

**ASME GAS TURBINE INDIA 2023 CONFERENCE
TECHNICAL SCHEDULE**

Thursday, Dec 7

Room Name	1:45 pm - 3:45 pm						4:00 pm - 6:00 pm					
Session Room 1	Invited Talk 01 and 02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Tutorial 01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Rosabeth Moss Kanter Room 2nd floor, Right Wing BLDG #11	1:45 to 2:45	Invited Talk 01		Advanced Computational Methods	Joseph Mathew		4:00 to 4:30					
	2:45 to 3:45	Invited Talk 02		Contribution of Propulsion to Sustainable Aviation	Andrew Gwynne		4:30 to 6:00	Tutorial 01		Compressor Design	Chetan Mistry	
Session Room 2	Track 02 -01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 02 -02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Charles Handy Room 2nd floor, Left Wing BLDG #11	1:45 to 2:15	Turbines	118361	Gas Turbine Instrumented Exhaust System Structural Assessment	Marco Simoncini	Debasis Biswas	4:00 to 4:30	Turbines	118407	Mplementation of Flow Control Methods for Design of Connecting Duct of Annular Sector Cascade Tunnel	Hardikumar Bhavsar	T Chandrasekar
	2:15 to 2:45		117532	Effects of Vane Trailing Edge Deterioration on Flow Phenomena: A CFD Simulation of Broken Scenarios	Prasert Prapamonthon		4:30 to 5:00		118437	Non-Axisymmetric Stator Hub Endwall Contouring for Tandem Bladed Axial Compressor Stage	Priyanka S	
	2:45 to 3:15		118424	Effect of Variable Tip Clearance at the Inlet and Exit of a Radial In-Flow Turbine	R D Bharathan		5:00 to 5:30		118641	Studies on Unsteady Turbulence Flow Characteristics Associated With Stator-Rotor Interaction Originated Thermal Flow Phenomena Using a High Order LES Model	Debasish Biswas	
	3:15 to 3:45		118681	Turbo-Rotor Balancing and Optimization Using Groove-Geometry Simulation Approach	Nitin Pagar		5:30 to 6:00		118451	Computational Investigations of Effect of Reynolds Number on Secondary Losses and Flow Behavior in Linear Turbine Cascade	Anand Darji	
Session Room 3	Track 01-01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 01-02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
3m G #11	1:45 to 2:15		117883	The Variational Principle of a Rotor Passage Shock in the Circumferential Average Through Flow Inverse Problem of the Axial Compressors and Applications	Tian-yi Luo		4:00 to 4:30		118322	Inlet Distortion Studies on a Centrifugal Compressor	M. C. Keerthi	

