INTERNATIONAL CONFERENCE ON FLUID AND THERMAL ENGINEERING

(ICFTE 2026)
19TH – 21ST JANUARY 2026
ORGANISED BY:

DEPARTMENT OF MECHANICAL ENGINEERING, BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE PILANI, PILANI CAMPUS, RAJASTHAN, INDIA

FINAL SCHEDULE

DATE: 19.01.2026 – DAY 01

REGISTRATION	
Time: 8:30 A.M. – 9:30 A.M.	JC CHAUDHRY NAB AUDITORIUM

INAUGURAL CEREMONY	
Time: 9:30 A.M. – 10:15 A.M.	JC CHAUDHRY NAB AUDITORIUM

HIGH-TEA BREAK AND PHOTOGRAPH
Time: 10:15 A.M. – 10.45 A.M.

PLENARY TALK	
Time: 10:45 A.M. – 11:30 A.M.	JC CHAUDHRY NAB AUDITORIUM
Plenary Speaker: Prof. Gautam Biswas, BITS Pilani, Goa Campus, India.	
Session Chair: Prof. Himadri Chattopadhyay, Jadavpur University, India.	

KEYNOTE SESSION
Time: 11:30 A.M – 12:00 P.M
KEYNOTE 01: JC CHAUDHRY NAB AUDITORIUM Prof. Bahni Ray, Indian Institute of Technology Delhi, Delhi, India. Session Chair: Prof. Raj Kumar Gupta, BITS Pilani, Pilani Campus, India.
KEYNOTE 02: ROOM 6105 Prof. Manabendra Pathak, IIT Patna, Bihar, India. Session Chair: Prof. Srikanta Routroy, BITS Pilani, Pilani, India.
KEYNOTE 03: ROOM 6102 Prof. Himadri Chattopadhyay, Jadavpur University, Kolkata, India. Session Chair: Prof. Gaurav Watts, BITS Pilani, Pilani, India.

PARALLEL SESSION 01		
NAB Auditorium		
Track: Advanced Topics in Aerodynamics and Engine Propulsion		
Session Chair: Prof. Bahni Ray, IIT Delhi, Delhi, India		
PAPER PRESENTATIONS		Time: 12:00 P.M. – 1:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-015	Satvik Sandeep Sarode and Manabendra Manindrakumar De	Numerical investigation of camber morphing aerodynamics for Unmanned Aerial Vehicle application
ICFTE-024	Nishant Mahamuni, Pramath Bhat, Sathyabhama A and Ramakrishna N Hegde	Numerical analysis of a variable pitch vertical axis wind turbine
ICFTE-056	Perumalla Devi Vijaya Kumar, Shaligram Tiwari	Numerical study on flow characterization and performance optimization of Savonius turbine in a confined channel
ICFTE-070	Rishab Maurya, Pranay Katke	Investigating the Aerodynamic Effects of Leading-Edge Tubercles in Supersonic Flow: A CFD Based Parametric Study
ICFTE-115	Navneet Manoj, Anwesha Mishra, Pardha S. Gurugubelli	Airfoil Shape Optimization using Genetic Algorithm
ICFTE-206	Ankitha Gupta Surisetty, Navya Vijay and Shashank Khurana	Bio-inspired leading-edge tubercles for sports applications: a comprehensive review

PARALLEL SESSION 02		
ROOM 6105		
Track: Design and Optimization of Thermal and Mass Transfer Systems		
Session Chair: Prof. Aneesh A. M., BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 12:00 P.M. – 1:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-068	Ashok Kumar and N. Gnanasekaran	Comparison between different lattice structures for compact heat exchangers for heat recovery from engine exhaust
ICFTE-073	Prosenjit Singha, Kavan Utpal Lad, Mani Sankar Dasgupta	Performance Enhancement of R290-Based Cold Storage Systems Using Advanced Subcooling Techniques
ICFTE-111	Parv Goyal and Manoj Kumar Soni	Thermodynamic Analysis of a Compression-Absorption Cascade Refrigeration Cycle with Propane, n-Butane, and CO2
ICFTE-161	Mrinal Pradhan, Koushik Das, Rajat Subhra Das	CFD-based multiphase flow analysis of a modified liquid desiccant regenerator with corrugated surface and baffles

PARALLEL SESSION 03		
ROOM 6102		
Track: Computational Approaches to Fluid Flow and Thermal Analysis		
Session Chair: Prof. Celestino Rodrigues Ruivo, University of Algarve, Portugal		
PAPER PRESENTATIONS		Time: 12:00 P.M. – 1:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-002	Khemraj Deshmukh, Gaurav Singh	Pulsatile hemodynamics in healthy and diseased coronary arteries: a cfd study
ICFTE-005	Ram Krishna Shah	Influence of Magnetic Field on the Impingement Dynamics of Ferrofluid Droplets on Heated Hydrophobic Surfaces
ICFTE-009	Amish Samaiya, Chandra Tivrakrishna Panday, Somenath Gorai, Devendra Kumar Vishwakarma	Numerical Analysis of Fe_3O_4–H_2O Nanofluid-Based Cold Plate for Enhanced Thermal Management under High Heat Flux Conditions
ICFTE-011	Abhik Adhikari, Prasun Dutta, Himadri Chattopadhyay	Computational Analysis of Turbulent Transport and Heat Transfer from Impinging Annular Jets over a Moving Surface at Higher Reynolds Number
ICFTE-013	Somenath Gorai	Numerical study of heat transfer and pressure drop in the developing regime of lamianr mixed convection flows
ICFTE-019	Devendra Kumar Vishwakarma and Suvanjan Bhattacharyya	Fluid flow and heat transfer of an impinging sweeping jet in enhanced surface fluidic oscillator

LUNCH BREAK	
Time: 1:30 P.M. – 2:30 P.M.	**INSTITUTE CANTEEN**

ONLINE KEYNOTE TALK	
Time: 2:30 P.M – 3:00 P.M.	**NAB Auditorium**
Prof. Mohammad Moghimi Ardekani, University of Staffordshire, UK. Session Chair: Prof. Tufan C Bera, BITS Pilani, Pilani, India.	

KEYNOTE SESSION
Time: 03:00 P.M – 03:30 P.M
KEYNOTE 04: NAB Auditorium Prof. Amaresh Dalal, IIT Guwahati, India. Session Chair: Prof. Jitendra S Rathore, BITS Pilani, Pilani, India.
KEYNOTE 05: ROOM 6105 Prof. Sudeshna Mukherjee, BITS Pilani, Pilani, India. Session Chair: Prof. M. S. Dasgupta, BITS Pilani, Pilani, India.
KEYNOTE 06: ROOM 6102 Prof. Pradyumna Ghosh, Indian Institute of Technology, BHU Session Chair: Prof. Yogesh Singh, BITS Pilani, Pilani, India.

