COBEM 2025
Chair: Flavia Zinani

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	2356	Numerical Analysis of Vertical Biphasic Flow	Mateus Dos Santos	PG3	CFD
Tuesday	14:00 - 15:30	2234	Dipolar and hydrodynamic interactions in a dilute system of neutrally buoyant particles in sedimentation	Arthur Oliveira	PG3	CFD
Tuesday	14:00 - 15:30	1709	CFD Simulation in the Aircraft Painting Process	Tiago Augusto Santiago Vieira	PG3	CFD
Tuesday	14:00 - 15:30	951	Study of the pattern of pollutant dispersion in an urban area in the center of Vit—ria/ES	Samuel Rebelo Zechinelli	PG3	CFD
Tuesday	14:00 - 15:30	1637	Two-Dimensional Hydrodynamic Simulation of Particle Stratification in UASB Reactors Using the k-epsilon Turbulence Model	Ygor Ares Monteiro	PG3	CFD
Tuesday	14:00 - 15:30	2449	Simulation of Laminar Flow over Periodic Hills Using a Fourier Pseudospectral-Immersed Boundary Approach	Thiago Fernando Santiago de Freitas	PG3	CFD

COBEM 2025
Chair: Marco Antonio Luersen

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	2691	Specific Performance of Bodies Built by Additive Manufacturing for FEA	Fabio Raia	PG6	Structural Integrity
Tuesday	8:00 - 9:30	2835	Numerical investigation of misalignment effects on draft gear stress response	Vitor Pena de Almeida	PG6	Structural Integrity
Tuesday	8:00 - 9:30	2241	Failure Analysis of Cast Martensitic Stainless Steel Refining Tools in the Cellulose Pulp Production	alexandre nakayama	PG6	Structural Integrity
Tuesday	8:00 - 9:30	241	FEM Analysis of Stress Concentration Induced by Casting Defects in Real Components Mapped via Digital Scanning	Vitor Pena de Almeida	PG6	Structural Integrity
Tuesday	8:00 - 9:30	78	Structural and Engineering Assessments of a Grab Ship Unloader	Flavio Lasmar	PG6	Structural Integrity
Tuesday	8:00 - 9:30	1226	Damage Detection Using Modal Curvature Difference and Bayesian Data Fusion	C‡ssio Buss Mainardes	PG6	Structural Integrity

COBEM 2025
Chair: Joel Karp

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	1522	Computational analysis of fluid dynamics behavior and optimization of a burner for residual gases originating from wood carbonization	João Victor Meyer	PG4	CFD
Tuesday	14:00 - 15:30	1619	EFFECTS OF OXYGEN CONCENTRATION AND OBSTRUCTIVE ELEMENTS ON THE DYNAMICS AND STABILITY OF PYROLYSIS GAS FLAMES IN COMBUSTION CHAMBERS	Ricardo Stanzani Toledo	PG4	CFD
Tuesday	14:00 - 15:30	450	OPTIMIZATION OF THE FUEL SYSTEM FOR INTERNAL COMBUSTION ENGINES ON COMPETITION VEHICLES	Felipe Lazari Faraco	PG4	CFD
Tuesday	14:00 - 15:30	375	TURBULENCE ANALYSIS OF ELECTRONICS EQUIPMENT COOLING	Paula Yado	PG4	CFD
Tuesday	14:00 - 15:30	1395	Numerical Analysis of Flow in Microchannels for Biodiesel Synthesis	Gustavo Rabello dos Anjos	PG4	CFD
Tuesday	14:00 - 15:30	1562	Direct Numerical Simulation of Turbulent Transition of a Blasius Flow over a Heated Plate	Ítalo Markus	PG4	CFD

COBEM 2025
Chair: Joel R. Karp

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	1522	Computational analysis of fluid dynamics behavior and optimization of a burner for residual gases originating from wood carbonization	João Victor Meyer	PG4	CFD
Tuesday	14:00 - 15:30	1619	EFFECTS OF OXYGEN CONCENTRATION AND OBSTRUCTIVE ELEMENTS ON THE DYNAMICS AND STABILITY OF PYROLYSIS GAS FLAMES IN COMBUSTION CHAMBERS	Ricardo Stanzani Toledo	PG4	CFD
Tuesday	14:00 - 15:30	450	OPTIMIZATION OF THE FUEL SYSTEM FOR INTERNAL COMBUSTION ENGINES ON COMPETITION VEHICLES	Felipe Lazari Faraco	PG4	CFD
Tuesday	14:00 - 15:30	375	TURBULENCE ANALYSIS OF ELECTRONICS EQUIPMENT COOLING	Paula Yado	PG4	CFD
Tuesday	14:00 - 15:30	1395	Numerical Analysis of Flow in Microchannels for Biodiesel Synthesis	Gustavo Rabello dos Anjos	PG4	CFD
Tuesday	14:00 - 15:30	1562	Direct Numerical Simulation of Turbulent Transition of a Blasius Flow over a Heated Plate	Ítalo Markus	PG4	CFD

