

ROOM 1 (Salão Real)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30		Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Computational Fluid Dynamics - 0595	Computational Fluid Dynamics - 0007	Computational Fluid Dynamics - 0882	Computational Fluid Dynamics - 0365
09:45 – 10:00		Computational Fluid Dynamics - 0621	Computational Fluid Dynamics - 0456	Computational Fluid Dynamics - 0877	Computational Fluid Dynamics - 0659
10:00 – 10:15		Computational Fluid Dynamics - 0104	Computational Fluid Dynamics - 0416	Computational Fluid Dynamics - 0656	Computational Fluid Dynamics - 0606
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Computational Fluid Dynamics - 0055	Computational Fluid Dynamics - 0121	Computational Fluid Dynamics - 0067	Computational Fluid Dynamics - 0095
11:00 – 11:15		Computational Fluid Dynamics - 0193	Computational Fluid Dynamics - 0134	Computational Fluid Dynamics - 0323	Computational Fluid Dynamics - 0356
11:15 – 11:30		Computational Fluid Dynamics - 0322	Computational Fluid Dynamics - 0345	Computational Fluid Dynamics - 0262	Computational Fluid Dynamics - 0466
11:30 – 11:45		Computational Fluid Dynamics - 0582	Computational Fluid Dynamics - 0394	Computational Fluid Dynamics - 0184	Computational Fluid Dynamics - 0393
11:45 – 12:00		Computational Fluid Dynamics - 0670	Computational Fluid Dynamics - 0909	Computational Fluid Dynamics - 0890	Computational Fluid Dynamics - 0679
12:00 – 12:15		Computational Fluid Dynamics - 0590	Computational Fluid Dynamics - 0238	Computational Fluid Dynamics - 0117	Computational Fluid Dynamics - 0542
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5		
15:00 – 15:15		Computational Fluid Dynamics - 0065	Computational Fluid Dynamics - 0093		
15:15 – 15:30		Computational Fluid Dynamics - 0198	Computational Fluid Dynamics - 0094		
15:30 – 15:45		Computational Fluid Dynamics - 0544	Computational Fluid Dynamics - 0829		
15:45 – 16:00	Registration	Computational Fluid Dynamics - 0535	Computational Fluid Dynamics - 0641	Visit: Iguazu Falls or Itaipu	
16:00 – 16:15		Computational Fluid Dynamics - 0584	Computational Fluid Dynamics - 0395		
16:15 – 16:30					
16:30 – 18:00		Coffee break + Poster Session	Coffee break + Poster Session		
18:00 – 18:45	Opening Ceremony				
18:45 – 19:45	Keynote Lecture 1	ABCM Committee	ABCM Plenary		
19:45	Cocktail Reception			Conference Dinner	

ROOM 2 (Salão Mercosul)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30		Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Multi-phase Flow - 0520	Multi-phase Flow - 0371	Instrumentation and Experiments - 0049	Multi-phase Flow - 0218
09:45 – 10:00		Multi-phase Flow - 0177	Multi-phase Flow - 0475	Instrumentation and Experiments - 0695	Multi-phase Flow - 0102
10:00 – 10:15		Multi-phase Flow - 0350	Multi-phase Flow - 0691	Instrumentation and Experiments - 0146	Multi-phase Flow - 0103
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Multi-phase Flow - 0331	Multi-phase Flow - 0213	Instrumentation and Experiments - 0246	Multi-phase Flow - 0147
11:00 – 11:15		Multi-phase Flow - 0088	Multi-phase Flow - 0594	Instrumentation and Experiments - 0411	Multi-phase Flow - 0091
11:15 – 11:30		Multi-phase Flow - 0506	Multi-phase Flow - 0463	Instrumentation and Experiments - 0468	Multi-phase Flow - 0132
11:30 – 11:45		Multi-phase Flow - 0384	Multi-phase Flow - 0460	Multi-phase Flow - 0191	Instrumentation and Experiments - 0866
11:45 – 12:00		Multi-phase Flow - 0257	Multi-phase Flow - 0276	Multi-phase Flow - 0081	Instrumentation and Experiments - 0558
12:00 – 12:15		Multi-phase Flow - 0478	Multi-phase Flow - 0247	Multi-phase Flow - 0640	Instrumentation and Experiments - 0122
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5		
15:00 – 15:15		Multi-phase Flow - 0078	Instrumentation and Experiments - 0642		
15:15 – 15:30		Multi-phase Flow - 0098	Ind Appl and Turbomachinery - 0202		
15:30 – 15:45		Multi-phase Flow - 0319	Ind Appl and Turbomachinery - 0571		
15:45 – 16:00	Registration	Multi-phase Flow - 0363	Ind Appl and Turbomachinery - 0864	Visit: Iguazu Falls or Itaipu	
16:00 – 16:15		Multi-phase Flow - 0732	Ind Appl and Turbomachinery - 0230		
16:15 – 16:30		Multi-phase Flow - 0269	Ind Appl and Turbomachinery - 0747		
16:30 – 18:00		Coffee break + Poster Session	Coffee break + Poster Session		
18:00 – 18:45	Opening Ceremony				
18:45 – 19:45	Keynote Lecture 1	ABCM Committee	ABCM Plenary		
19:45	Cocktail Reception			Conference Dinner	

ROOM 3 (Salão das Américas)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30	Keynote Lecture 2	Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Rheology and NNFM - 0032	Thermodynamics and Thermal Systems - 0001	Thermodynamics and Thermal Systems - 0259	Rheology and NNFM - 0619
09:45 – 10:00		Rheology and NNFM - 0097	Thermodynamics and Thermal Systems - 0016	Thermodynamics and Thermal Systems - 0309	Rheology and NNFM - 0186
10:00 – 10:15		Rheology and NNFM - 0910	Thermodynamics and Thermal Systems - 0079	Thermodynamics and Thermal Systems - 0316	Rheology and NNFM - 0812
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Rheology and NNFM - 0566	Rheology and NNFM - 0173	Invited talk: Multiscale study of flow and heat transfer across interfaces Prof. Dr. Dongsheng Wen (Technical University of Munich)	Applied Heat and Mass Transfer - 0616
11:00 – 11:15		Rheology and NNFM - 0254	Rheology and NNFM - 0234		Applied Heat and Mass Transfer - 0462
11:15 – 11:30		Rheology and NNFM - 0255	Rheology and NNFM - 0110		Applied Heat and Mass Transfer - 0281
11:30 – 11:45		Rheology and NNFM - 0172	Applied Heat and Mass Transfer - 0019	Thermodynamics and Thermal Systems - 0080	Applied Heat and Mass Transfer - 0142
11:45 – 12:00		Rheology and NNFM - 0324	Applied Heat and Mass Transfer - 0181	Thermodynamics and Thermal Systems - 0089	Applied Heat and Mass Transfer - 0154
12:00 – 12:15		Rheology and NNFM - 0539	Applied Heat and Mass Transfer - 0767	Thermodynamics and Thermal Systems - 0206	Applied Heat and Mass Transfer - 0236
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5	Visit: Iguazu Falls or Itaipu	
15:00 – 15:15		Flow Induced Vibration - 0417	Rheology and NNFM - 0717		
15:15 – 15:30		Flow Induced Vibration - 0751	Rheology and NNFM - 0433		
15:30 – 15:45	Flow Induced Vibration - 0811	Rheology and NNFM - 0009			
15:45 – 16:00	Flow Induced Vibration - 0913	Rheology and NNFM - 0060			
16:00 – 16:15	Theoret and Analytical Modeling - 0827	Rheology and NNFM - 0048			
16:15 – 16:30	Theoret and Analytical Modeling - 0936	Rheology and NNFM - 0039			
16:30 – 18:00	Coffee break + Poster Session	Coffee break + Poster Session			
18:00 – 18:45	Opening Ceremony	ABCM Committee	ABCM Plenary		
18:45 – 19:45	Keynote Lecture 1				
19:45	Cocktail Reception			Conference Dinner	