TEA BREAK AND POSTER PRESENTATION		
Time: 3:30 P.M. – 4:00 P.M.		
		NAB AUDITORIM
Paper ID	**Author(s)**	**Title**
ICFTE-077	Manisha, Surjo Das, Abhisekh Tandey, Andrea Vallati, Suvanjan Bhattacharyya	Synergistic Effect of Surface Micromachining and Fe_3O_4 Nanoparticle Concentration on Pool Boiling Heat Transfer Characteristics
ICFTE-086	Naveen Kumar Sain, Mani Sankar Dasgupta, Suvanjan Bhattacharyya, Kundrapu Ayyappa Swamy	Thermo-Elastohydrodynamic Analysis and Optimization of Hydraulic Seal Geometry for Zero Leakage Performance
ICFTE-178	Ashish Kumar Saini, Suvanjan Bhattacharyya	Enhanced Convective Cooling of Lithium-Ion Batteries Using Dimpled Fins: An Experimental Approach
ICFTE-072	Luke Solomons, Tunde Bello-Ochende, Suvanjan Bhattacharyya	Design and Development of Solar Still with various modifications, application to South African Weather Systems
ICFTE-230	Kavya S, Abhinav Kamath, Srikanta Routroy, Suvanjan Bhattacharyya	Powering Healthcare with Green Hydrogen: A Solar–Wind Hybrid Pathway for Rural Hospitals in Jaisalmer
ICFTE-179	Nancy Maurya, Neerav Krishna, Suvanjan Bhattacharyya	Investigation of circular minichannel-based thermal management for electric vehicle batteries
ICFTE-185	Sumit Khatri, Tunde Bello-Ochande, Suvanjan Bhattacharyya	Experimental and numerical characterisation of transitional heat transfer in smooth tubes with twisted tape inserts under constant heat flux
ICFTE-187	Neeraj Kumar Sharma, Chennu Ranganayakulu, Suvanjan Bhattacharyya	Simulation and Thermodynamic Analysis of a Coupled Air Compression–Vapor Compression Refrigeration System Using Eco-Friendly Refrigerant R1234yf Without Air Heater Conditions in EcosimPro/PROOSIS

PARALLEL SESSION 01		
NAB Auditorium		
Track: Transport Processes in Biological and Biomedical Systems		
Session Chair: Prof. Syamantak Majumder, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 4:00 P.M. – 05:45 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-006	Khushi Rele and Tadahiko Shinshi (Professor)	CFD Analysis of Dynamic Pressure-Induced Stiffness in a Pediatric Magnetically Levitated Ventricular Assist Device
ICFTE-012	Abhijit Dutta, Subhajit Banerjee, Sudhir Chandra Murmu and Himadri Chattopadhyay	Effect of rbc on the thermal transport in capillary blood flow in respiratory system
ICFTE-058	Vinita Goyal, Kushal Sharma	Rheological Modelling & Comparative Analysis of Viscoelastic Fluid Models in Membrane Driven Micropumps
ICFTE-085	Priyanshu Soni, Vedant Wanjari, Abhra Bhttacharyya, Sanjay Kumar Rai and B V Rasthish kumar	Computational Investigation of Post-Stent Remodelling and Hybrid Biodegradable Stent Innovation
ICFTE-130	Savnav Huda, Deepanjan Das, Ranjit Barua, Nirmalendu Biswas and and Suvanjan Bhattacharyya	Hydrodynamics of droplet inside a trifurcated microchannel under pressure driven flow
ICFTE-138	Pratik Roy, Ranjan Ganguly and Nirmalendu Biswas	Comparative analysis of biological tissue heat transfer dynamics in magnetic fluid hyperthermia
ICFTE-166	Aditya Kumar, Sayan Karmakar and Supratim Saha	Dynamics of guidewire-driven flow alteration in coronary arteries

PARALLEL SESSION 02		
ROOM 6105		
Track: Energy Conversion Devices and Integrated Systems		
Session Chair: Prof. Amaresh Dalal, IIT Guwahati, India.		
PAPER PRESENTATIONS		Time: 4:00 P.M. – 05:45 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-041	Venkatesh T Lamani	A parametric Study of a Waste Heat Recovery System for Power Conditioning using Thermoelectric Generator
ICFTE-059	Prarthana Deshpande	Electrostatic Discharge Sheet using Biodegradable Polyvinyl Alcohol/ Carbon Black Composite
ICFTE-088	Ashish Babarao Khelkar, Rajat Subhra Das, Ganesh Sahadeo Meshram, Gloria Biswal	Numerical assessment of heat transfer and flow dynamics in nanofluid enhanced wavy ducted pin-finned solar air heater
ICFTE-091	Alfred Francis J, Surya M	CFD Analysis of a Cylindrical Lithium-Ion Battery with Spiral Fins

ICFTE-092	Surya M, Alfred Francis J	Numerical Investigation of Battery Thermal Management with PCM and Nano-Additives
ICFTE-094	Surekha Jayasurya, Vinay Pramod Hoshing and Prasanth Anand Kumar Lam	CFD Analysis of Thermal Performance of a 9s2p Lithium-Ion Battery Pack Using Phase Change Material (PCM) Cooling
ICFTE-096	Vishal Kumar Bhaskar, Ashish B. Khelkar, Sachitananda Mishra, Rajat Subhra Das	Role of nanoparticle in improving heat transfer performance of air-based solar thermal collector equipped with vortex generators

PARALLEL SESSION 03

ROOM 6102

Track: AI and Machine Learning Applications in Heat and Fluid Flow

Session Chair: Prof. Mithun Das, Jadavpur University, Kolkata, India.

PAPER PRESENTATIONS Time: 4:00 P.M. – 05:45 P.M.

Paper ID	Author(s)	Title
ICFTE-028	D. Krishnan, and P. Durgaprasad	Coupled Numerical and ANN-Based Framework for Entropy Analysis in MHD Flow of Hybrid Nanofluids Through Porous Media
ICFTE-029	M. Bhuvana and P. Durgaprasad	Artificial Neural Network Analysis of Entropy Generation in Eyring-Powell Ternary Hybrid Nanofluid over a Magnetised Porous Vertical Cone
ICFTE-119	Shivesh Dwivedi, Suvanjan Bhattarcharyya, Arun Kumar Choudhary	Reconstruction and Validation of a Data-Driven Operational Framework for Hydrogen-Integrated Distribution Networks
ICFTE-147	SVH Nagendra, DVS Bhagavnulu	Numerical and data driven investigation of fluid flow past a bluff body
ICFTE-192	Shubham Das, Sandip Sarkar, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna	Curriculum-Driven Graph U-Net Framework for MHD Nanofluid Convection in Complex Enclosures
ICFTE-195	Ayush Ganguly, Sandip Sarkar, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna	Physics-Informed Neural Networks (PINNs) for Data-Efficient Reconstruction of Thermofluid Flow Fields in Classical Cavity Systems
ICFTE-203	Kunwar Chandra Singh	Mathematical modeling of rolling contact bearings under different stages of lubrication