COBEM 2025
Chair: Thamiris Lima Costa

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	75	Integrating for enhanced environmental monitoring in laboratory and industrial settings.	Lidomar Becker	PG7	Sensors
Tuesday	8:00 - 9:30	348	Monitoring 3D printing conditions: sound signal analysis and extreme value statistics for detecting failures	Fabio Isaac Ferreira	PG7	Sensors
Tuesday	8:00 - 9:30	589	A review of collision avoidance in autonomous robots: sensor technologies and algorithms for static and dynamic obstacles	Eduardo Wisbecki	PG7	Sensors
Tuesday	8:00 - 9:30	1222	Development of a torque measurement system using a servomotor	Hugo Cesar Coelho Michel	PG7	Sensors
Tuesday	8:00 - 9:30	1517	Development and characterization of the NAASCAR prototype for low-cost structural health monitoring	Wilcielley Castro	PG7	Sensors
Tuesday	8:00 - 9:30	2703	Automated brake pad testing on a bench test platform with real-time remote monitoring	Andrea Piga Carboni	PG7	Sensors

COBEM 2025
Chair: Ricardo Torres

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	471	Residual stress in-depth profile evolution along a gear manufacturing chain	Matheus Santos	PG15	laterials Characterization
Tuesday	14:00 - 15:30	1227	COMPARATIVE EXPERIMENTAL INVESTIGATION OF QUENCHING AND TEMPERING VERSUS LASER HEAT TREATMENT IN AISI 4140 STEEL GEARS FOR AGRICULTURAL ELECTROMOBILITY	Bruno de Oliveira Magalhães	PG15	laterials Characterization
Tuesday	14:00 - 15:30	2409	A LOOK OF THE NITROGEN EXPANDED PHASES FORMATION IN LOW TEMPERATURE PLASMA NITRIDED UNS S32750 DUPLEX STAINLESS STEEL SURFACES*	Silvio Francisco Brunatto	PG15	laterials Characterization
Tuesday	14:00 - 15:30	2582	Analysis of the Electrical and Mechanical Behavior of 6000 Aluminum Alloy Modified with Titanium Content for Application in Electrical Transmission and Distribution	Athus Igor Castro Holanda	PG15	laterials Characterization
Tuesday	14:00 - 15:30	1320	NON-DESTRUCTIVE TESTING OF RENEWABLE MATERIAL COMPOSITES Ð AN APPROACH WITH ACTIVE THERMOGRAPHY	Ulrike Siemer	PG15	laterials Characterization
Tuesday	14:00 - 15:30	1764	COMPARATIVE STUDY OF MANUAL AND AUTOMATED TIG WELDING IN THE MANUFACTURE OF THIN STAINLESS STEEL AISI 304 WATER TANKS	Luis Antonio Oliveira Araujo	PG15	laterials Characterization

COBEM 2025
Chair: Paulo Pedro Kenedi

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	370	Machine Learning-Based SHM for damage detection in clamped metallic beams using Frequency Response Functions	Luis Antonio Oliveira Araujo	PG11	Elasticity
Tuesday	14:00 - 15:30	1613	A shot peening finite simplified element model for residual stress fields analysis	Otavio Augusto Gallina	PG11	Elasticity
Tuesday	14:00 - 15:30	451	Numerical and Experimental Analysis of CFRP Sandwich Panels Under Different Loading Conditions	Ana Claudia Macedo Vianna Miachon	PG11	Elasticity
Tuesday	14:00 - 15:30	2172	The Influence Of Coherency Stress On Phase Transformations In Metal Hydrides: A Continuum Mechanochemical Model	Natanaele Soares Medeiros	PG11	Elasticity
Tuesday	14:00 - 15:30	743	Experimental Analysis of Creep Preconditioning Effects on the Rupture Performance of HMPE Fibers for Offshore Mooring Ropes	Daniel Magalh‹es da Cruz	PG11	Viscoelasticity
Tuesday	14:00 - 15:30	1536	Evaluation of constitutive models for sealing systems in flexible pipe end fittings	Matheus Schueler de Carvalho	PG11	Viscoelasticity

