction, Convection and Radiation; Refrigeration and Air-Conditioning Venue: Hall B	Refrigeration and air conditioning; Boiling and Condensation Venue: Hall C	Numerical Methods Venue: MH
16:15-16:30	Fushinobu Kazuyoshi Oxygen Transport Prediction In The Electrolyte Membrane Of Pemfc By Using Molecular Dynamics Simulation	Dalal Amaresh Modeling Of Thermal Management In Automotive Battery Modules	Singh Bhajneet Vortex Tube Based Expansion Device For Vapour Compression Refrigeration System	Verma Neeraj Numerical Analysis of flow over an Airfoil at low Reynolds number using γ -Re θ model
16:30-16:45	Gandluru Sreedevi Convective Heat Transfer Of A Nanofluid Over A Stretching Sheet With Variable Viscosity And Hall Eff	Devaraj Deepa D Influence of Nano-Silicon Carbide and Alumina Reinforced Aluminum Fins for Natural Convective Heat Transfer	Soudagar Shujaathussian Optimisation Of Ventilation System By Active Displacement Ventilation Using Cfd	Nakate Prasheel Asymptotic Approach To Obtain Nusselt Number Correlation For Laminar Mixed Convection In A Vertical

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16:45-17:00	<p align="center">Somanchi Krishna Murthy VSSNMG Numerical study of entropy generation in a doubly stratified fluid saturated Darcy porous enclosure</p>	<p align="center">Singh Chandra Pratap Inverse Design of Thermal Barrier Coatings for IC Engines Applications</p>	<p align="center">Velidi Gurunadh Heating Ventilation and Air-Conditioning Analysis of a Hospital and Simulation of an Air-conditioned room</p>	<p align="center">Ghosh Moulic Sandipan An Efficient Algorithm for Stability Analysis of Time-Periodic Flows</p>
17:00-17:15	<p align="center">Rajagopal Deepakkumar Effect Of Control Plates On The Flow And Convective Heat Transfer Characteristics Of Flow Past A Circular Cylinder</p>	<p align="center">Banerjee Ayan Kumar Experimental Study Of Rotating Convection In A Novel Configuration</p>		<p align="center">Singh Rituraj A New Interpolating MIs In Mlpg Method For Heat Conduction Problem</p>
17:15-17:30	<p align="center">Mangrulkar Chidanand Thermal Performance Intensification Of Cam Shaped Tubes In Staggered Layout</p>	<p align="center">R Yuvaraj Finite Element Analysis Of Thermal Wave Propagation In Thin Layers</p>		<p align="center">Chattopadhyay Anirban A fourth order compact ADI scheme for N-S equations on non-uniform grids.</p>
17:30-17:45	<p align="center">Sonawane Chandrakant Numerical Simulation Of Flow Through Helical Heat Exchanger</p>	<p align="center">Sarkar Sandip Numerical Analysis Of Electrode Cooling In A Steelmaking Ladle Furnace</p>		

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Wednesday 11th July, 2018

9:00-9:50	Plenary Lecture 3: Prof. Paul G. Tucker, University of Cambridge, UK Lecture title: Predictive aerothermal modelling in aeronautics Venue: Main Hall			
9:50-10:20	Coffee Break			
10:20-11:00	Keynote Lecture 5: Prof. John Chai, University of Huddersfield, UK Lecture title: Level-Set Method for Multiphase Flows Venue: Main Hall			
Parallel Sessions 11:00-12:45	Heat exchanger and fuel cells; Micro-and-nano heat transport Venue: Hall A	Conduction, Convection and Radiation Venue: Hall B	Conduction, convection and radiation; Numerical Methods; High Performance Computing Venue: Hall C	Coupled Problems Venue: Main Hall
11:00-11:15	Gugulothu Ravi Numerical Investigation on Heat Transfer of Helical Baffles Shell and Tube Heat Exchanger	M Vishnu Numerical Simulation Of Double Forward-Facing Step With Obstacles Of Different Aspect Ratio	Kumar Sanjeev Numerical Study To Investigate Flow Maldistribution In Minichannel Heat Sink With Modified Inlet/Out	Khandekar Sameer Heat Transfer Augmentation In Ferrofluids In Presence Of External Magnetic Fields
11:15-11:30	Chodankar Vishnudas Alias Vipul Effect of Pressure loss on the thermal performance of a three-fluid heat exchanger, for cryogenic application	Aggarwal Akash Numerical Modelling Of Heat Transfer During Multi-Layer Laser Metal Deposition Process	Gupta Sumit Numerical Study Of Magnetohydrodynamic Three Dimensional Flows And Heat Transfer Of Oldroyd-B Nanofluid Over A Bidirectional Stretching Surface	Khandekar Sameer Numerical investigation of heat transfer augmentation using rectangular winglet type vortex generators
11:30-11:45	Ramisetty Bala Sundar Rao Heat Transfer And Pressure Drop Correlations Of Rectangular Perforated Fin Surface Of A Compact Heat Exchanger	Salvi Swapnil Numerical Modelling Of Thermal Energy Storage Using Phase Change Materials: Energy Efficient Building	Garg Hemanshul A Sharp-Interface Immersed Boundary based Solver for Conjugate Heat Transfer with Moving Boundary	Vishwakarma Antriksha Electrothermally Actuated Non-Newtonian Binary Fluid Flow Through Microchannel
11:45-12:00	Sarangi Radha Kanta Modeling of Boiling Heat Transfer in Microchannel for Nonuniform Heat Input	Ghulam Gilani Effect of variable thermal conductivity on heat transfer characteristics of a nuclear fuel	Mohammad Anas Finite Difference Approach For Thermal Convection And Dynamo Problem In A Rotating Spherical	Karagadde Shyamprasad Cfd Analysis And Optimization Of The Ultrasonic Treatment Of Mg Alloy Melt