CONFERENCE GALA DINNER

Time: 8:00 P.M. onwards **Venue: Pooja Ground**

DATE: 20.01.2026 – DAY 02

PARALLEL SESSION 01		
NAB Auditorium		
Track: Heat and Mass Transfer in Porous Structures and Materials		
Session Chair: Prof. Nirmalendu, Jadavpur University, Kolkata, India.		
PAPER PRESENTATIONS		Time: 9:00 A.M. – 10:30 A.M.
Paper ID	**Author(s)**	**Title**
ICFTE-042	Manoj, Manoranjan Mishra, Navaneeth KM	Numerical study of mixing in miscible flows through porous media
ICFTE-054	Samarth Pasilkar	Extraction of Carpaine from Carica Papaya Leaves and its Pharmacological Insights: A Comprehensive Review
ICFTE-055	Sohail Ansari, Prarthana Deshpande	Development of Sustainable High-Performance 3D Printed Polymer Composites and Functional Membranes for Wastewater Treatment Applications
ICFTE-063	Harshwardhan Patil	Waste Tyre Pyrolysis Char: Activation Methods, Structural Features, and Applications- A Review
ICFTE-090	Ram Kunwer, Dinesh Kumar, Gaurav Kumar Singh, Swapnil Sureshchandra Bhurat	Characteristics analysis of spherical sensible thermal energy storage systems for solar energy applications
ICFTE-173	Ravi Kant Rajak	FEM analysis of back face deformation on the bulletproof vest

PARALLEL SESSION 02		
ROOM 6105		
Track: Experimental Investigations in Heat and Mass Transfer		
Session Chair: Dr. Devendra kumar Vishwakarma, Manipal University, Jaipur, India.		
PAPER PRESENTATIONS		Time: 9:00 A.M. – 10:30 A.M.
Paper ID	**Author(s)**	**Title**
ICFTE-176	Ashish Kumar Saini	Experimental Study on the Effectiveness of Wavy Fins for Air-Cooled Lithium-Ion Battery Thermal Management
ICFTE-201	Shivasheesh Kaushik	Effect of diverse inserts and nano fluid on thermal performance of concentric tube heat exchanger having spiral tube
ICFTE-211	Akshay S Bhat, Dr.G B Krishnappa, Dr.Srinivasan Kasthurirengan, Dr.Govinda Rao Yenni	Experimental Investigation of Thermal Conductivity in Solid Materials Using Transient Plane Source Method
ICFTE-004	Asish Tripathy, Sayantan Sinha Biswas, Himadri Chattopadhyay and Nilkanta Barman	A comparative study on pulse laser joining using different combinations of al- and mg-alloys
ICFTE-026	Ch.S.S.S.Avinash	Studies on Response Delay for Thermocouple Mounted Thermowell in Non-Isothermal Sodium Flow
ICFTE-078	Suvanjan Bhattacharyya	Laminar Flow Heat Transfer through a Circular Tube Using Axial Corrugation and Twisted Tapes with and without Oblique Teeth

PARALLEL SESSION 03		
ROOM 6102		
Track: Thermal Engineering for Nuclear and Aerospace Technologies		
Session Chair: Prof. Aliashim Albani, University of Malaysia, Malaysia.		
PAPER PRESENTATIONS		Time: 9:00 A.M. – 10:30 A.M.
Paper ID	**Author(s)**	**Title**
ICFTE-018	Varun Dinachandra, Siddharth Satheesan and Sumer B Dirbude	Numerical analysis of hydrogen micro-mix combustor
ICFTE-050	Ram Kumar Maity, M. Rajendrakumar, R. Suresh Kumar, K. Natesan	CFD Optimization of a Graded-Porosity Flow Redistribution Device for Uniform Flow in Reflux-Type Annular Linear Induction Pumps
ICFTE-051	R. Nandakumar, Ram Kumar Maity, M. Rajendrakumar, Amzad Pasha, R. Suresh Kumar, U. Parthasarathy, K. Natesan	Flow redistribution in reflux-type electromagnetic pumps: cfd-based design realization
ICFTE-083	Chandra Shekhar Sharma and Chennu Ranganayakulu	Dynamic Analysis of the Bleed Air Environment Control System for the Civil and Fighter Aircraft
ICFTE-084	Chandra Shekhar Sharma and Chennu Ranganayakulu	Dynamic Analysis of Four-wheel Bleed-less Air Cycle Aircraft Environment Control System
ICFTE-218	Dinesh Kumar Rao, C.K. Kaithwas, Jitendra Kumar, Kshitij Pandey, Rohit Kumar Singh Gautam, Shivasheesh Kaushik, Rahul S Bharath, Navdeep Singh	Design and thermal analysis of ceramic bearing
ICFTE-044	Pritam Kumar Patel	Design and performance assessment of in-situ resin extraction scheme for ion exchangers of spent fuel storage bay of pfbr using fluidization technique

HIGH-TEA BREAK AND POSTER PRESENTATION		
Time: 10:30 A.M. – 11:00 A.M.		
PAPER ID	**Author(s)**	**Title**
ICFTE-188	Neeraj Kumar Sharma, Suvanjan Bhattacharyya	Experimental and Analytical Evaluation of a Solar-Assisted Milk Cooling System Employing Dual Eco-Refrigerants R1234yf and CO_2 for Enhanced Energy Efficiency
ICFTE-224	Abhishek Tandey, Anuj Sharma, Suvanjan Bhattacharyya	Thermal analysis during micro-dimple fabrication in mechanical micromachining of ti-6al-4v
ICFTE-180	Nancy Maurya, Neerav Krishna, Suvanjan Bhattacharyya	Thermal performance enhancement of ev batteries using magneto-vibrationally assisted circular minichannel cooling
ICFTE-186	Sumit Khatri, Tunde Bello-Ochande, Suvanjan Bhattacharyya	Experimental analysis of forced convection heat transfer development in a rough horizontal tube under transitional flow conditions
ICFTE-071	Samson Olusegun Fatukasi ; Tunde Bello-Ochende	Thermal analysis of electric vehicle battery cooling system with elliptical aluminium foam of varying porosities and locations in a flow channel
ICFTE-205	Raymond O. Ikeleji, Tunde Bello-Ochende	Numerical analysis of a solar latent heat thermal energy storage system using a local thermal equilibrium model
ICFTE-078	Suvanjan Bhattacharyya	Laminar Flow Heat Transfer through a Circular Tube Using Axial Corrugation and Twisted Tapes with and without Oblique Teeth
ICFTE-079	Devendra Kumar Vishwakarma, Andrea Vallati, Abdel El Abed, Rachid Bennacer, Suvanjan Bhattacharyya	Thermo-Hydraulic Performance and Statistical Assessment of Transitional Flow Regimes in Inclined Solar Air Heaters for Enhanced Energy Conversion
ICFTE-183	Aditya Nair, Sri Harsha Dannana, Suvanjan Bhattacharyya	Numerical investigation of heat transfer enhancement of triangular plate fin type compact heat exchangers with delta winglets

PLENARY TALK
Time: 11:00 A.M. – 11:45 A.M. **NAB AUDITORIUM**
Speaker: Prof. Abdel El Abed, ENS Paris, Saclay, France.
Session Chair: Prof. Sudeshna Mukherjee, BITS Pilani, Pilani, India.

KEYNOTE SESSION
Time: 11:45 A.M – 12:15 P.M
KEYNOTE 07: NAB AUDITORIUM Prof. Celestino Rodrigues Ruivo, University of Algarve, Portugal Session Chair: Prof. Manoj K Soni, BITS Pilani, Pilani, India.
KEYNOTE 08: ROOM 6105 Prof. Venugopal Arumuru, Indian Institute of Technology Bhubaneswar, India Session Chair: Prof. Biswadip Shome, BITS Pilani, Pilani, India.
KEYNOTE 09: ROOM 6102 Dr. Sumit Kumar, Manipal Institute of Technology Bengaluru, India. Session Chair: Prof. Sambhunath Barman, NIT Sikkim, India.