COBEM 2025
Chair: Rafael Catapan

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	1925	Droplet Vaporization Study Using Molecular Dynamics for Combustion Chamber Design	Maurício Sá Gontijo	PGMEC1	Spray
Tuesday	8:00 - 9:30	1143	Evaluation of a Piezoelectric Injector for Diesel Engines Using Ethanol	Vinicius Guerra Moreira	PGMEC1	Spray
Tuesday	8:00 - 9:30	2610	Computational Investigation of Ethanol Spray Characteristics in a Bi-Fuel Turbocharged SI Engine Using a Bi-Jet Injector	Felipe Diniz	PGMEC1	Spray
Tuesday	8:00 - 9:30	2173	Enclosed Methanol Pool Fires: Influence Of The Heat Feedback From The Internal Surfaces On The Burning Behavior	Ricardo Machado Leite	PGMEC1	Fire Science
Tuesday	8:00 - 9:30	2086	Experimental Study Of Radiative Heat Transfer In Natural-Gas/Hydrogen Flames And Comparison With Theoretical Models	Pedro Bergmann	PGMEC1	Fire Science
Tuesday	8:00 - 9:30	481	Impact of Torrefaction on Biomass Combustion: A Bench-Scale Evaluation	Millos Julian Enrique Jinete Torres	PGMEC1	Solid Fuel

COBEM 2025
Chair: Paulo Cordaro

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	1915	Development and evaluation of magnesium-nickel metal hydrides for hydrogen storage: a bibliometric analysis using VOSViewer	Matheus José Cunha De Oliveira	EQ Aud2	Renewable
Tuesday	14:00 - 15:30	1873	Trackling exergetic efficiency of solid oxide electrolysis electrolyzer	Eduardo José Cidade Cavalcanti	EQ Aud2	Renewable
Tuesday	14:00 - 15:30	1980	Clean-Hydrogen Obtainment as feedstock for Nitrogen-Fertilizers by a Hybrid System Using Hydroelectric Supply, Electrolysis and Ethanol Steam Reforming	Paulo Cordaro	EQ Aud2	Renewable
Tuesday	14:00 - 15:30	1346	Steady-State and Dynamic Analysis of a 350 W Proton Exchange Membrane Fuel Cell: Experimental Insights for Model Validation	Marcus Vinícius Pedron Carneiro	EQ Aud2	Renewable
Tuesday	14:00 - 15:30	321	Hydrogen Bubble Dynamics Based On Velocity Fields During Saltwater Electrolysis	Jeferson Diehl de Oliveira	EQ Aud2	Renewable
Tuesday	14:00 - 15:30	1361	Hydrogen evolution in planar electrodes: Current density effects and high-speed visualization	Marcus Vinícius Pedron Carneiro	EQ Aud2	Renewable

COBEM 2025
Chair: Leandro Joao da Silva (1)

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	2570	Dissimilar welding of Ti6Al4V/Al7075-T6 alloys using the GMAW-STT process without the formation of an intermetallic layer.	Eduardo Pereira da Silva	CT Atos	Union
Tuesday	14:00 - 15:30	5	INFLUæNCIA DA TAXA DE SUBIDA DA CORRENTE NA REGULARIDADE DO PROCESSO MIG/MAG POR CURTO-CIRCUITO	Weslei Rodrigues Niz	CT Atos	Union
Tuesday	14:00 - 15:30	1966	Evaluation of the use of weaving technique on the morphology of weld beads produced by the PTA-P process	Kamila Borba Silva Zanzi	CT Atos	Union
Tuesday	14:00 - 15:30	414	STUDY OF DIFFUSION BONDING PARAMETERS FOR 304 STAINLESS STEEL FLAT LOOP THERMOSYPHON	Júlia de Oliveira Noldin	CT Atos	Union
Tuesday	14:00 - 15:30	490	PRELIMINARY STUDY OF TIG WELDING WITH DUAL GAS SHIELDING	Tiago Vieira da Cunha	CT Atos	Union