ROOM 4 (Salão Europa)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30	Keynote Lecture 2	Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Thermodynamics and Thermal Systems - 0412	Biofuels and Renewable Energy - 0014	Biofuels and Renewable Energy - 0313	Biofuels and Renewable Energy - 0532
09:45 – 10:00		Thermodynamics and Thermal Systems - 0419	Biofuels and Renewable Energy - 0101	Biofuels and Renewable Energy - 0317	Biofuels and Renewable Energy - 0545
10:00 – 10:15		Thermodynamics and Thermal Systems - 0427	Biofuels and Renewable Energy - 0150	Biofuels and Renewable Energy - 0325	Biofuels and Renewable Energy - 0578
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Thermodynamics and Thermal Systems - 0449	Biofuels and Renewable Energy - 0151	Biofuels and Renewable Energy - 0337	Biofuels and Renewable Energy - 0622
11:00 – 11:15		Thermodynamics and Thermal Systems - 0465	Biofuels and Renewable Energy - 0212	Biofuels and Renewable Energy - 0339	Biofuels and Renewable Energy - 0663
11:15 – 11:30		Thermodynamics and Thermal Systems - 0491	Biofuels and Renewable Energy - 0275	Biofuels and Renewable Energy - 0773	Biofuels and Renewable Energy - 0672
11:30 – 11:45		Thermodynamics and Thermal Systems - 0507	Biofuels and Renewable Energy - 0744	Biofuels and Renewable Energy - 0388	Biofuels and Renewable Energy - 0674
11:45 – 12:00		Thermodynamics and Thermal Systems - 0543	Biofuels and Renewable Energy - 0423	Biofuels and Renewable Energy - 0311	Biofuels and Renewable Energy - 0718
12:00 – 12:15		Thermodynamics and Thermal Systems - 0575	Biofuels and Renewable Energy - 0312	Biofuels and Renewable Energy - 0440	Biofuels and Renewable Energy - 0735
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5	Visit: Iguazu Falls or Itaipu	
15:00 – 15:15		Invited talk: 2024: 200 years since the publication of Sadi Carnot's reflections Prof. Julio Passos (USFC)	Thermodynamics and Thermal Systems - 0697		
15:15 – 15:30			Thermodynamics and Thermal Systems - 0722		
15:30 – 15:45	Thermodynamics and Thermal Systems - 0579	Thermodynamics and Thermal Systems - 0749			
15:45 – 16:00	Thermodynamics and Thermal Systems - 0634	Thermodynamics and Thermal Systems - 0815			
16:00 – 16:15	Thermodynamics and Thermal Systems - 0639	Thermodynamics and Thermal Systems - 0819			
16:15 – 16:30	Applied Heat and Mass Transfer - 0015	Thermodynamics and Thermal Systems - 0946			
16:30 – 18:00	Coffee break + Poster Session	Coffee break + Poster Session			
18:00 – 18:45	Opening Ceremony	ABCM Committee	ABCM Plenary		
18:45 – 19:45	Keynote Lecture 1				
19:45	Cocktail Reception			Conference Dinner	

ROOM 5 (Salão África)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30	Keynote Lecture 2	Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Aerodynamics - 0116	Applied Heat and Mass Transfer - 0256	Aerodynamics - 0028	Numerical Heat and Mass Transfer - 0344
09:45 – 10:00		Aerodynamics - 0144	Applied Heat and Mass Transfer - 0601	Aerodynamics - 0927	Numerical Heat and Mass Transfer - 0353
10:00 – 10:15		Aerodynamics - 0274	Applied Heat and Mass Transfer - 0075	Aerodynamics - 0875	Numerical Heat and Mass Transfer - 0552
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Aerodynamics - 0347	Applied Heat and Mass Transfer - 0615	Aerodynamics - 0736	Numerical Heat and Mass Transfer - 0618
11:00 – 11:15		Aerodynamics - 0941	Applied Heat and Mass Transfer - 0761	Aerodynamics - 0817	Numerical Heat and Mass Transfer - 0655
11:15 – 11:30		Bioengineering - 0758	Applied Heat and Mass Transfer - 0854	Aerodynamics - 0534	Numerical Heat and Mass Transfer - 0851
11:30 – 11:45		Bioengineering - 0076	Propulsion - 0426	Aerodynamics - 0019	Numerical Heat and Mass Transfer - 0192
11:45 – 12:00		Bioengineering - 0366	Propulsion - 0657	Aerodynamics - 0176	Biofuels and Renewable Energy - 0810
12:00 – 12:15		Bioengineering - 0381	Propulsion - 0501	Aerodynamics - 0629	Biofuels and Renewable Energy - 0857
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5	Visit: Iguazu Falls or Itaipu	
15:00 – 15:15		Propulsion - 0040	Aerodynamics - 0149		
15:15 – 15:30	Propulsion - 0168	Aerodynamics - 0330			
15:30 – 15:45	Propulsion - 0453	Aerodynamics - 0403			
15:45 – 16:00	Propulsion - 0862	Aerodynamics - 0557			
16:00 – 16:15	Propulsion - 0771	Aerodynamics - 0072			
16:15 – 16:30	Propulsion - 0559	Aerodynamics - 0214			
16:30 – 18:00	Coffee break + Poster Session	Coffee break + Poster Session			
18:00 – 18:45	Opening Ceremony				
18:45 – 19:45	Keynote Lecture 1	ABCM Committee	ABCM Plenary		
19:45	Cocktail Reception			Conference Dinner	

ROOM 6 (Salão Ásia)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30	Keynote Lecture 2	Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Heat and Mass Transfer Fundam - 0239	HVAC - 0446	Experimental methods in micro and nano-systems - 0047	Computational Fluid Dynamics - 0577
09:45 – 10:00		Heat and Mass Transfer Fundam - 0445	HVAC - 0607	Experimental methods in micro and nano-systems - 0100	Computational Fluid Dynamics - 0587
10:00 – 10:15		Heat and Mass Transfer Fundam - 0450	Refrigeration - 0609	Experimental methods in micro and nano-systems - 0109	Computational Fluid Dynamics - 0199
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Heat and Mass Transfer Fundam - 0476	Refrigeration - 0085	Experimental methods in micro and nano-systems - 0297	Engine Combustion - 0046
11:00 – 11:15		Heat and Mass Transfer Fundam - 0596	Refrigeration - 0692	Simulation approaches in micro and nanoengineering - 0135	Engine Combustion - 0052
11:15 – 11:30		Heat and Mass Transfer Fundam - 0766	Refrigeration - 0711	Simulation approaches in micro and nanoengineering - 0222	Engine Combustion - 0090
11:30 – 11:45		Heat and Mass Transfer Fundam - 0795	Heat and Mass Transfer Fundamentals - 0010	Simulation approaches in micro and nanoengineering - 0560	Engine Combustion - 0092
11:45 – 12:00		Numerical Heat and Mass Transfer - 0632	Heat and Mass Transfer Fundamentals - 0514		Engine Combustion - 0169
12:00 – 12:15		Computational Fluid Dynamics - 0785	Heat and Mass Transfer Fundamentals - 0623		Engine Combustion - 0684
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5	Visit: Iguazu Falls or Itaipu	
15:00 – 15:15		Numerical Heat and Mass Transfer - 0025	Nuclear Engineering - 0369		
15:15 – 15:30	Numerical Heat and Mass Transfer - 0066	Nuclear Engineering - 0523			
15:30 – 15:45	Numerical Heat and Mass Transfer - 0763	Nuclear Engineering - 0527			
15:45 – 16:00	Numerical Heat and Mass Transfer - 0280	Nuclear Engineering - 0907			
16:00 – 16:15	Numerical Heat and Mass Transfer - 0296	Nuclear Engineering - 0379			
16:15 – 16:30	Numerical Heat and Mass Transfer - 0261	Nuclear Engineering - 0708			
16:30 – 18:00	Coffee break + Poster Session	Coffee break + Poster Session			
18:00 – 18:45	Opening Ceremony				
18:45 – 19:45	Keynote Lecture 1	ABCM Committee	ABCM Plenary		
19:45	Cocktail Reception			Conference Dinner	

ROOM 7 (Salão Oceania)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30		Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Offshore and Petroleum Engineering - 0408	Offshore and Petroleum Engineering - 0332	Offshore and Petroleum Engineering - 0846	Chemical Kinetics and Modeling - 0073
09:45 – 10:00		Offshore and Petroleum Engineering - 0087	Offshore and Petroleum Engineering - 0869	Offshore and Petroleum Engineering - 0361	Chemical Kinetics and Modeling - 0182
10:00 – 10:15		Offshore and Petroleum Engineering - 0108	Offshore and Petroleum Engineering - 0044	Offshore and Petroleum Engineering - 0870	Chemical Kinetics and Modeling - 0608
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Offshore and Petroleum Engineering - 0115	Offshore and Petroleum Engineering - 0410	Offshore and Petroleum Engineering - 0873	Combustion, Pyrolysis and Gasification of Solids and Liquids - 0438
11:00 – 11:15		Offshore and Petroleum Engineering - 0171	Offshore and Petroleum Engineering - 0418	Offshore and Petroleum Engineering - 0878	Combustion, Pyrolysis and Gasification of Solids and Liquids - 0414
11:15 – 11:30		Offshore and Petroleum Engineering - 0205	Offshore and Petroleum Engineering - 0895	Chemical Kinetics and Modeling - 0855	Combustion, Pyrolysis and Gasification of Solids and Liquids - 0437
11:30 – 11:45		Offshore and Petroleum Engineering - 0421	Offshore and Petroleum Engineering - 0528	Chemical Kinetics and Modeling - 0934	Combustion, Pyrolysis and Gasification of Solids and Liquids - 0494
11:45 – 12:00		Offshore and Petroleum Engineering - 0902	Offshore and Petroleum Engineering - 0603	Propulsion - 0041	Combustion, Pyrolysis and Gasification of Solids and Liquids - 0441
12:00 – 12:15		Offshore and Petroleum Engineering - 0886	Offshore and Petroleum Engineering - 0650	Nuclear Engineering - 0380	Combustion, Pyrolysis and Gasification of Solids and Liquids - 0789
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5		
15:00 – 15:15		Offshore and Petroleum Engineering - 0209	Offshore and Petroleum Engineering - 0702		
15:15 – 15:30		Offshore and Petroleum Engineering - 0258	Offshore and Petroleum Engineering - 0709		
15:30 – 15:45		Offshore and Petroleum Engineering - 0270	Offshore and Petroleum Engineering - 0719		
15:45 – 16:00	Registration	Offshore and Petroleum Engineering - 0273	Offshore and Petroleum Engineering - 0723	Visit: Iguazu Falls or Itaipu	
16:00 – 16:15		Offshore and Petroleum Engineering - 0305	Offshore and Petroleum Engineering - 0772		
16:15 – 16:30		Offshore and Petroleum Engineering - 0326	Offshore and Petroleum Engineering - 0826		
16:30 – 18:00		Coffee break + Poster Session	Coffee break + Poster Session		
18:00 – 18:45	Opening Ceremony				
18:45 – 19:45	Keynote Lecture 1	ABCM Committee	ABCM Plenary		
19:45	Cocktail Reception			Conference Dinner	