PARALLEL SESSION 01		
NAB Auditorium		
Track: Design and Optimization of Thermal and Mass Transfer Systems		
Session Chair: Prof. Abhijit Dutta, MCKV Institute of Engineering, India.		
PAPER PRESENTATIONS		Time: 12:15 P.M. – 1:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-017	Ankit Kumar Agarwal, Dr. Brajesh Tripathi, Dr. K. B. Rana	Enhancement of Drying Behavior of Curry Leaves using Pretreatment Process in the Indirect Type Solar Dryer
ICFTE-033	Amit Yadav, Kushal Sharma	Heat transfer study of Maxwell fluid over a vertically moving circular surface using artificial neural network
ICFTE-052	K. Manikanta Kumar, Dr. Shaligram Tiwari	Numerical investigations of mist cooling in semi-confined outdoor spaces
ICFTE-129	Nirmalendu Biswas	Enhancing Melting Dynamics of Phase Change Material based Latent Heat Energy Storage Systems Using Wavy Channel
ICFTE-162	Yogesh, Vaibhav Dubey, Shivam Samadhiya, Shashank Agarwal, Vishal Chaudhary and Dinesh Kumar	Impact Safety Non-Newtonian Fluid Glove: A Shear-Thickening Composite for Industrial Impact Protection

PARALLEL SESSION 02		
ROOM 6105		
Track: Innovative Techniques for Enhancing Heat Transfer		
Session Chair: Prof. Sudipto Mukherjee, IIT Jodhpur, Rajasthan, India.		
PAPER PRESENTATIONS		Time: 12:15 P.M. – 1:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-008	Ravi Pippal, Pushpendra Kumar Shukla, Sumit Sinha-Ray	Enhancing boiling heat transfer on an ultrafine nanofibrous coated superheated surface using ethanol/swcnt nanofluid
ICFTE-106	Amit K Chauhan, M Rajendrakumar, R Sureshkumar, K Natesan	Thermal Hydraulics Investigation of Passive Heat Transport System
ICFTE-031	Mithun Das, Nirmalendu Biswas	Numerical Analysis of Heat Transfer Enhancement in Microchannel Heat Sinks with Circular Y-Channel Ribs
ICFTE-035	Purab Sharma, Ashwinkumar S. Dhoble, Someshwar S. Bhakre, Shriram S. Ughade, Akshay Shewalkar	Thermal management of lithium-ion batteries using cooling plates
ICFTE-036	Priyanka Yadav	Entropy Generation and Thermodiffusion in Cattaneo–Christov MHD Bioconvective Tangent Hyperbolic Nanofluid Flow with Activation Energy

PARALLEL SESSION 03		
ROOM 6102		
Track: Computational Approaches to Fluid Flow and Thermal Analysis		
Session Chair: Prof. Manabendra Pathak, IIT Patna, India.		
PAPER PRESENTATIONS		Time: 12:15 P.M. – 1:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-010	Nirmalendu Biswas	Hydrothermal characteristics and second law analysis of magneto-nanofluid flow in an octagonal porous enclosure fitted with fins
ICFTE-025	Likhitha A, Greeshma P K, Suyash Bhadoyuria, Ranjith Maniyeri	Numerical study of lid driven cavity with slip boundaries using finite volume method
ICFTE-046	Lokesh S Aurangabadkar	Parametric Numerical Analysis of a Refrigerant Ejector: Influence of Mixing Chamber Geometry and Nozzle Exit Position.
ICFTE-049	P S B Pratyush, Savitry Kumari, Ram S N, Rajeev Senan C, Dr. CH Sreenivasa Rao and K K M Shanbhogue	CFD analysis of flow control valve for spacecraft propulsion systems
ICFTE-069	Surajit Bit, Satyajit Das Karmakar, Sudhir Chandra Murmu, Himadri Chattopadhyay	Turbulent transport around a slender bluff body under flowing wind

LUNCH BREAK	
Time: 1:30 P.M. – 2:30 P.M.	**INSTITUTE CANTEEN**

PARALLEL SESSION 01		
NAB Auditorium		
Track: Combustion Science and Automotive Engineering Applications		
Session Chair: Prof. A. R. Harikrishnan, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 2:30 P.M. – 3:45 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-066	Dr Tushar Anand	Performance and Emission Optimization of a Diesel Engine Fueled with Waste Plastic Oil–Nanoparticle Blends Using Response Surface Methodology
ICFTE-153	Bijoy Das, Mithun Das, Amitava Datta	Development of Reduced Chemical kinetic Mechanism for Combustion modelling
ICFTE-163	Souranshu Roy Chaudhuri, Sourav Sarkar and Achintya Mukhopadhayay	Determination of heat release rate response to flow perturbations in an electrically heated rijke tube using transfer function approach
ICFTE-193	Deepak Tanwar	Sustainable Biodiesel from Waste Animal Tallow: Production, Engine Performance, Emission Characteristics, and Economic Assessment
ICFTE-214	Vibhanshu Ingale, Saket Verma	Parametric Optimisation of Hybrid Electric Vehicle Powertrain using Design of Experiments

PARALLEL SESSION 02		
ROOM 6105		
Track: Energy Conversion Devices and Integrated Systems		
Session Chair: Dr. Vivek Kumar Singh, Indian Space Research Organization, India.		
PAPER PRESENTATIONS		Time: 2:30 P.M. – 3:45 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-155	Deepika Kumari	Investigation of Thermal Energy Storage Materials for Solar Cooking
ICFTE-189	Naveen Kumar Sain, Chandan Kumar, Ashish Nayyar	Performance Evaluation of Cow Dung–Based Composite Biomass Briquettes for Thermal Energy Applications
ICFTE-216	Krishna Kumar Saini	Residual Time-Based Control of Heterogeneous Cooling Loads for Demand Response
ICFTE-223	Akhilesh Kumar, Srikanta Routroy, Subhasis Pradhan, Sushil Yadav and Suvanjan Bhattacharyya	Enhancing Milk Shelf Life Through Insulating Materials: A Systematic Review of Storage Technologies
ICFTE-219	Dinesh Kumar Rao, C.K. Kaithwas, Navdeep Singh, Ruby Pant, Rohit Kumar Singh Gautam, Shivasheesh Kaushik, Virendra Kumar Sharma, Premantusha Sahay	Reliability enhancement of rotating equipment using vibration analysis and thermography as a tool

PARALLEL SESSION 03		
ROOM 6102		
Track: Flow Instabilities, Transition Mechanisms and Turbulent Dynamics		
Session Chair: Prof. Venugopal Arumuru, Indian Institute of Technology Bhubaneswar, India		
PAPER PRESENTATIONS		Time: 2:30 P.M. – 3:45 P.M.
Paper ID	Author(s)	Title
ICFTE-021	Sachin Yashavant Shinde and Prasanth Prabhakaran	Entrainment in a Turbulent Jet: A New Approach
ICFTE-177	Mayank Mani Pandey	Design and thermal simulation of passive vapor chamber for hot spot mitigation in high power electronic devices
ICFTE-023	Yasar Arafath. U, Rajat Kumar Sahu, A. C. Mandal	An investigation of the separated flow over a blunt circular disk
ICFTE-087	Sarath R S, R Ajith Kumar and K Suresh Kumar	Flow over two tandem square cylinders: control using a downstream splitter plate
ICFTE-098	Mohamed Aniffa S, Sunetra Sarkar	Spatial Dynamic Mode Decomposition Analysis in the Wake of an Elliptical Plunging Foil

TEA BREAK
Time: 3:45 P.M. – 4:00 P.M.