COBEM 2025
Chair: Iais Visnadi

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	1607	Modal Analysis In Blades Of Small Wind Turbines Using A Collection System And Low-Cost Accelerometers	Gustavo de Novaes Pires Leite	Adm Leo	ural Dynamics and Vibrations
Tuesday	8:00 - 9:30	1599	Emulation Of Wind Turbine Failures Using Vibration Measurement Through Low-Cost Data Acquisition	Gustavo de Novaes Pires Leite	Adm Leo	ural Dynamics and Vibrations
Tuesday	8:00 - 9:30	1963	Vibration attenuation in railways using seismic metamaterials	Bruno César Cunha Araújo	Adm Leo	ural Dynamics and Vibrations
Tuesday	8:00 - 9:30	1317	Multiaxial Fatigue Analysis In Drill Strings And Parameter Evaluation	Sandro Valente	Adm Leo	ural Dynamics and Vibrations
Tuesday	8:00 - 9:30	1293	Numerical Modeling Of Plates Via The Spectral Element Method	Maurício Menegatti Andrade	Adm Leo	ural Dynamics and Vibrations
Tuesday	8:00 - 9:30	1088	Systematic Review of modal analysis of transmission lines using machine learning techniques	Laura Nasser Silva	Adm Leo	ural Dynamics and Vibrations

COBEM 2025
Chair: Marcelo Souza de Castro

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	448	Development of a Core-Annular Flow Classifier: A Hybrid Approach of Computational Fluid Dynamics and Machine Learning	Camila Oliveira dos Santos Borges	PG6	Multi-phase
Tuesday	14:00 - 15:30	1215	AN EXPERIMENTAL INVESTIGATION OF THE FLOW PATTERNS OF ASCENDING WATER-AIR FLOWS IN A PLATE-TYPE HEAT EXCHANGER	Bruno Coelho	PG6	Multi-phase
Tuesday	14:00 - 15:30	728	PRESSURE DROP ANALYSIS FOR A 5 X 5 ROD BUNDLE	Roberta Fatima Neumeister	PG6	Multi-phase
Tuesday	14:00 - 15:30	2803	Experimental study of vertically downward gas-liquid two-phase churn flow	Rigoberto Morales	PG6	Multi-phase
Tuesday	14:00 - 15:30	2438	METHODOLOGY TO PREDICT THE FLUID INJECTION FACTOR FROM THE EXPERIMENTAL AND NUMERICAL CHARACTERIZATION OF THE FLUSHING PROCESS IN HORIZONTAL PIPE	Elcilane Freitas	PG6	Multi-phase
Tuesday	14:00 - 15:30	2590	Validation of One-dimensional Computational Simulations of Gas-Liquid Two-Phase Flow in Horizontal and Slightly Inclined Pipes	Cristhian Alvarez Pacheco	PG6	Multi-phase

COBEM 2025
Chair: Marcos Paulo Nostrani

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	104	Air quality monitoring system for small poultry houses located in tropical regions	Davyd Reis	PG7	Sensors
Tuesday	14:00 - 15:30	334	Automated system for alkalinity and VFAS monitoring in anaerobic bioreactors	Erick Lopes	PG7	Sensors
Tuesday	14:00 - 15:30	373	Modelling and design of a biogas system	Valeria Calderon	PG7	Sensors
Tuesday	14:00 - 15:30	157	Identifying the criticality of the lubricating oil condition of marine Diesel engines using machine learning and data augmentation techniques.	Emilly Lima	PG7	AI
Tuesday	14:00 - 15:30	1757	Instrumented platform for experimental testing of a modular solution for microgeneration of electrical energy	Sabrina Knoll Godoy Ilha	PG7	Fluid
Tuesday	14:00 - 15:30	1936	Development of a dynamic model for a pressurized hydraulic reservoir in aircraft applications	Henrique Frassetto	PG7	Fluid

COBEM 2025
Chair: Marco Bittencourt

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	1429	Mathematical Modeling and Analysis of Vibrations in Rollerscreen Sieves for Iron Ore Processing	Marcos Vinícius Issa	PG11	Numerical Methods
Tuesday	8:00 - 9:30	114	Modeling Damage Propagation in Viscoelastic Materials Using Micromechanics Theory	Cassio Aguiar	PG11	Elasticity
Tuesday	8:00 - 9:30	2374	Reduction of Residual Stresses as a Result of a Proper Sequence of Imposed Curvatures	Paulo Pedro Kenedi	PG11	Elasticity
Tuesday	8:00 - 9:30	1074	Representation of Tension-Compression Material Asymmetry using a Degradation Tensor based Phase Field Model	Marco Bittencourt	PG11	Elasticity
Tuesday	8:00 - 9:30	631	Strain Energy Model Parameter Estimation Using Levenberg-Marquardt Least Squares Method	Lucas Macedo Barboza	PG11	Elasticity
Tuesday	8:00 - 9:30	1572	Influence of steel fibers on the mechanical behavior of prestressed concrete sleepers	Barbara Gallo	PG11	Elasticity