ROOM 8 (Meeting Room I)					
Time	Sunday Nov 10th, 2024	Monday Nov 11th, 2024	Tuesday Nov 12th, 2024	Wednesday Nov 13th, 2024	Thursday Nov. 14th, 2024
08:30 – 09:30		Keynote Lecture 2	Keynote Lecture 4	Keynote Lecture 6	Keynote Lecture 7
09:30 – 09:45		Carbon capture, utilization and storage - 0459	Hydrogen - 0165	Low-carbon fuels - 0469	Engine Combustion - 0227
09:45 – 10:00		Carbon capture, utilization and storage - 0485	Hydrogen - 0174	Low-carbon fuels - 0470	Engine Combustion - 0389
10:00 – 10:15		Carbon capture, utilization and storage - 0834	Hydrogen - 0185	Low-carbon fuels - 0473	Engine Combustion - 0457
10:15 – 10:45		Coffee break	Coffee break	Coffee break	Coffee break
10:45 – 11:00		Carbon capture, utilization and storage - 0943	Hydrogen - 0194	Engine Combustion - 0486	Renewable energies - 0197
11:00 – 11:15		Carbon capture, utilization and storage - 0947	Hydrogen - 0201	Engine Combustion - 0500	Renewable energies - 0321
11:15 – 11:30		Energy efficiency - 0043	Hydrogen - 0221	Hydrogen - 0930	Renewable energies - 0430
11:30 – 11:45		Energy efficiency - 0178	Hydrogen - 0266	Hydrogen - 0871	Renewable energies - 0696
11:45 – 12:00		Energy efficiency - 0211	Hydrogen - 0278	Renewable energies - 0931	Renewable energies - 0806
12:00 – 12:15		Energy efficiency - 0937	Hydrogen - 0295	Industrial electrification - 0336	Renewable energies - 0881
12:15 – 14:00		Lunch	Lunch	Lunch	Closing Ceremony
14:00 – 15:00		Keynote Lecture 3	Keynote Lecture 5		
15:00 – 15:15		Fuel cell - 0264	Hydrogen - 0442		
15:15 – 15:30		Fuel cell - 0300	Hydrogen - 0526		
15:30 – 15:45		Fuel cell - 0517	Hydrogen - 0536		
15:45 – 16:00	Registration	Hydrogen - 0069	Hydrogen - 0576	Visit: Iguazu Falls or Itaipu	
16:00 – 16:15		Hydrogen - 0074	Hydrogen - 0831		
16:15 – 16:30		Hydrogen - 0083	Hydrogen - 0837		
16:30 – 18:00		Coffee break + Poster Session	Coffee break + Poster Session		
18:00 – 18:45	Opening Ceremony				
18:45 – 19:45	Keynote Lecture 1	ABCM Committee	ABCM Plenary		
19:45	Cocktail Reception			Conference Dinner	

## Oral Presentations

Day	ROOM	Time	ID	Paper	Area	Sub-area	Presenter
Monday Nov 11th, 2024	ROOM 1	09:30 – 09:45	595	THE EFFECTS OF ROTATION AND DRILL STRING ECCENTRICITY ON DRILLING HYDRAULICS – A NUMERICAL INVESTIGATION	Fluid Mechanics	Computational Fluid Dynamics	Felipe Oliveira Basso
Monday Nov 11th, 2024	ROOM 1	09:45 – 10:00	621	An onset assessment of viscosity model effects on blood flow topology under pulsatile condition	Fluid Mechanics	Computational Fluid Dynamics	Lorenzo Ayub Salvatori
Monday Nov 11th, 2024	ROOM 1	10:00 – 10:15	104	Two-Dimensional Evaluation of Water Drip in Automotive Interiors via Numerical Simulation	Fluid Mechanics	Computational Fluid Dynamics	Lenon Audibert Císcio
Monday Nov 11th, 2024	ROOM 1	10:45 – 11:00	55	A NUMERICAL STUDY OF THE FLOW AROUND A CIRCULAR CYLINDER USING THE CORRECTED CORE-SPREADING METHOD WITH COALESCENCE SCHEME	Fluid Mechanics	Computational Fluid Dynamics	Gabriel Ferraz Marcondes de Carvalho
Monday Nov 11th, 2024	ROOM 1	11:00 – 11:15	193	Topological Optimization based on the Finite Volume Method in conjunction with the Finite Element Method	Fluid Mechanics	Computational Fluid Dynamics	Caio Patrick Picoli de Lima
Monday Nov 11th, 2024	ROOM 1	11:15 – 11:30	322	NUMERICAL VERIFICATION OF A PARALLELIZED NATURAL CONVECTION FLOW SOLUTION IMPLEMENTED USING CUDA	Fluid Mechanics	Computational Fluid Dynamics	Ernandes José Gonçalves do Nascimento
Monday Nov 11th, 2024	ROOM 1	11:30 – 11:45	582	Exploring the Potential of Physics-informed neural networks (PINN) in Couette-Poiseuille Laminar Flow Simulations for Newtonian Fluids	Fluid Mechanics	Computational Fluid Dynamics	Gyovanne Zanetti Matuchaki
Monday Nov 11th, 2024	ROOM 1	11:45 – 12:00	670	Mathematical formulation for employing bi-viscous regularization model in CFD simulations of viscoplastic fluids in free-surface flows	Fluid Mechanics	Computational Fluid Dynamics	Lorenzo Olivo Filippini
Monday Nov 11th, 2024	ROOM 1	12:00 – 12:15	590	Finite Element Simulation of Two-Phase flows with Heat and Mass Transfer Through a Decoupled Mesh Method	Fluid Mechanics	Computational Fluid Dynamics	Daniel Barbedo Vasconcelos Santos
Monday Nov 11th, 2024	ROOM 1	15:00 – 15:15	65	Analysis of filtration efficiency in numerical simulations of biofuels combustion	Fluid Mechanics	Computational Fluid Dynamics	Anna Bárbara Serejo Coimbra
Monday Nov 11th, 2024	ROOM 1	15:15 – 15:30	198	COMPUTATIONAL SIMULATION OF THE EFFECT OF PRESSURES ON A LAMINAR DIFFUSION FLAME	Fluid Mechanics	Computational Fluid Dynamics	Hugo Pires Procopio
Monday Nov 11th, 2024	ROOM 1	15:30 – 15:45	544	Modeling and simulation of turbulent flow of supercritical CO <sub>2</sub> in centrifugal compressor	Fluid Mechanics	Computational Fluid Dynamics	Julia Matos
Monday Nov 11th, 2024	ROOM 1	15:45 – 16:00	535	COMPUTATIONAL FLUID DYNAMICS STUDY USING SIMCENTER STAR-CCM+ OF A THERMAL STRATIFICATION FLOW IN A STEAM GENERATOR INJECTION PIPELINE	Fluid Mechanics	Computational Fluid Dynamics	Tiago Augusto Santiago Vieira
Monday Nov 11th, 2024	ROOM 1	16:00 – 16:15	584	NUMERICAL ANALYSIS OF METHANE COMBUSTION IN A DIVERGENT TUBE USING OPENFOAM	Fluid Mechanics	Computational Fluid Dynamics	Theo Palermo
Monday Nov 11th, 2024	ROOM 2	09:30 – 09:45	520	On the behavior of liquid film thickness in downward vertical annular flow	Fluid Mechanics	Multi-phase Flow	Ana Luiza Beltrão Santana
Monday Nov 11th, 2024	ROOM 2	09:45 – 10:00	177	Assessment of slug flow characteristics in upward vertical gas-liquid flow under pressures up to 9 bara	Fluid Mechanics	Multi-phase Flow	Guilherme Rosário dos Santos
Monday Nov 11th, 2024	ROOM 2	10:00 – 10:15	350	Two-fluid modeling of severe slugging in a pipeline-riser system	Fluid Mechanics	Multi-phase Flow	Zhe Zhang
Monday Nov 11th, 2024	ROOM 2	10:45 – 11:00	331	Dynamic modeling of transient slug flow in a curved riser with a slug tracking model	Fluid Mechanics	Multi-phase Flow	Zhongheng Lai
Monday Nov 11th, 2024	ROOM 2	11:00 – 11:15	88	Progression and distribution of slug flow properties in a long vertical pipe	Fluid Mechanics	Multi-phase Flow	Gabriela Pereira Toledo
Monday Nov 11th, 2024	ROOM 2	11:15 – 11:30	506	Experimental Characterization of Slug Flow Structures Using Capacitive Wire-Mesh Sensors in Two-Phase Flow Systems	Fluid Mechanics	Multi-phase Flow	Carolina Rodrigues