KEYNOTE SESSION
Time: 04:00 A.M – 04:30 P.M
KEYNOTE 10: NAB Auditorium Prof. Sudipto Mukherjee, IIT Jodhpur, Rajasthan, India. Session Chair: Prof. Hitesh D. Mathur, BITS Pilani, Pilani, India.
KEYNOTE 11: ROOM 6105 Dr. Vivek Kumar Singh, Indian Space Research Organization, India. Session Chair: Dr. G Venkatesh, Indian Space Research Organization, India.
KEYNOTE 12: ROOM 6102 Dr. Nikhil, MNRE, India. Session Chair: Dr. Vivek Bharti, DRDO, India.

ONLINE KEYNOTE TALK
Time: 04:30 P.M – 5:00 P.M. **NAB Auditorium**
Prof. Gaurav Tomar, Indian Institute of Science, Bangalore. **Session Chair: Prof. Sharad Shrivasthva, BITS Pilani, Pilani, India.**

ONLINE SESSION 01		
		MATERIAL SCIENCE LAB
Session Chair: Prof. Rajesh P Mishra, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 5:00 P.M. – 6:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE- 027	Swagata Gupta, Bittagopal Mondal, Chanchal Loha, Ishita Sarkar	Investigation of Immersion Cooling Effects on the Thermal Behaviour of High-Discharge Lithium-Ion Battery Packs
ICFTE- 054	Samarth Pasilkar	Extraction of Carpaine from Carica Papaya Leaves and its Pharmacological Insights: A Comprehensive Review
ICFTE- 055	Sohail Ansari, Prarthana Deshpande	Development of Sustainable High-Performance 3D Printed Polymer Composites and Functional Membranes for Wastewater Treatment Applications
ICFTE- 057	Isha Amit Tambe	Advances in Extraction, Separation, and Purification of Linoleic and Oleic acid from Natural Sources: A Comprehensive Review
ICFTE- 059	Prarthana Deshpande	Electrostatic Discharge Sheet using Biodegradable Polyvinyl Alcohol/ Carbon Black Composite
ICFTE- 003	Nirmalendu Biswas	Magneto-convective heat transfer of CuO-water nanofluid in a plus-shaped porous enclosure under thermal radiation
ICFTE-164	Debabrata Roy, Rajat Subhra Das, Nirmalendu Biswas	Thermal and Hydraulic Performance Assessment of Jet-Plate Solar Air Heaters

ONLINE SESSION 02		
		DEPARTMENT MEETING ROOM
Session Chair: Prof. Anuj Sharma, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 5:00 P.M. – 6:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE- 063	Harshwardhan Patil	Waste Tyre Pyrolysis Char: Activation Methods, Structural Features, and Applications- A Review
ICFTE- 097	Pranjal Gandhre, Varun Shrotri, Siddhesh Pawar, Luckman Muhmood	Influence of Calcium Nitrate with Chloride Addition on Thermophysical Properties of Molten Salt Mixtures for CSP Systems
ICFTE- 100	Santosh Kumar Dash, Dharmeswar Dash, Nitesh Mondal and Pritam Kumar Das	Supplement of hydrogen with waste cooking-based biodiesel for diesel engine
ICFTE- 114	Vinay Prakash Verma, Prasun Dutta, Vikas	Computational Investigation on the thermal performance of heat pipe-flat plate collector
ICFTE- 118	Vemu Sahiti, PS Gurugubelli, VK Surasani	D3Q19-MRT lattice Boltzmann method for unbounded flows with OPENMP Parallelization
ICFTE- 169	Moumita Roy, Prokash C. Roy, Shambhunath Barman	CFD Simulation Approach for Drying Process of Large Cardamom Using Traditional Bhatti
ICFTE-115	Navneet Manoj, Anwesha Mishra, Pardha S. Gurugubelli	Airfoil Shape Optimization using Genetic Algorithm

ONLINE SESSION 03		
		SUPPLY CHAIN LAB
Session Chair: Prof. Shyam Sundar Yadav, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 5:00 P.M. – 6:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE- 010	Nirmalendu Biswas	Hydrothermal characteristics and second law analysis of magneto-nanofluid flow in an octagonal porous enclosure fitted with fins
ICFTE- 138	Pratik Roy, Ranjan Ganguly and Nirmalendu Biswas	Comparative analysis of biological tissue heat transfer dynamics in magnetic fluid hyperthermia
ICFTE- 157	Dipankar Paul, Anjan Nandi, Nirmalendu Biswas, and Suvanjan Bhattacharyya	Enhanced Thermal Regulation of High-Rate Prismatic Batteries Utilising Hybrid Cooling Technique
ICFTE- 192	Shubham Das, Sandip Sarkar, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna	Curriculum-Driven Graph U-Net Framework for MHD Nanofluid Convection in Complex Enclosures
ICFTE- 195	Ayush Ganguly, Sandip Sarkar, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna	Physics-Informed Neural Networks (PINNs) for Data-Efficient Reconstruction of Thermofluid Flow Fields in Classical Cavity Systems
ICFTE- 196	Sayandeep Sain, Anubhav Chowdhury, Nirmalendu Biswas, Dipak Kumar Mandal and Nirmal K. Manna	Fluid-structure interaction of pulsatile blood flow in asymmetric stenosed arteries

DATE: 21.01.2026 – DAY 03

PARALLEL SESSION 01		
NAB Auditorium		
Track: Multi-phase Fluid Dynamics and Thermal Interactions		
Session Chair: Prof. Gaurav Sharma, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 9:00 A.M. – 10:45 A.M.
Paper ID	**Author(s)**	**Title**
ICFTE-007	Rahul Bhattacharjee, Anirudh Singh Rana	Influence of Pair Correlation Function on Latent Heat and Evaporation Dynamics of Sub-micron Droplet.
ICFTE-089	Kavan Utpal Lad, Parth Uppal, P. Srinivasan	Efficiency Enhancement of Photo-voltaic cell using Novel Ethanol based Phase Change Cooling
ICFTE-103	Jyoti Moni Devi, Biplab Kumar Debnath and Rajat Subhra Das	Effects of Metal-Oxide Nanoparticle-Doped Biochar on Morphology, Chemical, and Thermal Properties of Phase Change Materials
ICFTE-225	Bilash Thakur	From periodic oscillations to chaos in a single-branch pulsating heat pipes system
ICFTE-226	Dipankar Das	Bifurcation analysis of two-phase flow instabilities in a single heated channel
ICFTE-145	Md Danish Eqbal, Akash Priy, Manabendra Pathak, Mohd. Kaleem Khan	Two-phase heat transfer enhancement of open microchannel heat sinks
ICFTE-228	Pankaj Kumar Sagar, Prof. Akhilesh Arora	CFD Analysis of a Ranque-Hilsch Vortex Tube: brief review