COBEM 2025
COBEM 2025
Chair: Julio Cesar Passos

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:15	30	Review Of Energy Balance Models For Heated Surface Droplet Impacts	Marina Feitosa	EQ Aud1	Heat and Mass
Tuesday	14:00 - 15:15	162	A Comprehensive Review and Analysis of Heat Transfer Coefficient Correlations for Supercritical CO2	Victor Gouveia Ferrares	EQ Aud1	Heat and Mass
Tuesday	14:00 - 15:15	752	A bench test for the thermal evaluation of the Continously Variable Transmission (CVT) used at the BAJA SAE competitions.	Igor Rode	EQ Aud1	Heat and Mass
Tuesday	14:00 - 15:15	2157	Line-By-Line Emissivity Analysis Of Supercritical Co2 For Brayton Cycle Conditions: Real Gas Effects Versus Ideal Gas	Vitor Olson	EQ Aud1	Heat and Mass
Tuesday	14:00 - 15:15	641	A Finite Element Method formulation for 2D time fractional subdiffusion equation	Luis Gustavo Doblins Kramer	EQ Aud1	Heat and Mass

COBEM 2025
Chair: Glauber Cruz

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	830	CFD Simulations for Optimization of Cyclones Associated in Series	Guilherme Maciel	PGMEC1	Pyrolisis
Tuesday	14:00 - 15:30	1793	Exploring The Synergistic Effects Of Sugarcane Residue And Algae Co-Pyrolysis: A Kinetic Equation-Based Simulation Approach.	Ingrid Lopes Motta	PGMEC1	Pyrolisis
Tuesday	14:00 - 15:30	1644	Three Dimensional Cfd Study Of Reciprocating Grate Biomass Boiler	Pedro Lucas Zamataro da Silva	PGMEC1	Pyrolisis
Tuesday	14:00 - 15:30	929	Experimental Analysis of the Use of Pyrolytic Oil from End-of-Life Tires in Internal Combustion Engines	Linicker Santana	PGMEC1	Pyrolisis
Tuesday	14:00 - 15:30	1224	Moss Green Hydrogen Production Potential Through Brazilian Biomedical Waste Plasma Gasification	Regina Franciélle Silva Paulino	PGMEC1	Pyrolisis

COBEM 2025
Chair: Gustavo Halila

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	2122	Wall Model Effects In Low Reynolds Number Airfoil Flows With Laminar Separation Bubble Using The Lattice-Boltzmann Method	Bernardo Luiz Rocha Ribeiro	Adm Nobre	Aerodynamics
Tuesday	8:00 - 9:30	1058	Analysis And Characterization Of Free Stream Turbulence For Direct Numerical Simulations Of Separated Flows	Renan Trevizan de Melo	Adm Nobre	Aerodynamics
Tuesday	8:00 - 9:30	1905	Effects Of Coherent Motions On Momentum Transfer In The Turbulent Boundary Layer Of A Naca0012 At High Angle Of Attack	Leandro Jœnio Oliveira Silva	Adm Nobre	Aerodynamics
Tuesday	8:00 - 9:30	1072	Analysis Of The Coherent Structures In The Separated Flow Over The S809 Airfoil	Daniel Sampaio Souza	Adm Nobre	Aerodynamics
Tuesday	8:00 - 9:30	2016	Active Flow Control For Mitigating Dynamic Stall In Vertical Axis Wind Turbines	Lucas Feitosa de Souza	Adm Nobre	Aerodynamics
Tuesday	8:00 - 9:30	2252	Decomposition Of Surface Pressure From Jet-Wing Interaction	Filipe Dutra da Silva	Adm Nobre	Aerodynamics