Monday Nov 11th, 2024	ROOM 2	11:30 – 11:45	384	ENC-2024-0384 Enhanced Modelling for Resolved Morphologies in Co-current Stratified Pipe Flows	Fluid Mechanics	Multi-phase Flow	Michele Cristina Pedroso
Monday Nov 11th, 2024	ROOM 2	11:45 – 12:00	257	Effect of the interfacial tension force on the transition of stratified liquid-liquid pipe flow	Fluid Mechanics	Multi-phase Flow	Pedro José Miranda Lugo
Monday Nov 11th, 2024	ROOM 2	12:00 – 12:15	478	Slug to stratified flow transition for high density gas phase	Fluid Mechanics	Multi-phase Flow	Pedro Luiz Nóbrega Machado
Monday Nov 11th, 2024	ROOM 2	15:00 – 15:15	78	Electrohydrodynamic flows of leaky dielectric drops: a laser velocimetry approach	Fluid Mechanics	Multi-phase Flow	Joel Karp
Monday Nov 11th, 2024	ROOM 2	15:15 – 15:30	98	Experimental analysis of velocity fields within the bubble wakes	Fluid Mechanics	Multi-phase Flow	Roberta Fatima Neumeister
Monday Nov 11th, 2024	ROOM 2	15:30 – 15:45	319	Effect of the Solid-Fluid Interface on Automated Contact Angle Measurement Methods for Micro-CT Images of Two-Phase Flow in Porous Media	Fluid Mechanics	Multi-phase Flow	Christoph Zevenbergen
Monday Nov 11th, 2024	ROOM 2	15:45 – 16:00	363	Convolutional neural network-based approach for PIV measurement of two-phase liquid-liquid turbulent flow inside a centrifugal pump impeller	Fluid Mechanics	Multi-phase Flow	Rafael Franklin Lazaro de Cerqueira
Monday Nov 11th, 2024	ROOM 2	16:00 – 16:15	732	Development of a Deep Learning-based Image Processing Technique for Local Phase Fractions of Multiphase Transient Flow	Fluid Mechanics	Multi-phase Flow	Jaqueline Diniz da Silva
Monday Nov 11th, 2024	ROOM 2	16:15 – 16:30	269	Experimental setup for sedimentation of weighting agents with image processing techniques.	Fluid Mechanics	Multi-phase Flow	Amanda Chornobai Severiano
Monday Nov 11th, 2024	ROOM 3	09:30 – 09:45	32	Mechanical Degradation of Polymer Solutions in Extensional Laminar Flow	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Marcio CARVALHO
Monday Nov 11th, 2024	ROOM 3	09:45 – 10:00	97	EXPERIMENTAL INVESTIGATION OF THE SHEAR-INDUCED DEGRADATION OF POLYMER SOLUTIONS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Matheus Garros
Monday Nov 11th, 2024	ROOM 3	10:00 – 10:15	910	Mechanical behavior of dilute ferrofluid emulsions in planar extensional flows and uniform magnetic fields	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Arthur Guilherme
Monday Nov 11th, 2024	ROOM 3	10:45 – 11:00	566	Rheological characterization and formation protocol of cyclopentane hydrate slurries	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Renato Siqueira
Monday Nov 11th, 2024	ROOM 3	11:00 – 11:15	254	INFLUENCE OF PMMA MICROPARTICLES IN XG/HPMC AND XG/HEC MIXTURES AS VISCOSIFIERS IN WATER-BASED DRILLING FLUIDS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Daniel Werner Janzen
Monday Nov 11th, 2024	ROOM 3	11:15 – 11:30	255	Rheological behavior of graphene oxide suspensions in biopolymer aqueous dispersion	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	José Carlos Canazas Rodríguez
Monday Nov 11th, 2024	ROOM 3	11:30 – 11:45	172	INFLUENCE OF XANTHAN GUM CONCENTRATION ON THE THERMAL SENSITIVITY OF WATER BASED DRILLING FLUIDS AT HIGH TEMPERATURE CONDITIONS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Emiliano Bocado da Cruz
Monday Nov 11th, 2024	ROOM 3	11:45 – 12:00	324	SYNERGISTIC EFFECT OF XG/HEC AT HIGH SALINITY MIXTURES FOR WATER-BASED DRILLING FLUIDS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Tobias Kruger
Monday Nov 11th, 2024	ROOM 3	12:00 – 12:15	539	EXPERIMENTAL METHODOLOGY FOR EVALUATION OF MIXTURE PROCESS BETWEEN NETONIAN AND NON-NEWTONIAN FLUIDS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Jonas de Cristo
Monday Nov 11th, 2024	ROOM 3	15:00 – 15:15	417	Energy harvesting from tandem circular cylinders in turbulent crossflow	Flow Induced Vibration	Flow Induced Vibration	Patrick Habowski
Monday Nov 11th, 2024	ROOM 3	15:15 – 15:30	751	THE FINITE ELEMENT METHOD APPLIED TO FLUID-STRUCTURE INTERACTION USING THE ARBITRARY LAGRANGIAN-EULERIAN AND THE SEMI-LAGRANGIAN METHODS	Flow Induced Vibration	Flow Induced Vibration	João Paulo Innocente de Souza
Monday Nov 11th, 2024	ROOM 3	15:30 – 15:45	811	INFLUENCE OF THE HIGH PEAK PRESSURE GENERATED BY WATER HAMMER ON COMPOSITE REPAIR SYSTEMS FOR METALLIC PIPES WITH THROUGH-THICKNESS DAMAGE	Flow Induced Vibration	Flow Induced Vibration	Bernardo Santiago Areias
Monday Nov 11th, 2024	ROOM 3	15:45 – 16:00	913	CONCEPTUAL DESIGN OF A TRANSMISSION SYSTEM FOR BAJA VEHICLE	Flow Induced Vibration	Flow Induced Vibration	Ruan Pires