PARALLEL SESSION 02		
ROOM 6105		
Track: Instrumentation and Experimental Methods in Thermal Sciences and Biomedical Systems		
Session Chair: Dr. Surojit Pande, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 9:00 A.M. – 10:45 A.M.
Paper ID	**Author(s)**	**Title**
ICFTE-190	Sharmi Sarkar, Mithun Das, Nirmalendu Biswas	Effect of Reynolds Number and Stream Configuration on Mixing Time in a Multi-Inlet Vortex Reactor
ICFTE-196	Sayandeep Sain, Anubhav Chowdhury, Nirmalendu Biswas, Dipak Kumar Mandal and Nirmal K. Manna	Fluid-structure interaction of pulsatile blood flow in asymmetric stenosed arteries
ICFTE-221	Akshay S Bhat, Dr.G B Krishnappa, Dr.Srinivasan Kasthurirengan, Dr.Govinda Rao Yenni	Experimental Investigation of Thermal Conductivity in Solid Materials Using Transient Plane Source Method
ICFTE-168	Rolee Verma	Thermophysical and thermoacoustical studies of binary liquid mixture of N, N-Dimethylacetamide with Dimethyl sulfoxide at different temperatures.
ICFTE-170	Eshita Kakodkar, Ranjan Dey	Intermolecular Interactions in Ternary Mixture of Industrial Solvents (N Methyl-2-Pyrrolidone + Dimethyl

		Sulfoxide + Water): A Thermophysical and Thermoacoustical Investigation
ICFTE-172	Eshita Kakodkar, Ranjan Dey	Mineralisation of industry-relevant solvent post usage from wastewater
ICFTE-227	Ankur Mittal, Prof Manoj Kumar Soni	Solar Energy Integration in Synthesis of SCM for Indian Cement Industry

PARALLEL SESSION 03		
ROOM 6102		
Track: Innovative Techniques for Enhancing Heat Transfer		
Session Chair: Prof. Anirudh Singh Rana, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 9:00 A.M. – 10:45 A.M.
Paper ID	**Author(s)**	**Title**
ICFTE-038	Bathula Mahesh, Praveen D Sawarkar, Someshwar S Bhakre	Numerical Studies on Thermal Performance of Solar Air Dryer Using New Drying Chamber.
ICFTE-040	Kuldhir Singh Bhati, Dr. Harekrishna Yadav	DES study on the effect of Reynolds number and pipe length on the secondary peak for the steady jet impingement
ICFTE-043	Nisha Kanwar Chouhan	Analysis of Heat and Mass Transfer in Maxwell Nanofluid Flow Under Magnetic Dipole
ICFTE-045	Atharva Sharma, Atharv Srivastava, Kartikey, Navaneeth K Marath	Localized Bed Cooling for Sleep Comfort: A Sustainable Alternative to Room Air Conditioning
ICFTE-047	Kundrapu Jagadeesh Naidu, Shaligram Tiwari	Heat Transfer Enhancement Using Multiple Rectangular Winglet Pairs in Fin-Tube Heat Exchangers
ICFTE-053	Nand Kishor Sharma	Analysis of Convective Heat Transfer in Powell Eyring Fluid Flow over a Curved Stretching Surface with the Influence of Magnetic Field and Heat Source
ICFTE-081	Saddam Hossain Mullick, Pranab Kumar Kundu, Supratim Datta and Sourav Majumdar	MND natural convection inside a square enclosure with porous partition filled by nanofluid

HIGH TEA BREAK
Time: 10:45 A.M. – 11:15 A.M.

KEYNOTE SESSION
Time: 11:15 A.M. – 11:45 P.M.
KEYNOTE 13: NAB Auditorium Prof. Sandip Sarkar, Jadavpur University, Kolkata, India. Session Chair: Prof. Arun Kumar Jalan, BITS Pilani, Pilani, India.
KEYNOTE 14: ROOM 6105 Prof. Syamantak Majumder, BITS Pilani. Session Chair: Prof. Ranjan Dey, BITS Pilani, Pilani, India.
KEYNOTE 15: ROOM 6102 Prof. Arindam Bit, NIT Raipur, Raipur, India. Session Chair: Prof. Shibasish Chowdhury, BITS Pilani, Pilani, India.

PLENARY TALK	
Time: 11:45 A.M. – 12:30 P.M.	NAB AUDITORIUM
Speaker: Prof. Tunde Bello-Ochende, University of Cape Town, South Africa.	
Session Chair: Prof. Sandip Sarkar, Jadavpur University, Kolkata, India.	

KEYNOTE SESSION
Time: 12:30 P.M. – 1:00 P.M.
KEYNOTE 16: NAB Auditorium Prof. Prof. Aliashim Albani, University of Malaysia, Malaysia. Session Chair: Prof. Sachin U Belgamwar, BITS Pilani, Pilani, India.

LUNCH BREAK
Time: 1:00 P.M. – 2:00 P.M.

PARALLEL SESSION 01

NAB Auditorium

Track: Innovative Techniques for Enhancing Heat Transfer

Session Chair: Prof. Chennu Ranganayakulu, BITS Pilani, Pilani, India.

PAPER PRESENTATIONS — Time: 2:00 P.M. – 3:30 P.M.

Paper ID	Author(s)	Title
ICFTE-082	Saddam Hossain Mullick, Yogeshwar Singh, Supratim Datta and Pranab Kumar Kundu	Natural convection inside a square porous cavity with thermally conducting extended surfaces
ICFTE-093	Ayesha Wasim, G. Bhargava Teja, Prasanth A K Lam	A novel hybrid jet-swirl cooling system for heat transfer augmentation in the leading edge of gas turbine blade
ICFTE-099	Krittika Patwari, Ashish B. Khelkar, Rajat Subhra Das	Performance assessment of different types of rib-grooves on the receiver plate of a double-pass solar air heater
ICFTE-107	Rahul Ranjan	CFD Analysis of a PCM-liquid Hybrid Battery Thermal Management System for Enhanced Thermal Regulation.
ICFTE-108	Nirmalendu Biswas	Impact of wavy wall corrugations on performance of solar air heater
ICFTE-128	Nirmalendu Biswas	Shape matters for enhancing PCM-based thermal energy storage

PARALLEL SESSION 02

ROOM 6105

Track: Design and Optimization of Thermal and Mass Transfer Systems

Session Chair: Prof. Saket Verma, IIT Guwahati, India.

PAPER PRESENTATIONS — Time: 2:00 P.M. – 3:30 P.M.