COBEM 2025
Chair: Joao Luiz F. De Azevedo

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	1350	On The Applicability Of High-Order Fr/Cpr Schemes For Performing Numerical Aerodynamic Analyses	Frederico Bolsoni Oliveira	Adm Nobre	Aerodynamics
Tuesday	14:00 - 15:30	811	Investigation Of Nonlinear Eddy-Viscosity Models In Transonic Aerodynamics	Murilo Bitencourt	Adm Nobre	Aerodynamics
Tuesday	14:00 - 15:30	161	A Study Of The Radiative Heat Flux For The Fire Ii Hypersonic Reentry Flows	Gibson De Marchi Poltronieri	Adm Nobre	Aerodynamics
Tuesday	14:00 - 15:30	2829	A Comparative Analysis Of The Solutions Obtained From Boundary-Layer And Navier-Stokes Equations For Compressible Flows Over Axisymmetric Geometries	Rômulo Bessi Freitas	Adm Nobre	Aerodynamics
Tuesday	14:00 - 15:30	604	Cfd-Based Analysis Of Dual-Horn Ice Geometry Effects On Aerodynamic Coefficients	Eden José da Rocha Junior	Adm Nobre	Aerodynamics
Tuesday	14:00 - 15:30	971	Displacement Transfer Methods For Fluid-Structure Interaction In Wing Configurations	João Bandeira de Melo Netto	Adm Nobre	Aerodynamics

COBEM 2025
Chair: Flavia Zinani (1)

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	2356	Numerical Analysis of Vertical Biphasic Flow	Mateus Dos Santos	PG3	CFD
Tuesday	14:00 - 15:30	2234	Dipolar and hydrodynamic interactions in a dilute system of neutrally buoyant particles in sedimentation	Arthur Oliveira	PG3	CFD
Tuesday	14:00 - 15:30	1709	CFD Simulation in the Aircraft Painting Process	Tiago Augusto Santiago Vieira	PG3	CFD
Tuesday	14:00 - 15:30	951	Study of the pattern of pollutant dispersion in an urban area in the center of Vit—ria/ES	Samuel Rebelo Zechinelli	PG3	CFD
Tuesday	14:00 - 15:30	1637	Two-Dimensional Hydrodynamic Simulation of Particle Stratification in UASB Reactors Using the k-epsilon Turbulence Model	Ygor Ares Monteiro	PG3	CFD
Tuesday	14:00 - 15:30	2449	Simulation of Laminar Flow over Periodic Hills Using a Fourier Pseudospectral-Immersed Boundary Approach	Thiago Fernando Santiago de Freitas	PG3	CFD

COBEM 2025
Chair: Diego de Lima Sousa

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	760	Thermoeconomic Assessment of a Cold Plate Cooling System for Electric Ship Applications	Cristofer Marques	EQ Aud2	Thermo-Economic
Tuesday	8:00 - 9:30	1401	Identification of Thermal Sources employing Bayesian Inference via STAN	Carlos Tadeu Pagani Zanini	EQ Aud2	omputational Intelligence
Tuesday	8:00 - 9:30	2141	Exergoeconomic Analysis Of A Green Hydrogen Energy Plant With A 10 Kw Power Output	Eduarda Zeni Neves	EQ Aud2	Thermo-Economic
Tuesday	8:00 - 9:30	2384	A thermoeconomic analysis of the pressure ratio effect on a gas turbine	Cristofer Marques	EQ Aud2	Thermo-Economic
Tuesday	8:00 - 9:30	2647	Thermoeconomic Analysis of CCGT-CSP Power Plants fueled by Natural Gas and Hydrogen	Lucas Urgal Tavares Ribeiro	EQ Aud2	Thermo-Economic

COBEM 2025
Chair: Cristiano Bigonha

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	138	EXPERIMENTAL EVALUATION OF BUBBLE DYNAMICS PARAMETERS FOR VERTICAL UPWARD SUBCOOLED FLOW BOILING OF WATER	Maurício Marinheiro	EQ Aud1	Heat and Mass
Tuesday	8:00 - 9:30	1259	"Experimental Investigation of Flow Pattern Transitions in Air-Water Flow in Vertical Tubes with Forced Vibration	Fabio Toshio Kanizawa	EQ Aud1	Heat and Mass
Tuesday	8:00 - 9:30	1233	Fluid Velocity Estimation In Two-Phase Flows Through Non-Intrusive Means: Preliminary Feasibility Study	Kelvin Guessi Domiciano	EQ Aud1	Heat and Mass
Tuesday	8:00 - 9:30	2184	DESIGN AND ANALYSIS OF SHELL-TUBE HEAT EXCHANGERS USING THE NTU METHOD AND CFD COMPUTATIONAL SIMULATION APPLIED TO THE DAIRY PASTEURIZATION PROCESS	Fabiano Barros de Oliveira	EQ Aud1	Heat and Mass
Tuesday	8:00 - 9:30	628	Study of the Boundary Layer in Cylindrical Bodies: Hydrodynamic	Hyago Rosa	EQ Aud1	Heat and Mass
Tuesday	8:00 - 9:30	894	Thermal comfort in social housing: assessment of the effects of humidity and temperature	Marcos Batistella Lopes	EQ Aud1	Heat and Mass