Monday Nov 11th, 2024	ROOM 3	16:00 – 16:15	827	SPARSE IDENTIFICATION OF THE GINZBURG-LANDAU EQUATIONS	Fluid Mechanics	Theoretical and Analytical Modeling	Fernanda Cordeiro
Monday Nov 11th, 2024	ROOM 3	16:15 – 16:30	936	SIMULATION OF THE MASS TRANSFER PROCESS IN A POROUS MEDIUM	Fluid Mechanics	Theoretical and Analytical Modeling	Victor Alexandre Bruzi
Monday Nov 11th, 2024	ROOM 4	09:30 – 09:45	412	Identification of misfire faults in a marine diesel engine using artificial machine learning and operational parameters	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Felipe Thomaz
Monday Nov 11th, 2024	ROOM 4	09:45 – 10:00	419	Evaluation of Solar Thermal-based Green Hydrogen Production Potential and Levelized Cost in Cataguases-MG	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Fernando Jardim Borges da Cunha
Monday Nov 11th, 2024	ROOM 4	10:00 – 10:15	427	Onsite Experimental Performance Evaluation of a Large Internal Combustion Engine Repowering Combining Both Waste Heat Recovery and Absorption Chiller for Intake Air Cooling and Dehumidification	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Andre Chun
Monday Nov 11th, 2024	ROOM 4	10:45 – 11:00	449	Thermal model for the evaluation of refrigerant charging and discharging process	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Mateus Henrique Corrêa
Monday Nov 11th, 2024	ROOM 4	11:00 – 11:15	465	Analysis of the nuclear fission heat generation equation and heat transfer in a nuclear reactor	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Felipe Pfahl
Monday Nov 11th, 2024	ROOM 4	11:15 – 11:30	491	Assessment of the thermal and Carbon footprint performance of a renewable simple and recompressed supercritical carbon dioxide Brayton cycles using an organic rankine cycle as waste heat recovery system.	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Victor Merlano
Monday Nov 11th, 2024	ROOM 4	11:30 – 11:45	507	GAS HYDRATE MANAGEMENT IN CRUDE OIL UNDER MULTIPHASE FLOW CONDITIONS IN HIGH SALINITY SYSTEMS	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Luiz Fernando Santos De Vasconcelos
Monday Nov 11th, 2024	ROOM 4	11:45 – 12:00	543	Design, production and testing of a magnetic field with four magnetic field regions applied to a rotary thermomagnetic motor.	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Dalila Torres
Monday Nov 11th, 2024	ROOM 4	12:00 – 12:15	575	Energetic and exergetic assessment of a sugarcane ethanol cogeneration plant	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Pedro Henrique Castro Alves
Monday Nov 11th, 2024	ROOM 4	15:30 – 15:45	579	THERMODYNAMIC EVALUATION OF STEAM TURBINE COGENERATION SYSTEM CONFIGURATIONS FOR THERMAL AND CHEMICAL WASTE ENERGY RECOVERY IN THE ELECTRIC FURNACES OF A CARBOCHEMICAL COMPANY IN BRAZIL	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Francisco Mello Fonseca
Monday Nov 11th, 2024	ROOM 4	15:45 – 16:00	634	Numerical Modeling of a Phase Change Material (PCM) - Based Passive Heat Exchanger Integrated with a Finned Heat Sink	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Luis Gonçalves
Monday Nov 11th, 2024	ROOM 4	16:00 – 16:15	639	Thermodynamic Analysis of Helium Liquefier through Computational Simulations	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Henrique Fragoso da Silva
Monday Nov 11th, 2024	ROOM 4	16:15 – 16:30	15	THERMAL PERFORMANCE STUDY OF A LITHIUM-ION BATTERY FOR ELECTRICAL VEHICLES	Heat and Mass Transfer	Applied Heat and Mass Transfer	Sabrina Chichinelli
Monday Nov 11th, 2024	ROOM 5	09:30 – 09:45	116	A Study on S1223 Airfoil Optimization via Differential Evolution and Panel Methods	Aerospace Engineering	Aerodynamics	Gustavo Chaves Carraro
Monday Nov 11th, 2024	ROOM 5	09:45 – 10:00	144	FLOW ANALYSIS OVER A HIGHLY CAMBERED AIRFOIL AT LOW REYNOLDS	Aerospace Engineering	Aerodynamics	Thales Ferreira
Monday Nov 11th, 2024	ROOM 5	10:00 – 10:15	274	Thin Airfoil in Ground Effect under an Alternative Form for the Kutta Condition.	Aerospace Engineering	Aerodynamics	karl peter burr
Monday Nov 11th, 2024	ROOM 5	10:45 – 11:00	347	Airfoil Aerodynamic Shape Optimization using a Discrete Adjoint Approach	Aerospace Engineering	Aerodynamics	Juliano Moreira Maurer
Monday Nov 11th, 2024	ROOM 5	11:00 – 11:15	941	Airfoil flow analysis under conditions close to stall: a practical study for identification and characterization of the separation bubble	Aerospace Engineering	Aerodynamics	Renan Trevizan de Melo
Monday Nov 11th, 2024	ROOM 5	11:15 – 11:30	758	EVALUATION OF WINDKESSEL MODEL VERSUS PERCENTAGE OUTFLOW AS BOUNDARY CONDITIONS ON THE AORTA FLOW FIELD	Bioengineering	Bioengineering	Angela Nieckele
Monday Nov 11th, 2024	ROOM 5	11:30 – 11:45	76	Assessing Stent Geometry in Coronary Angioplasty: A Study of FSI vs. CFD Modeling	Bioengineering	Bioengineering	Kristian Nascimento Telöken

Monday Nov 11th, 2024	ROOM 5	11:45 – 12:00	366	TEMPERATURE IN BIOPRINTING PROCESS INDUCES PRECISION IN FABRICATION OF SCAFFOLDS	Bioengineering	Bioengineering	Thiago Wenk
Monday Nov 11th, 2024	ROOM 5	12:00 – 12:15	381	Numerical assessment of hemodynamic changes in recurrent intracranial aneurysms after endovascular embolization	Bioengineering	Bioengineering	Maria Gabriella Pegaiane
Monday Nov 11th, 2024	ROOM 5	15:00 – 15:15	40	Innovative Solutions: The Role of Stirling Engines in Advancing Space Propulsion Technologies	Aerospace Engineering	Propulsion	Juliana Aparecida Araújo
Monday Nov 11th, 2024	ROOM 5	15:15 – 15:30	168	Time series fitting using knot theory for SINDY	Aerospace Engineering	Propulsion	Davi Saadi de Almeida Lettieri
Monday Nov 11th, 2024	ROOM 5	15:30 – 15:45	453	Characterization of Paraffin-LDPE Blended Fuels	Aerospace Engineering	Propulsion	Rafael Coelho
Monday Nov 11th, 2024	ROOM 5	15:45 – 16:00	862	DETERMINATION OF CONSTANTS FOR PROPELLANT GRAIN REGRESSION MODEL THROUGH BAYESIAN INFERENCE	Aerospace Engineering	Propulsion	Norberto Mangiacavchi
Monday Nov 11th, 2024	ROOM 5	16:00 – 16:15	771	EFFECT OF FIBER INCLINATION ANGLE ON THE EFFECTIVE SPECIFIC HEAT OF A COMPOSITE APPLIED TO A SOLID ROCKET MOTOR ENVELOPE	Aerospace Engineering	Propulsion	Humberto Machado
Monday Nov 11th, 2024	ROOM 5	16:15 – 16:30	559	Numerical Analysis of a Detonation-Driven Gas Gun for Hypersonic Launches	Aerospace Engineering	Propulsion	Douglas Bortolotti Tagawa
Monday Nov 11th, 2024	ROOM 6	09:30 – 09:45	239	Radiative Heat Transfer in Supercritical CO2 Brayton Cycle: Evaluation of WSGG Model	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Vitor Olson
Monday Nov 11th, 2024	ROOM 6	09:45 – 10:00	445	Investigation of dissipated energy during droplet impact on heated surfaces with water and ethanol	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Arthur Vieira da Silva Oliveira
Monday Nov 11th, 2024	ROOM 6	10:00 – 10:15	450	Shape-Sensitivity Analysis of Laminar Forced Convection in Rough in Micro-channels	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Leandro Alcoforado Sphaier
Monday Nov 11th, 2024	ROOM 6	10:45 – 11:00	476	EXPERIMENTAL EVALUATION OF THE LIQUID FILM THICKNESS TRANSIENT BEHAVIOR USING HIGH-SPEED DIAGNOSTICS	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Maurício Marinheiro
Monday Nov 11th, 2024	ROOM 6	11:00 – 11:15	596	Optimizing Heat Exchanger Design: Optimizing Efficiency and Sustainability Through Additive Manufacturing	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Keferson Carvalho
Monday Nov 11th, 2024	ROOM 6	11:15 – 11:30	766	Experimental investigation of a mini-channel cold plates for lithium-ion battery thermal management system	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Arthur Gabriel Torres
Monday Nov 11th, 2024	ROOM 6	11:30 – 11:45	795	Investigation of the Thermomagnetic Effect on the Heat Exchanger of a Thermoacoustic Engine Through CFD with MHD Modeling	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Geovane Costa Clemente
Monday Nov 11th, 2024	ROOM 6	11:45 – 12:00	632	Assessment of Design Alternatives for Contamination Reduction in Operating Rooms: A Numerical Approach	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Federico Licandro
Monday Nov 11th, 2024	ROOM 6	12:00 – 12:15	785	CFD Simulation of a Centrifugal Liquid-Gas Separator: Euler-Euler Biphasic Method Application	Fluid Mechanics	Multi-phase Flow	Thiago Vicznevski
Monday Nov 11th, 2024	ROOM 6	15:00 – 15:15	25	Development of a semi-analytic coupled model for conjugate natural convection heat transfer	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Guilherme Santos Machado
Monday Nov 11th, 2024	ROOM 6	15:15 – 15:30	66	Optimal experimental design for thermophysical properties estimation using the Quadrilateral Optimization Method (QOM) with accelerated GPU implementation	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Ariel Flores Monteiro de Oliveira
Monday Nov 11th, 2024	ROOM 6	15:30 – 15:45	763	Numerical Analysis of the Volumetric Heating of a Lithium-Ion Battery Pack: An Alternative Approach	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Giovani Dambros
Monday Nov 11th, 2024	ROOM 6	15:45 – 16:00	280	NUMERICAL ANALYSIS OF THE THERMAL BEHAVIOR IN A THERMITE-BASED THROUGH-TUBING SOLUTION FOR OIL WELL PLUG AND ABANDONMENT	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Fabício Pena
Monday Nov 11th, 2024	ROOM 6	16:00 – 16:15	296	A Thermal Network Model for Printed Circuit Boards with Copper Traces	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Aron Martins Ferreira Milagres