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		element	Shell	
12:00-12:15	Kumar Sumit Wettability Modulated Evaporation Dynamics Of Sessile Liquid Droplets		Patel Rushabh Comparison Of Various Thermophysical Property Models Of Water- Al ₂ O ₃ Nanofluids	Singh Punit Coupled Fluid Flow, Heat And Mass Transfer Modelling During Convective Drying Of Potato
12:15-12:30	Kaushik Prasad Heat transfer characteristics of a viscoelastic fluid squeezed and extruded between two parallel plates		Karmakar Hemanta Biharmonic Approach for Solving Navier-Stokes Equations on Nonuniform Grids.	Singh Ankit Thermo-Structural Analysis Of Two-Channel Simultaneous Deformation In I-Phwr Under Heatup
12:30-12:45	Goswami Krishno Das Mixed convection in a nanofluid filled double lid driven porous enclosure with discrete heat sources		Madireddi Sowjanya Heat Transfer In The Cooling Wheel During Planar Flow Melt Spinning Process	Chinnappan Arunkumar Study On The Effects Of Particle Shape In Free Molecular Regime
12:45-13:45	LUNCH			

13:45-14:25	Keynote Lecture 6: Prof. Oronzio Manca, Seconda Università di Napoli, Italy Venue: Main Hall Lecture Title: TBA			
Parallel Sessions 14:25-16:20	Micro-and-nano heat transport Venue: Hall A	Micro and nano heat transport; Coupled Problems Venue: Hall B	Numerical Methods Venue: Hall C	Micro-and-Nano Heat Transport Venue: Main Hall
14:25-14:40	Singh Swati Simulation of Conjugate Heat Transfer from a Continuously Moving Horizontal Plate to Nanofluid	Peetala Ravi Thermal And Velocity Boundary Layer Studies In Hypersonic Flow Over A Finite Thickness Of Flat Plate	Mandal Jadav Chandra A Contact Capturing Finite Volume Method For Incompressible Two- Phase Flows	Arora Ashish COOLING PERFORMANCE ANALYSIS OF LOOP HEAT PIPE USING NANOFLUID
14:40-14:55	Ghoshdastidar Partha Sarathi A Numerical Investigation of Heat Transfer Enhancement in Nanofluids Flow in a Parallel Plate Channel	Yevdokymov Dmytro Generalized Onsager's Equation System as mathematical Model of Heat and Mass Transfer in Microgravity	Madhavan Jithin Multiple Time Scale Approach For High Prandtl Numbers In Lattice Boltzmann Method	Jadhav Ravi Pressure-driven Plane Poiseuille Flow by Onsager-Burnett Equations

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14:55-15:10	Gaikwad Vinayak Enhancement in thermal performance of microchannel heat sink for electronics cooling using phase channel	Rajegowda Rakesh Molecular Dynamics Simulations For Estimating Surface Tension Of Ionic Liquid Nano-Drops	Kumar Nitin A Numerical Framework For Linear Stability Analysis Of Two-Dimensional Steady Flows	Saha Sandip K Numerical analysis of heat transfer enhancement in microchannel with bioinspired surface
15:10-15:25	Kammarra Kishore Study of Atomic Interactions in the Oxidation of Silicon Carbide using Molecular Dynamics Simulation	Moharana Manoj Kumar Numerical Study Of Fluid Flow And Heat Transfer In Compound Microchannel	G Prasad Numerical Investigation Of Boundary Layer Effect In A Flow Through A Circular Pipe	Babu Jeetu Molecular Dynamics Study Of Fluid Solid Interfacial Slip And Its Effect On Heat Transfer
15:25-15:50	Gaikwad Vinayak Numerical Analysis Of Thermal Performance In Pin-Fin Enhanced Microchannel Heat Sink	Mohan Hari Heat Transfer Of Gaseous Flow Through Microannulus In Slip Regime	Patil Dhiraj Double Distribution Functions Mrt-Lattice Boltzmann Scheme For Thermal Benchmark Flows	
15:50-16:05	Croce Giulio Porous Media Modeling Of Compressible Flow In Micro Heat Exchangers	Gavasane Abhimanyu Study Of Heat Transfer In Microchannels Using Direct Simulation Monte Carlo Method	Singh Rituraj A New Interpolating MIs In Mlpg Method For Heat Conduction Problem	
16:05-16:20	Nonino Carlo Wall Heat Conduction Effects On The Conjugate Laminar Forced Convection In Circular Microchannels		Debnath Suman Numerical Investigation On Effect Of Geometrical Configuration Of Absorber Plate On Heat Transfer Enhancement	
16:20-16:30	Closure and Coffee			