COBEM 2025
Chair: Carlos Bavastri

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:15	2761	Formation of a Super Attenuation Band in Beams with Moment Resonators: A Modal Perspective	Vinicius Germanos Cleante	Adm Leo	ural Dynamics and Vibrations
Tuesday	14:00 - 15:15	668	Development Of A Mems-Based Data Acquisition System For Operational Modal Analysis Of Aeronautical Structures	Artur Araujo	Adm Leo	ural Dynamics and Vibrations
Tuesday	14:00 - 15:15	1542	Dynamic behavior of glued beams accounting for joint uncertainty	Thiago de Paula Sales	Adm Leo	ural Dynamics and Vibrations
Tuesday	14:00 - 15:15	2425	Study of Metamaterial Positioning for Vibration Attenuation in a Wind Tower with Soil-Structure Interaction	Vinícius Gabriel Peixoto Borges	Adm Leo	ural Dynamics and Vibrations
Tuesday	14:00 - 15:15	2813	Neural Networks Applied To Unbalance Analysis: A Literature Review	Gladson Willian Pereira Rodrigues	Adm Leo	ural Dynamics and Vibrations

COBEM 2025
Chair: Americo Cunha Jr.

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	14:00 - 15:30	421	The Use Of Lyapunov Exponent To Nonlinear Stability Analysis Of A Whirl Flutter In A Rotor/Nacelle System	Isadora da Luz	PG1	ICONNE
Tuesday	14:00 - 15:30	1817	Describing functions for nonlinear aeroelastic analysis involving control surface freeplay and damper	João Terilli	PG1	ICONNE
Tuesday	14:00 - 15:30	1260	Fractional Calculus in Automotive Engines: Remarks About Dynamic Analysis of Hydraulic Mounts	Murilo Filipus	PG1	ICONNE
Tuesday	14:00 - 15:30	1418	Dynamics of a fractionally damped piezoelectric wind energy harvester	Felipe Lima de Abreu	PG1	ICONNE
Tuesday	14:00 - 15:30	331	Multi-objective optimization of non-linear spring pressure for off-road vehicle suspension systems	Fabio Mazzariol Santiciolli	PG1	ICONNE
Tuesday	14:00 - 15:30	1441	Hybrid Techniques for Nonlinear System Identification: Integrating Hilbert Transform and Sparse Regression	Paulo José Paupitz Gonçalves	PG1	ICONNE

COBEM 2025
Chair: José Manoel Balthazar

Day	Hour	Paper ID	Paper Title	Presenter	Room	SubArea
Tuesday	8:00 - 9:30	464	Effects Of Span Interaction And Adjacent Beams On Column Stability	Eduardo Arnas Soares	PG1	ICONNE
Tuesday	8:00 - 9:30	1837	Unusual dynamics of an inverted pendulum with stochastic parameters	Sergei Borzunov	PG1	ICONNE
Tuesday	8:00 - 9:30	844	Magnetorheological And Conventional Dampers In Automotive Suspensions: Comparing Vibration Comfort And Cost-Effectiveness.	Laura Mayumi Bassani Nozaki	PG1	ICONNE
Tuesday	8:00 - 9:30	1067	Nonlinear Control Applied in a Mutating Autocatalyst	Angelo Marcelo Tusset	PG1	ICONNE
Tuesday	8:00 - 9:30	1048	Time domain analysis of the vibration of a horizontal axis wind turbine blade	Luan Jose Franchini Ferreira	PG1	ICONNE
Tuesday	8:00 - 9:30	411	Numerical Nonlinear Analysis of Large Cable Roof Structures Subjected to Random Wind Excitation	Olivia Correa	PG1	ICONNE