Monday Nov 11th, 2024	ROOM 6	16:15 – 16:30	261	Automatic and Online Kalman Filter Tuning for Estimation of High Magnitude Heat Fluxes	Heat and Mass Transfer	Numerical Heat and Mass Transfer	César Pacheco
Monday Nov 11th, 2024	ROOM 7	09:30 – 09:45	408	A DIGITAL TWIN FOR MONITORING DRILLING OPERATIONS: A DECADE-LONG SUCCESSFUL OPERATION	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Rodrigo Yugi Ikuta Tobisawa
Monday Nov 11th, 2024	ROOM 7	09:45 – 10:00	87	AIRFOIL OPTIMIZATION FOR ENHANCING WIND TURBINE PERFORMANCE	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	João Victor Barros dos Santos
Monday Nov 11th, 2024	ROOM 7	10:00 – 10:15	108	Influence of Gravity Segregation on Oil Recovery for WAG Injection in a Typical Pre-Salt Reservoir	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Clewerton Braga
Monday Nov 11th, 2024	ROOM 7	10:45 – 11:00	115	Analysis of the Thermite Propagation Front Velocity in Tubes for Wellbore Plugging and Abandonment operation	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Bruno de Campos Salles Anselmo
Monday Nov 11th, 2024	ROOM 7	11:00 – 11:15	171	Experimental Unit for Evaluation of Drag Force in the Removal of Offshore Oil Production Column	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Pedro Maestro
Monday Nov 11th, 2024	ROOM 7	11:15 – 11:30	205	Numerical Model and Computer Simulation for Offshore Floating Platforms of Reduced Vertical Oscillations in Waves	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Pedro Kalid Bacellar
Monday Nov 11th, 2024	ROOM 7	11:30 – 11:45	421	Techniques for Analyzing the Sedimentation of Solids	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Raquel Schimicoski
Monday Nov 11th, 2024	ROOM 7	11:45 – 12:00	902	HEAT TRANSFER IN A WELLBORE WITH LOST CIRCULATION: MODEL AND SCALE ANALYSIS	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	James Romano
Monday Nov 11th, 2024	ROOM 7	12:00 – 12:15	886	CFD-DEM SIMULATION OF SCALE FORMATION IN CAPILLARY TUBES BASED ON THE TUBE BLOCKING TEST	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	João Vitor Faidiga Silva
Monday Nov 11th, 2024	ROOM 7	15:00 – 15:15	209	Direct-Inverse Problem Analysis and Uncertainty Quantification of Relative Permeability on Unsteady-State Core Flooding Experiment	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Gianfranco Stieven
Monday Nov 11th, 2024	ROOM 7	15:15 – 15:30	258	Virtual Sensing of Vibration Responses in an Electrical Submersible Pump Operating in a Test Well	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Henrique Andrade Oliveira Santos
Monday Nov 11th, 2024	ROOM 7	15:30 – 15:45	270	Mathematical Modeling for Application in the Oil Production Column Entrapment in Offshore Wells Using Rheological Models	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Nathan Lins de Andrade
Monday Nov 11th, 2024	ROOM 7	15:45 – 16:00	273	Design of an Experimental Apparatus for Evaluating Annular Pressure Build-Up in Oil and Gas Wells	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Alan Nakashima
Monday Nov 11th, 2024	ROOM 7	16:00 – 16:15	305	Experimental evaluation of scaling inhibitor associated with magnetic field for mitigation of calcium carbonate scaling in hydrocyclones	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Andrei Hünemeyer Dullius
Monday Nov 11th, 2024	ROOM 7	16:15 – 16:30	326	EXPERIMENTAL STUDY OF THE TEMPERATURE AND REYNOLDS NUMBER INFLUENCE ON CALCIUM CARBONATE SCALING DEPOSITION INSIDE A 65-METER FLOW LOOP	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Juliana Ferreira Gonçalves
Monday Nov 11th, 2024	ROOM 8	09:30 – 09:45	459	IMPACT OF IMPURITIES ON CO2 TRANSPORT RELEVANT TO CCS SYSTEMS: INSIGHTS FROM 1-D SIMULATIONS	Decarbonisation - ENCIT 2024	Carbon capture, utilization and storage	Jader Barbosa
Monday Nov 11th, 2024	ROOM 8	09:45 – 10:00	485	Energy Transition in Oil and Gas Industry: Greenhouse Gas Emissions and Carbon Capture Utilization and Storage (CCUS) in the Oil and Gas Reserves Estimates	Decarbonisation - ENCIT 2024	Carbon capture, utilization and storage	Alexandre Carvalho Costa
Monday Nov 11th, 2024	ROOM 8	10:00 – 10:15	834	EXPERIMENTAL EVALUATION OF THE PERFORMANCE OF A CENTRIFUGAL PUMP OPERATING WITH SUPERCRITICAL CO2	Decarbonisation - ENCIT 2024	Carbon capture, utilization and storage	Jhoan M.C. Cubas
Monday Nov 11th, 2024	ROOM 8	10:45 – 11:00	943	MACHINE LEARNING AIDED METHODOLOGY OF CARBON CAPTURE MATERIALS DISCOVERY	Decarbonisation - ENCIT 2024	Carbon capture, utilization and storage	Marcelo Riso Errera
Monday Nov 11th, 2024	ROOM 8	11:00 – 11:15	947	REACTIVITY STUDY OF BRAZILIAN LIMESTONES AS CO2 SORBENT IN CALCIUM LOOPING PROCESS	Decarbonisation - ENCIT 2024	Carbon capture, utilization and storage	Robson Oliveira
Monday Nov 11th, 2024	ROOM 8	11:15 – 11:30	43	Development of Microencapsulated Phase Change Materials for Energy Efficiency Applications	Decarbonisation - ENCIT 2024	Energy efficiency	Caio vinicius Santos Cartaxo