Paper ID	Author(s)	Title
ICFTE-165	Shashank Saxena, Piyush Kumar Jain and Kalpana Sachan	A Comparative Evaluation and analysis of Pipe Materials on the Thermal and Operational Performance of Earth–Air Heat Exchangers

ICFTE-003	Nirmalendu Biswas	Magneto-convective heat transfer of CuO-water nanofluid in a plus-shaped porous enclosure under thermal radiation
ICFTE-184	Vivek Bharti, Chennu Rangnayakulu, Manoj Kumar Soni	Multi-Parameter Optimisation of a Two-Pass Plate-Fin Heat Exchanger for Aircraft Environmental Control Systems
ICFTE-204	Shivasheesh Kaushik	Effect of Multi Channels Microchannel Equipped Peripheral Rectangular Inserts (PRI) and Hybrid Nanofluid on Thermal Performance Characteristics of Concentric Tube Microchannel Exchanger (CTMCE)
ICFTE-208	Shivasheesh Kaushik, Vinay Sati, Srinivasan Periaswamy, Srikanta Routroy	Design and development of pcm-thermal energy storage system integrated solar pv & solar ptc-assisted fluidized bed grain drying system for industrial application

PARALLEL SESSION 03		
ROOM 6102		
Track: Computational Approaches to Fluid Flow and Thermal Analysis		
Session Chair: Prof. Radha Raman Mishra, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 2:00 P.M. – 3:30 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-105	K Arunkumar, R Ajith Kumar, K Suresh Kumar	Flow over two tandem circular cylinders: investigation of wake parameters
ICFTE-014	Chandra Tivrakrishna Panday, Amish Samaiya, Devendra Kumar Vishwakarma, Suvanjan Bhattacharyya	Hybrid magnetic nanofluid cooling with virtual vortex generation for enhanced battery thermal management in electric vehicles
ICFTE-113	Sumit Kumar	Voltage-Driven Capillary Flow in a Parallel-Plate Channel via Electrowetting of Colloidal Liquids
ICFTE-114	Vinay Prakash Verma, Prasun Dutta, Vikas	Computational Investigation on the thermal performance of heat pipe-flat plate collector
ICFTE-034	S Sankaran, G Venkatesh, M Deepthi, B Aditya, K Kali Prasad, VV Ramakrishna	Evaluation of pressure loads due to supersonic wall jet and acoustics on launch pad structures during lift-off
ICFTE-116	Vikas Grover	Study of Thermomechanical Behaviour of Rotary Kilns

TEA BREAK
Time: 3:30 P.M. – 3:45 P.M.

PARALLEL SESSION 01		
NAB Auditorium		
Track: Innovative Techniques for Enhancing Heat Transfer		
Session Chair: Prof. Arindam Bit, NIT Raipur, Raipur, India.		
PAPER PRESENTATIONS		Time: 3:45 P.M. – 5:15 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-131	Om Karmakar, Anjan Nandi, Jotiraditya Banerjee, Dipankar Paul and Nirmalendu Biswas	A pinn–gwo framework for enhancing melting dynamics of pcm in fin-assisted trapezoidal thermal system
ICFTE-142	Bipin Kumar, Anil Kumar Patil, Manoj Kumar	Heat-transfer performance of a tube heat exchanger with inline semi-circular winglets in strip inserts
ICFTE-145	Md Danish Eqbal, Akash Priy, Manabendra Pathak, Mohd. Kaleem Khan	Two-phase heat transfer enhancement of open microchannel heat sinks
ICFTE-157	Dipankar Paul, Anjan Nandi, Nirmalendu Biswas and and Suvanjan Bhattacharyy	Enhanced Thermal Regulation of High-Rate Prismatic Batteries Utilising Hybrid Cooling Technique
ICFTE-016	Ram babu Gupta	A novel fin with ring plate design for efficient heat dissipation in air-cooled lithium-ion battery packs
ICFTE-171	Jinendrika Anushi Weliwita, Saleimah Alyammahi, Sanjeeva Witharana	AI Assisted Nanofluid Boiling and Surface Engineering for Enhanced Heat Transfer Performance

PARALLEL SESSION 02		
ROOM 6105		
Track: Computational Approaches to Fluid Flow and Thermal Analysis		
Session Chair: Prof. Tribeni Roy, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 3:45 P.M. – 5:15 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-133	Shyam Sunder Yadav	Numerical Simulation of Incompressible Two-Phase Magnetohydrodynamic Flows
ICFTE-134	Deepak Talan, Shyam Sunder Yadav	Numerical Simulation of Three-Phase Flows with Phase Change
ICFTE-135	Akansha Singh, Shyam Sunder Yadav, Suvanjan Bhattacharyya	Direct Numerical Simulation (DNS) of Emulsion Behavior Under Electric Field
ICFTE-136	Jotiraditya Banerjee, Anjan Nandi, Dipankar Paul, Nirmalendu Biswas, Dipak Kumar Mandal and Nirmal K. Manna	Ensemble and Physics-Informed Learning Model for Next-Generation Passive Micromixer Engineering
ICFTE-137	Niladri Sarkar, Md Shams Nayeem, Aranyak Chakravarty, Koushik Ghosh	Effect of gravity on natural convection of supercritical co2 in a cylindrical enclosure with an embedded heater
ICFTE-154	Rajib Majumder	A numerical study on the effects of intermediate hydrophobic bands on the mixing phenomena in a square wave microchannel at low Reynolds number flow

PARALLEL SESSION 03		
ROOM 6102		
Track: Computational Approaches to Fluid Flow and Thermal Analysis		
Session Chair: Prof. Madhurjya Dev Choudhury, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 3:45 P.M. – 5:15 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-118	Vemu Sahiti, PS Gurugubelli, VK Surasani	D3Q19-MRT lattice boltzmann method for unbounded flows with openmp parallelization
ICFTE-120	Swati Routh, Anushka Sharma and Saniya Lahoti	Extending lamb's acoustic cutoff to underwater acoustics: implications for sofar channel propagation
ICFTE-121	Avipso Sinha, Kaulik Das, Aranyak Chakravarty, Koushik Ghosh	A Computational Study of Convective Heat Transfer of Supercritical CO2 in Parallel and Counter-Flow Heat Exchangers
ICFTE-126	Priyanga R	Computational Analysis of Pulsatile Carreau Blood Flow Through an Axisymmetric Triple-Stenosed Porous Artery Under Magnetohydrodynamic Effects
ICFTE-132	Deepanjan Das, Ranjit Barua, Nirmalendu Biswas and Nirmal K. Manna	Coalescence and non-coalescence of droplet inside a bifurcated microchannel

TRANSITION TIME
Time: 5:15 P.M. – 5:30 P.M.