Katherine Briggs Roc 1st floor, Left Wing BLD	2:15 to 2:45	Compressors, Fans and Pumps	118396	Improving the Stage Efficiency of Axial Compressors by Vane Rotation	Akhila Ajith	M C Keerthi	4:30 to 5:00	Compressors, Fans and Pumps	118405	High Speed Centrifugal Compressor Performance Evaluation With Leaning Diffuser Vane Configurations	Porika Niveditha	Murali Kunasekaran
	2:45 to 3:15		118399	Study of Tandem Rotor Dual Wake Interaction With Downstream Stator Under Unsteady Numerical Approach	Ajey Singh		5:00 to 5:30		118456	Design of a Facility for Testing Centrifugal Compressors	Jaiprakash Anand	
	3:15 to 3:45		118442	Aerodynamic Design Aspects for Small-Size Transonic Contra-Rotating Fan Stage	Manideep Pasupula		5:30 to 6:00		118476	Aerodynamic Design Improvement of Centrifugal Compressor for Turbocharger Application	Kirubakaran P	
Session Room 4	Track 04 -01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 04 -02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Joseph Luft Room 1st floor, Left Wing BLDG #11	1:45 to 2:15	Combustion, Fuels and Emissions	117326	Accuracy Improvement of Flamelet Generated Manifold (FGM) Model in Modeling Partially Premixed Combustion Systems by Combining Machine Learning	Sourabh Shrivastava	Pankaj Saha	4:00 to 4:30	Combustion, Fuels and Emissions	118421	Experimental and Numerical Investigation of Velocity Flow Field in a Novel 3D Printed Triple Swirler Burner	Mahesh R Thombare	Ram Bahadur Singh
	2:15 to 2:45		117620	Stability and Combustion Characteristics of Stratified Oxy-Methane Flames in a Dual Swirl Burner: Effect of Swirl	ANAS Alhazmi		4:30 to 5:00		118340	Experimental Analysis and Reduced Order Modelling of Merging Flames	Sirshendu Mondal	
	2:45 to 3:15		118362	Reactor Network Analysis of a Novel Rich-Quench-Lean Combustion Concept for Hydrocarbon Fuels	Fernando Biagioli		5:00 to 5:30		118360	Investigation of High Thermal Intensity Porous Media Combustion in a Reverse Flow Combustor	Dr. Vaibhav K Arghode.	
	3:15 to 3:45		118425	Spray Combustion Study of Biofuel-Blended Aviation-Grade Fuel in an Annular Air-Swirl Burner	Manikandan Balasubramaniyan		5:30 to 6:00		118466	Numerical Investigation on the Optimization of Angled Effusion Holes of Liner Assembly of Micro Gas Turbine Engine Combustor	Nivedita Shahi	
Session Room 5	Track 05-01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 03 -01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Harold Ingham Room 1st floor, Left Wing BLDG #11	1:45 to 2:15	Structures and Dynamics	118307	Creep Behaviour of the Gas Turbine Parts With the Dissimilar Materials	Manoharan Sambandam	Sandeep Dhar	4:00 to 4:30	Heat Transfer	117608	Conjugate Heat Transfer Approach to Gas Turbine Engine Modeling	Jaasim Mulla	Sanjay Vijayaraghavan
	2:15 to 2:45		118346	Turning Vane FE Model Validation Using Ping Test	Aparna Satheesh		4:30 to 5:00		118371	Design of Cooling Air Flow and Thermal Analysis for an Afterburner V-Gutter	Azith Aadhithya	
	2:45 to 3:15		118365	Performance Enhancement Kit for Frame 51 Machine With DLN Combustor	Abhimanyu S		5:00 to 5:30		118457	Improving Film Cooling Effectiveness Using Sister Holes With Primary Hole Through Adverse Compound Angle Orientations	Seralathan Sivamani	
	3:15 to 3:45		118377	Structural Validation of Portable Compressor Trailer Under Dynamic Conditions	Mehul Bhirud		5:30 to 6:00		118670	Vortex Characterization of Rotor-Stator Cavities Dominated With Radial Flows	Kali Charan Nayak	
Session Room 6	Track 06-01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 04 - 05	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair

Isabel Myers Room 1st floor, Left Wing BLDG #11	1:45 to 2:15	Renewable Energy (Solar, Wind)	118292	Influence of Concentrated Augmenter on the Performance of a Two-Bladed Savonius Wind Rotor Composed of Arc-Elliptical Profile	Nur Alom	Jaikumar Loganathan	4:00 to 4:30	Combustion, Fuels and Emissions	118324	Combustion of Hydrogen and Natural Gas at Elevated Air Temperature Using 3D Printed Burner	Raju Murugan	Pankaj Saha		
	2:15 to 2:45		118458	Diameter-to-Chord Ratio Effect on the Aerodynamic Performance of Small-Scale Darrieus-Type Straight-Bladed Vertical Axis Wind Turbine	Kabita Naik		4:30 to 5:00				117904		Combined Cycle Power Plant Economic Evaluation With Hydrogen and Ammonia As Alternate Fuel	Muruganandam Pichandi
	2:45 to 3:15		118494	Numerical Simulation of an S-Shaped Hydrofoil to Study the Influence of Turbulence Over Cavitation in the Flow	Micha Prem Kumar T		5:00 to 5:30				118472		Design and Numerical Analysis of a Lean Burn Combustor Liner Inlet for Micro-Gas Turbine Engine Applications	Vatsal Tyagi
	3:15 to 3:45		118499	Wind Tunnel Assisted Analysis on the Effect of Span-Wise Separation of Small Wind Turbines: A Near Wake Region Study	Ojing Siram		5:30 to 6:00							