Monday Nov 11th, 2024	ROOM 8	11:30 – 11:45	178	Analysis of the performance of Energy Saving Devices to improve energy efficiency on merchant vessels	Decarbonisation - ENCIT 2024	Energy efficiency	Marlon Silva
Monday Nov 11th, 2024	ROOM 8	11:45 – 12:00	211	Repowering and Energy Efficiency as a Strategy for Decarbonization and Energy Transition At Steel Industry Utilities	Decarbonisation - ENCIT 2024	Energy efficiency	Andre Chun
Monday Nov 11th, 2024	ROOM 8	12:00 – 12:15	937	Assessing Energy Usage: A Diagnostic Model Approach to Energy Efficiency	Decarbonisation - ENCIT 2024	Energy efficiency	Lara Werncke Vieira
Monday Nov 11th, 2024	ROOM 8	15:00 – 15:15	264	USE OF ALKALIZED COTTON FABRIC MEMBRANES FOR ANION EXCHANGE MEMBRANE FUEL CELL	Decarbonisation - ENCIT 2024	Fuel cell	Luiza Natel
Monday Nov 11th, 2024	ROOM 8	15:15 – 15:30	300	Preliminary study of alkalized membranes for anion exchange membrane fuel cell	Decarbonisation - ENCIT 2024	Fuel cell	Fábio Furtado
Monday Nov 11th, 2024	ROOM 8	15:30 – 15:45	517	Sensitivity Analysis of Electrochemical Modeling Parameters on PEMFC Polarization Curve	Decarbonisation - ENCIT 2024	Fuel cell	Tamayo Zanforlin Pires de Almeida Motta Dias
Monday Nov 11th, 2024	ROOM 8	15:45 – 16:00	69	A mathematical model of risk management in a device for generating hydrogen	Decarbonisation - ENCIT 2024	Hydrogen	Luiz Assumpção
Monday Nov 11th, 2024	ROOM 8	16:00 – 16:15	74	DECARBONIZATION OF THE GREEN HYDROGEN SUPPLY CHAIN: CONCEPTUALIZATION AND GUIDANCE FOR APPLICATION	Decarbonisation - ENCIT 2024	Hydrogen	Pedro Veiga Santos
Monday Nov 11th, 2024	ROOM 8	16:15 – 16:30	83	Energy Performance and Emissions Assessment in the use of Aviation Kerosene and Hydrogen in an Aeronautical Engine.	Decarbonisation - ENCIT 2024	Hydrogen	Pedro Afonso Cassani Martins
Tuesday Nov 12th, 2024	ROOM 1	09:30 – 09:45	7	NUMERICAL SIMULATIONS OF FLOW IN A PROTON EXCHANGE MEMBRANE FUEL CELL	Fluid Mechanics	Computational Fluid Dynamics	Gabriela Barbosa
Tuesday Nov 12th, 2024	ROOM 1	09:45 – 10:00	456	FEM MODEL FOR STRATIFIED TURBULENT FLOWS FOR BIO-REACTOR APPLICATIONS	Fluid Mechanics	Computational Fluid Dynamics	Ygor Ares Monteiro
Tuesday Nov 12th, 2024	ROOM 1	10:00 – 10:15	416	NUMERICAL ANALYSIS OF TWO-PHASE FLOWS IN A MICRO-REACTOR FOR BIODIESEL PRODUCTION	Fluid Mechanics	Computational Fluid Dynamics	Antonio Emanuel Marques dos Santos
Tuesday Nov 12th, 2024	ROOM 1	10:45 – 11:00	121	Innovative design analysis of helical vertical axis wind turbine	Fluid Mechanics	Computational Fluid Dynamics	Danilo Albuquerque Ribeiro
Tuesday Nov 12th, 2024	ROOM 1	11:00 – 11:15	134	INFLUENCE OF BLADE PITCH ANGLE ON TORQUE GENERATION IN H-DARRIEUS TURBINES	Fluid Mechanics	Computational Fluid Dynamics	Ramiro Bertolina
Tuesday Nov 12th, 2024	ROOM 1	11:15 – 11:30	345	CFD MODELING OF WIND TURBINE WAKES IN A WIND FARM USING THE ACTUATOR LINE METHOD	Fluid Mechanics	Computational Fluid Dynamics	Genaro Montoya Juarez
Tuesday Nov 12th, 2024	ROOM 1	11:30 – 11:45	394	UAV PROPELLER PERFORMANCE PREDICTION THROUGH COMPUTATIONAL FLUID DYNAMICS	Fluid Mechanics	Computational Fluid Dynamics	Jose Mauricio Passos Vieira
Tuesday Nov 12th, 2024	ROOM 1	11:45 – 12:00	909	Novel Force Distribution Method for Enhanced Wind Turbine Simulations Using Actuator Line Models	Fluid Mechanics	Computational Fluid Dynamics	Matheus Nunes
Tuesday Nov 12th, 2024	ROOM 1	12:00 – 12:15	238	CFD Analysis of Center of Mass modification in Floating Offshore Wind Turbines subjected to regular waves.	Fluid Mechanics	Computational Fluid Dynamics	Daniel Pavan Parra
Tuesday Nov 12th, 2024	ROOM 1	15:00 – 15:15	93	NUMERICAL STUDY OF THE ANGULAR VARIATION EFFECT AT THE 155 MM PROJECTILE TRAILING EDGE	Fluid Mechanics	Computational Fluid Dynamics	Rodrigo de Azevedo Rodrigues Paulo
Tuesday Nov 12th, 2024	ROOM 1	15:15 – 15:30	94	EVALUATION AERODYNAMIC COEFFICIENTS FOR SS T-09 TS FIN PROFILE	Fluid Mechanics	Computational Fluid Dynamics	VICTOR SANTORO SANTIAGO
Tuesday Nov 12th, 2024	ROOM 1	15:30 – 15:45	829	Numerical Investigation of the Supersonic Flow Upstream of a Cylinder Using a Thermally Coupled Fluid-Solid Model	Fluid Mechanics	Computational Fluid Dynamics	Juan Carlos Assis da Silva
Tuesday Nov 12th, 2024	ROOM 1	15:45 – 16:00	641	EFFECT OF PITCH MOTION ON THE AERODYNAMIC WAKE OF A FLOATING DARRIEUS WIND TURBINE	Fluid Mechanics	Computational Fluid Dynamics	Pericles Nicolau Balafa

Tuesday Nov 12th, 2024	ROOM 1	16:00 – 16:15	395	METAMATERIAL CLOAK FOR DRAG REDUCTION IN CREEPING FLOW OVER BLUNT BODIES	Fluid Mechanics	Computational Fluid Dynamics	Daniel Rubano Barretto Turci
Tuesday Nov 12th, 2024	ROOM 2	09:30 – 09:45	371	A Unified Model for Steady-State Two-Phase Gas-Liquid Flows for Pipes with Any Angle of Inclination	Fluid Mechanics	Multi-phase Flow	Pedro Pimentel Nascimento
Tuesday Nov 12th, 2024	ROOM 2	09:45 – 10:00	475	Experimental Analysis of the Influence of the Gas Density on Slug Flow Parameters in a Horizontal Pipe	Fluid Mechanics	Multi-phase Flow	Dalton Bertoldi
Tuesday Nov 12th, 2024	ROOM 2	10:00 – 10:15	691	Study of the influence of hydrate-like particles in oil-air stratified flow	Fluid Mechanics	Multi-phase Flow	Vitor Otávio Ochoski Machado
Tuesday Nov 12th, 2024	ROOM 2	10:45 – 11:00	213	EXPERIMENTAL ANALYSIS OF PARTICLE DYNAMICS DURING EROSION IN IMPINGING JET SYSTEMS	Fluid Mechanics	Multi-phase Flow	Miguel Linhares dos Santos
Tuesday Nov 12th, 2024	ROOM 2	11:00 – 11:15	594	Study of the influence of hydrate-like particles in the oil-air slug flow pattern	Fluid Mechanics	Multi-phase Flow	Paúl Delgado
Tuesday Nov 12th, 2024	ROOM 2	11:15 – 11:30	463	Mathematical model for displacement flow of immiscible fluids	Fluid Mechanics	Multi-phase Flow	Rafaella Casado Silva
Tuesday Nov 12th, 2024	ROOM 2	11:30 – 11:45	460	Experimental study of the flushing process in horizontal pipes	Fluid Mechanics	Multi-phase Flow	Elcilane Freitas
Tuesday Nov 12th, 2024	ROOM 2	11:45 – 12:00	276	Nonlinear pattern formation in lifting Hele-Shaw flows	Fluid Mechanics	Multi-phase Flow	Rafael Menezes de Oliveira
Tuesday Nov 12th, 2024	ROOM 2	12:00 – 12:15	247	Experimental characterization of large heavy particle dynamics in wall-bounded turbulence	Fluid Mechanics	Multi-phase Flow	Robert Jäckel
Tuesday Nov 12th, 2024	ROOM 2	15:00 – 15:15	642	Beyond Nyquist limit through a triple-PRT scheme for Ultrasonic Velocity Profiling applied to fluid engineering	Fluid Mechanics	Instrumentation and Experiments	Fabio Rizental Coutinho
Tuesday Nov 12th, 2024	ROOM 2	15:15 – 15:30	202	The influence of vane-hub gap in the performance of a centrifugal compressor with vaned diffuser	Fluid Mechanics	Industrial Applications and Turbomachinery	Rafael Eller
Tuesday Nov 12th, 2024	ROOM 2	15:30 – 15:45	571	IDENTIFICATION OF EFFICIENCY DEGRADATION OF CENTRIFUGAL COMPRESSORS WITH THE AID OF MACHINE LEARNING	Fluid Mechanics	Industrial Applications and Turbomachinery	Guilherme Geremia
Tuesday Nov 12th, 2024	ROOM 2	15:45 – 16:00	864	HYDRODYNAMIC AND THERMAL FEM MODEL OF BLAST FURNACE COOLING SYSTEM	Fluid Mechanics	Industrial Applications and Turbomachinery	Norberto Mangiacavchi
Tuesday Nov 12th, 2024	ROOM 2	16:00 – 16:15	230	The Impact of Leading-Edge Blade Shape on Efficiency and Flow Dynamics of Centrifugal Compressors	Fluid Mechanics	Industrial Applications and Turbomachinery	Bruno José Nagy Antonio
Tuesday Nov 12th, 2024	ROOM 2	16:15 – 16:30	747	EXPERIMENTAL, ANALYTICAL AND NUMERICAL ANALYSIS OF THE PRESSURE DROP IN DIFFUSION BONDED HEAT EXCHANGER	Fluid Mechanics	Instrumentation and Experiments	Gian Marcos Gatti
Tuesday Nov 12th, 2024	ROOM 3	09:30 – 09:45	1	Assessment of the resilience of cogeneration systems applied to a hospital	Energy and Thermal Systems	Thermodynamics and Thermal Systems	José Alexandre Matelli
Tuesday Nov 12th, 2024	ROOM 3	09:45 – 10:00	16	NUMERICAL STUDY OF THE FLUID FLOW AND HEAT TRANSFER IN A ROTARY THERMOMAGNETIC MOTOR	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Pedro Antonio Diniz Chaves
Tuesday Nov 12th, 2024	ROOM 3	10:00 – 10:15	79	Rotary thermomagnetic motor prototype with a fin rotor: preliminary results	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Clara Silva
Tuesday Nov 12th, 2024	ROOM 3	10:45 – 11:00	173	Numerical Simulation of Extrudate Swell and Jet Buckling for K-BKZ Fluids	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	MANOEL SILVINO BATALHA DE ARAUJO
Tuesday Nov 12th, 2024	ROOM 3	11:00 – 11:15	234	NEURAL NETWORK APPLIED TO PREDICT VISCOSITY FIELDS AND YIELD SURFACES FOR BINGHAM FLUIDS FLOWING OVER CYLINDER ARRANGEMENTS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Eduardo Henrique Taube Cunegatto
Tuesday Nov 12th, 2024	ROOM 3	11:15 – 11:30	110	A Comparative Study and Critical Analysis of Measurement Uncertainty in Velocity Profile of Laminar Flow of Viscoplastic Fluid.	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Glauco Kenji Matoba