PARALLEL SESSION 01		
NAB Auditorium		
Track: Enhancing Heat Transfer and Computational Thermal Analysis		
Session Chair: Prof. M. S. Dasgupta, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 5:30 P.M. – 6:45 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-182	Surjo Das, Srirama Nrisimha Sai Sripada, Penta Jayvardhan, Srinjoyee Chakravarty	Thermal Performance Evaluation of Novel Hybrid PCM–Liquid Cooled Battery Thermal Management System for Electric Vehicles
ICFTE-212	Santanu Dey	A novel Compact radial multizone dryer: A solution for drying heat sensitive cohesive particles
ICFTE-160	Sk Mintajuddin Ahamed, Amitava Dutta, Nirmalendu Biswas	Performance analysis of Electroosmotic micromixer: Effect of mixing chamber orientation
ICFTE-229	Ksheerja Arora, Swastika Singh, Pramendra Kumar Bajpai	Performance enhancement of a Refrigeration system by utilizing its waste heat in Vapour Absorption Refrigeration system
ICFTE-202	Swagato Dhara, Sayandeep Sain, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna and Suvanjan Bhattacharyya	MHD thermal convection and entropy generation in a nanofluid-filled curvilinear cavity with central cold obstruction under thermal radiation

PARALLEL SESSION 02		
ROOM 6105		
Track: Computational Approaches to Fluid Flow and Thermal Analysis		
Session Chair: Prof. Tunde Bello-Ochende, University of Cape Town, RSA.		
PAPER PRESENTATIONS		Time: 5:30 P.M. – 6:45 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-174	Hiranmoy Samanta	Numerical Study of Savonius type wind Turbine using Computational Fluid Dynamics
ICFTE-175	Hiranmoy Samanta, Sk. Tarif Ali, Debajit Saha, Shambhunath Barman	Numerical Modelling of Li-Ion Battery Thermal Management System
ICFTE-191	Tapasvi Bhatt	Payload-dependent thermal endurance of PCM cold boxes: an experimental-computational framework
ICFTE-122	Dhruwan Shah	Stabilization of Freely-falling Disks using Bristle Brushes
ICFTE-123	Madhaneeswaran K	CFD Analysis of Flow and Heat Transfer Characteristics in a Rectangular Channel with Detached Pin Fins

PARALLEL SESSION 03		
ROOM 6102		
Track: Computational Approaches to Fluid Flow and Thermal Analysis		
Session Chair: Prof. Abhijit K Digalwar, BITS Pilani.		
PAPER PRESENTATIONS		Time: 5:30 P.M. – 6:45 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE-197	Sayantan De, Sayandeep Sain, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna and Suvanjan Bhattacharyya	Thermo-magnetic convection and entropy generation in t-shaped cavity
ICFTE-200	Soham Vaishampayan, Bhavik Yelhekar, Manish Bagul, Vyankatesh Narhare, Neal Asalkar	Effect of Temperature on Pressure Drop in Laminar and Turbulent Pipe Flow: A Comprehensive Analytical, Numerical, and Computational Study
ICFTE-209	Jiban Chowdhury, Dr. Y.V.S.S. Sanyasiraju	Unsteady Mixed Convection in a Two-Sided Lid-Driven Cavity with a Porous Elliptical Cylinder
ICFTE-210	Akash Yadav, Dr. Sanyasiraju VSS Yedida	Natural Convection in a Parabolic-Dip Porous Cavity Subjected to Sinusoidal Bottom Wall Heating
ICFTE-217	Manmahendra Singh Daksh, Puneet Mishra	Intelligent Impedance Control and Force Estimation for Surgical Tool-Tissue Interaction using Neural Network Adaptive Modeling

ONLINE SESSION 01		
Material Science Lab		
Session Chair: Prof. Ranjan Dey, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 4:45 P.M. – 6:15 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE- 120	Swati Routh, Anushka Sharma and Saniya Lahoti	Extending LAMB's acoustic cutoff to underwater acoustics: implications for sofar channel propagation
ICFTE- 123	Madhaneeswaran K	CFD Analysis of Flow and Heat Transfer Characteristics in a Rectangular Channel with Detached Pin Fins
ICFTE- 126	Priyanga R	Computational Analysis of Pulsatile Carreau Blood Flow Through an Axisymmetric Triple-Stenosed Porous Artery Under Magnetohydrodynamic Effects
ICFTE- 143	Prosenjit Singha	Mapping the Research Landscape of Subcooling Technologies in Sustainable Refrigeration Systems
ICFTE- 144	Djamila BENYOUCEF	Natural convection of nanofluids — multiphase CFD
ICFTE- 231	Tarun Kanti Pal, Dipankar De, Asit Kumar Singh, Suvanjan Bhattacharyya, and Anjan Bhunia	Flow Sudy of Clay Material in LDM (Liquid Deposition Modeling) 3D PrintingTechnology
ICFTE-198	Soham Bhattacharya, Sayandeep Sain, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna and Suvanjan Bhattacharyya	Thermo-magnetic convection of nanofluid in an astroid-shaped porous enclosure with thermal radiation

ONLINE SESSION 02		
Department Meeting Room		
Session Chair: Prof. Amit Kumar Jain, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 4:45 P.M. – 6:15 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE- 147	SVH Nagendra, DVS Bhagavnulu	Numerical and data driven investigation of fluid flow past a bluff body
ICFTE- 082	Saddam Hossain Mullick, Yogeshwar Singh, Supratim Datta and Pranab Kumar Kundu	Natural convection inside a square porous cavity with thermally conducting extended surfaces
ICFTE- 174	Hiranmoy Samanta	Numerical Study of Savonius type wind Turbine using Computational Fluid Dynamics
ICFTE- 175	Hiranmoy Samanta, Sk. Tarif Ali, Debajit Saha, Shambhunath Barman	Numerical Modelling of Li-Ion Battery Thermal Management System
ICFTE- 206	Sayandeep Sain, Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna and Suvanjan Bhattacharyya	Magneto-convective heat transfer and entropy generation in a teardrop-shaped cavity
ICFTE- 218	Dinesh Kumar Rao, C.K. Kaithwas, Jitendra Kumar, Kshitij Pandey, Rohit	Design and thermal analysis of ceramic bearing

	Kumar Singh Gautam, Shivasheesh Kaushik, Rahul S Bharath, Navdeep Singh	

ONLINE SESSION 03		
Supply Chain Lab		
Session Chair: Prof. Sunil Sinhmar, BITS Pilani, Pilani, India.		
PAPER PRESENTATIONS		Time: 4:45 P.M. – 6:15 P.M.
Paper ID	**Author(s)**	**Title**
ICFTE- 219	Dinesh Kumar Rao, C.K. Kaithwas, Navdeep Singh, Ruby Pant, Rohit Kumar Singh Gautam, Shivasheesh Kaushik, Virendra Kumar Sharma, Premantusha Sahay	Reliability enhancement of rotating equipment using vibration analysis and thermography as a tool
ICFTE- 220	Sushil Kumar Choudhary, Dinesh Kumar Rao, Navdeep Singh, Shivasheesh Kaushik, Prabhakar Bhandari	Parametric optimization of edm progression for overcut on machining of inconel 600 by tungsten carbide tool with taguchi technique
ICFTE- 081	Saddam Hossain Mullick, Pranab Kumar Kundu, Supratim Datta and Sourav Majumdar	MHD natural convection inside a square enclosure with porous partition filled by nano-fluid
ICFTE- 150	Kota Anjaneya Sarma	Solar thermal coatings
ICFTE- 088	Ashish Babarao Khelkar, Rajat Subhra Das, Ganesh Sahadeo Meshram, Gloria Biswal	Numerical assessment of heat transfer and flow dynamics in nanofluid enhanced wavy ducted pin-finned solar air heater
ICFTE-075	Costanza Vittoria Fiorini, Axel Riccardo Massulli, Gianluigi Lo Basso, Andrea Vallati	Experimental analysis and dynamic energy model of a Gas Liquid Energy Storage (GLES) for electric and thermal storage

VALEDICTORY SESSION	
Time: 6:45 P.M. – 7:00 P.M.	NAB Auditorium

TEA
Time: 7.00 P.M.

**********END**********