Session Room 7	Track 11 - 02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 11-01	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Brahmaputra Audi Ground floor, BLDG #12	1:45 to 2:15	Analytics & Digital Solutions (incl. AI/ML) for Gas Turbines/Rotating Machinery	118331	Development of Machine Learning Model for Maximum Creep Strain Prediction in Gas Turbine Blades	Rishabh Shrivastava	Anurag Agarwal	4:00 to 4:30	Analytics & Digital Solutions (incl. AI/ML) for Gas Turbines/Rotating Machinery	118037	Towards Use of Structural Equation Modelling in Enumerating Correlation of Qualitative and Quantitative Factors With Manufacturing Part Deviation	Karthik Srinivasan	Sadagoban Chandrasekaran
	2:15 to 2:45		118372	Enhancing Turbine Inlet Temperature Prediction in Single Shaft Combined Cycle Power Plants Using Soft Sensor: A Grey-Box Modelling Approach	Pugalenth Nandagopal		4:30 to 5:00		118279	Method to Backout Load From Strain Gauges Using Machine Learning	Srinivas Chinthapally	
	2:45 to 3:15		118380	Application of Machine Learning Based Meta Models for Predicting Film Cooling Effectiveness in Gas Turbine Blades	Amit Grover		5:00 to 5:30		118325	Data Synthesis Through Deep Generative Models and its Effectiveness in Improving Defect Inspection Models	Ninad Kulkarni	
	3:15 to 3:45		118382	Development of Machine Learning Model to Predict Mechanical Failure of Gas Turbine Disc	Alok Kumar Seth		5:30 to 6:00		118326	A Deep Learning Approach to Build Surrogate Model for Steady State and Transient Metal Temperature Prediction in Gas Turbine	Raj Kumar Soni	

Friday, Dec 8

Room Name	11:30 am - 1:00 pm						2:00 pm - 4:00 pm					
Session Room 1	Tutorial 02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Invited Talk 03 Tutorial 04	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
s Kanter Room Wing BLDG #11	11:30 to 1:00	Tutorial 02		Combustor Design	Dalton Maurya		2:00 to 3:00	Invited Talk 03		Engine Nacelle Structures for Commercial Airplanes	Jaspreet Singh	

Rosabeth Mos 2nd floor, Right							3:00 to 4:00	Tutorial 04		Multi-disciplinary Multi-Point Optimization of a Turbocharger Compressor Wheel	Vinayak Rajan	
	NA											
Session Room 2	Track 02 -03	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 09-1 and Track 10-1	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Charles Handy Room 2nd floor, Left Wing BLDG #11	11:30 to 12:00	Turbines	118444	Effect of Pivot-Shape Modification on Part Clearance Flow Field in Variable Area Turbine Nozzle Vane	Goutam Mandal	Debasis Biswas	2:00 to 2:30	GT Operation and Maintenance (Services, predictive maintenance, remote diagnostics)	117887	A Solution for Improving Gas Turbine Performance Degradation and Emissions: The "GT Auto Tuner" Product	Mayur Gagnani	Suresh MVJJ
	12:00 to 12:30		118408	Secondary Losses Mitigation using End-Wall Contouring for LPT Nozzle Vane Cascade	Shivkumar Koiri Maurya		2:30 to 3:00		117900	Inlet Air Filtration Effects on Degradation and Life Cycle Costs in Gas Turbine Combined Cycle Power Plants: A Comparative Study	Pertik Kamboj	
	12:30 to 1:00		118416	Characteristics of Laminar Separation Bubble With Varying Leading-Edge Shapes and Deflections of the Trailing-Edge Flap	Nagabhushana Rao Vadlamani		3:00 to 3:30		118386	Spray Interaction in Flat-Fan Injectors and its Effect on Cleaning Effectiveness of Gas Turbine Online Water Washing System	Kiran Kumar	
	NA						3:30 to 4:00	Additive & advanced Manufacturing (including material, Coatings, Composites, CMCs)	118314	Gas Turbine Nozzle Repair by Additive Manufacturing	Mihir Patel	
Session Room 3	Tutorial 03	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 01-03	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Katherine Briggs Room 1st floor, Left Wing BLDG #11	NA						2:00 to 2:30	Compressors, Fans and Pumps	118341	Testing and Modeling of Generalized K-Omega Turbulence Model and Validation on Highly Efficient Centrifugal Compressor (HECC)	Shivani Ranjan	Manas M P
	2:30 to 4:00	Tutorial 03		Turbine Design	Debasis Biswas	2:30 to 3:00	118395		Performance Prediction of a Swash Plate Piston Pump Using 3D CFD Simulation	Raghu Vamsee G		
						3:00 to 3:30	118453		Conceptualization of a Portable Vacuum Pumping System for Dead Volume Dispensing of Crude Oil From Crude Oil Storage Tanks	MANOSH Das		
						3:30 to 4:00	118691		A New Perspective on Measuring Compressor Characteristics	Zhenhao Jing		
Session Room 4	Track 04 -03	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 04 - 04	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair

Joseph Luft Room 1st floor, Left Wing BLDG #11	11:30 to 12:00	Combustion, Fuels and Emissions	118470	Internal and External Flow Characteristics on Variation of Swirl Strength for a Fuel Flexible Injector for Micro Gas Turbine Engines	Abhishek Verma	Jayadeep Basani	2:00 to 2:30	Combustion, Fuels and Emissions	118555	Effects of the Swirl Field on the Structure, Planner Drop Sizing and Large-Scale Instabilities of Flow-Blurring Spray	Santanu De	Michael Sell
	12:00 to 12:30		118487	The Effect of H2 Addition on CNG/H2-Air Flame Shape Topology in a Lean Premixed Swirl Stabilized Gas Turbine Combustor	Santanu De		2:30 to 3:00		118653	Exploring the Effects of Synthetic Gaseous Fuels on the Performance, Combustion, and Emission Characteristics of a Dual Fuel Diesel Engine	Samar Das	
	12:30 to 1:00		118496	Effects of Recess Length of Bluff Body on Lean-Premixed Swirl-Stabilized CNG-Air Flame Structure	Santanu De		3:00 to 3:30		118428	Numerical Simulation and Aerodynamics of a Fuel Flexible Injector for Micro-Gas Turbine Engines	Shivam Uniyal	
	NA					3:30 to 4:00	117903		An Economic Evaluation of Post CO2 Capture Techniques for Natural Gas Combined Cycle Power Plants	Surendra Singh		
Session Room 5	Track 05-02 and Track 06 -02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 08-01 and Track 11-03	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Harold Ingham Room 1st floor, Left Wing BLDG #11	11:30 to 12:00	Structures and Dynamics	118412	Influence of Mechanical Properties on Compressor Rotor Blade Fatigue Life : A Reliability Approach	S. Esakki Muthu	Srikanth Method	2:00 to 2:30	Emerging Technologies (Hybrid Electric Propulsion, UAV,...)	118409	A Strategic Design Approach for Future Fuselage BLI Engine Based Hybrid Propulsion Engine	Chetan Mistry	Pradeep V
	12:00 to 12:30		118323	Tuning of Natural Frequencies of Aeroengine Compressor Blades Using Spatial Distribution of Ceramic Reinforced Particles Composites Using Multi-Scale Modelling	Dr. Sreedhar Kari		2:30 to 3:00		117639	Design and Multi-Perspective Investigations on Aeroacoustic Noise Reduction Technologies for Anti-Drone Propeller	Vijayanandh Raja	
	12:30 to 1:00		118667	Experimental Investigation of a Concentrated Photovoltaic System Integrated With Water Sprinkler Generating Electricity and Hot Water	Nitin. D Banker		3:00 to 3:30		115175	An Innovative Approach for the Validation of Computational Structural Outcomes of Octocopter's Connection Arms Through Advanced Finite Element Methods	Vijayanandh Raja	
	NA						3:30 to 4:00		Analytics & Digital Solutions (incl. AI/ML) for Gas Turbines/Rotating Machinery	118387	Application of Advanced Sampling Techniques to Handle Class Imbalance in GT Blade Failure Prediction	
Session Room 6	Invited Talk 04	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair	Track 03 -02	Track Name	Paper ID	Paper Title	Author/Presenter	Session Chair
Myers Room ft Wing BLDG #11	11:30 to 12:30	Invited Talk 04		Engine Structural Integrity: Requirements & Challenges	Venkat Ganji		2:00 to 2:30	Heat Transfer	118295	Evaluation of Scaling Formation on Entropy Generation of Flowing Fluid Through Circular Pipe	Onkar Singh	Karthik Srinivasan
							2:30 to 3:00		118463	Efficiency Assessment of Compressed Air Energy Storage System Coupled With Thermal Energy Storage Unit: Review	Mebratu Adamu	

Isabel I 1st floor, Le	NA		3:00 to 3:30	118636	Feasibility Study of Heat Transfer Enhancement in Solar Photovoltaicthermal Systems Using FDM Generated Novel Curved Thermal Absorbers	Akash Kamble	
	NA		Empty				