Tuesday Nov 12th, 2024	ROOM 3	11:30 – 11:45	119	Numerical heat transfer analysis of continuously variable transmission for a Baja-SAE vehicle in quiescent air.	Heat and Mass Transfer	Applied Heat and Mass Transfer	Murilo Andriotti
Tuesday Nov 12th, 2024	ROOM 3	11:45 – 12:00	181	Thermal Performance of a Loop Heat Pipe for Portable Electronic Gadgets	Heat and Mass Transfer	Applied Heat and Mass Transfer	Larissa Krambeck
Tuesday Nov 12th, 2024	ROOM 3	12:00 – 12:15	767	Analysis of different PCM compositions applied to battery cooling	Heat and Mass Transfer	Applied Heat and Mass Transfer	Gabriel Rossger
Tuesday Nov 12th, 2024	ROOM 3	15:00 – 15:15	717	Evaluation of rheological properties of CO2 hydrate suspension for application in CCS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Ronald Antunes Gomes
Tuesday Nov 12th, 2024	ROOM 3	15:15 – 15:30	433	Effect of droplet size distribution on the rheology and stability of water-in-oil emulsions	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Monica Naccache
Tuesday Nov 12th, 2024	ROOM 3	15:30 – 15:45	9	DROP RISE, INTERFACIAL COLLISION, AND FILM DRAINAGE INITIAL STAGE IN ELASTO-VISCOPLASTIC MATERIALS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Lucas Henrique Pagoto Deoclecio
Tuesday Nov 12th, 2024	ROOM 3	15:45 – 16:00	60	DROP RISE, INTERFACIAL COLLISION, AND FILM THINNING INITIAL STAGE IN VISCOELASTIC MATERIALS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Lucas Henrique Pagoto Deoclecio
Tuesday Nov 12th, 2024	ROOM 3	16:00 – 16:15	48	Free surface flows with Boussinesq-Scriven viscous interfaces	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Ivan Siqueira
Tuesday Nov 12th, 2024	ROOM 3	16:15 – 16:30	39	Three-Dimensional Flow of Thixotropic Liquids in Slot Coating Die	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Stélio Henrique Lopes
Tuesday Nov 12th, 2024	ROOM 4	09:30 – 09:45	14	PARAMETERS OF ENERGETIC OF BIOETHANOL PRODUCTION AND ELECTRICITY AT THE COGENERATION UNIT	Energy and Thermal Systems	Biofuels and Renewable Energy	Eduardo José Cidade Cavalcanti
Tuesday Nov 12th, 2024	ROOM 4	09:45 – 10:00	101	Forecasting Global and Direct Solar Irradiance with Machine Learning Algorithms: Insights from Recursive Feature Selection and SHAP Analysis	Energy and Thermal Systems	Biofuels and Renewable Energy	Paulo Alexandre Costa Rocha
Tuesday Nov 12th, 2024	ROOM 4	10:00 – 10:15	150	Study of the influence of the excess air coefficient and the concentration of green hydrogen in CNG and biomethane on a bi-fuel engine's performance parameters and emissions	Energy and Thermal Systems	Biofuels and Renewable Energy	Yoshi Tsugawa
Tuesday Nov 12th, 2024	ROOM 4	10:45 – 11:00	151	USE OF FOREST RESIDUES: A PROCESS OF ENERGY GENERATION AND HIGH-VALUE BIOMATERIALS EVALUATION	Energy and Thermal Systems	Biofuels and Renewable Energy	Gilvana Scoculi de Lira
Tuesday Nov 12th, 2024	ROOM 4	11:00 – 11:15	212	NUMERICAL SIMULATION OF TURBULENT FLOW IN NATURAL CHANNELS	Energy and Thermal Systems	Biofuels and Renewable Energy	Kaajal Gopie
Tuesday Nov 12th, 2024	ROOM 4	11:15 – 11:30	275	Operational optimization of a bi-fuel turbocharged engine using biomethane with and without the addition of H2G as an alternative fuel to CNG.	Energy and Thermal Systems	Biofuels and Renewable Energy	Gabriel Willian Moreira Bezerra
Tuesday Nov 12th, 2024	ROOM 4	11:30 – 11:45	744	Salt stress of microalgae Tetradismus obliquus for biomass accumulation	Energy and Thermal Systems	Biofuels and Renewable Energy	Luana Passarin
Tuesday Nov 12th, 2024	ROOM 4	11:45 – 12:00	423	RECOVERY OF NUTRIENTS THROUGH MEMBRANE CRYSTALLIZATION COUPLED WITH SOLAR THERMAL AND PHOTOVOLTAIC ENERGY: CHALLENGES AND OPPORTUNITIES	Energy and Thermal Systems	Biofuels and Renewable Energy	Guilherme Diniz
Tuesday Nov 12th, 2024	ROOM 4	12:00 – 12:15	312	FEASIBILITY STUDY OF IMPLEMENTING A HYBRID THERMAL PTC-MSW POWER PLANT FOR ELECTRICITY GENERATION IN THE STATE OF ESPÍRITO SANTO	Energy and Thermal Systems	Biofuels and Renewable Energy	Francisco Mello Fonseca
Tuesday Nov 12th, 2024	ROOM 4	15:00 – 15:15	697	THERMODYNAMIC AND ENVIRONMENTAL ANALYSIS OF CLEAN ENERGY SYSTEM OXY-FUEL COMBUSTION POWER PLANT	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Antonio Gallego
Tuesday Nov 12th, 2024	ROOM 4	15:15 – 15:30	722	Process simulation and performance assessment of an energy-integrated system comprising a solid-state hydrogen storage tank and proton exchange membrane fuel cells	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Hugo Valença de Araújo
Tuesday Nov 12th, 2024	ROOM 4	15:30 – 15:45	749	Numerical analysis of organic Rankine cycle with R514a	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Juliana Silva Brasil
Tuesday Nov 12th, 2024	ROOM 4	15:45 – 16:00	815	FINITE-TIME AIR-STANDARD AND AIR-FUEL BEAU DE ROCHAS MODELS WITH CHEMICAL KINETICS COUPLINGS FOR THERMODYNAMIC ENGINE SIMULATIONS	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Gabriel Bianek

Tuesday Nov 12th, 2024	ROOM 4	16:00 – 16:15	819	INFLUENCE OF TEMPERATURE MEASUREMENT ACCURACY ON HEAT FLUX DETERMINATION FOR PHASE CHANGE EXPERIMENTS: NUMERICAL SIMULATION ANALYSIS	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Gabriel Chahad
Tuesday Nov 12th, 2024	ROOM 4	16:15 – 16:30	946	ALGORITHM DEVELOPMENT FOR SIZING OF A GEOTHERMAL CONDENSATION HEAT EXCHANGER REFRIGERATION SYSTEM COIL	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Joao Alves de Lima
Tuesday Nov 12th, 2024	ROOM 5	09:30 – 09:45	256	Weather Projections and Their Impact on Building Performance in Curitiba (Brazil)	Heat and Mass Transfer	Applied Heat and Mass Transfer	Yuri Prestes Rehme
Tuesday Nov 12th, 2024	ROOM 5	09:45 – 10:00	601	EXPERIMENTAL ANALYSIS OF FINNED THERMOSYPHONS USING THERMOELECTRIC GENERATORS FOR HEAT RECOVERY APPLICATIONS	Heat and Mass Transfer	Applied Heat and Mass Transfer	Allefe Chagas Vaz
Tuesday Nov 12th, 2024	ROOM 5	10:00 – 10:15	75	Single droplet impact regime mapping via two different optical technique perspectives	Heat and Mass Transfer	Applied Heat and Mass Transfer	Alvaro Felipe Campos Araya
Tuesday Nov 12th, 2024	ROOM 5	10:45 – 11:00	615	ANALYSIS OF ERROR IN TRANSIENT TEMPERATURE MEASUREMENTS USING THERMOCOUPLE	Heat and Mass Transfer	Applied Heat and Mass Transfer	Fábio Silva Faria
Tuesday Nov 12th, 2024	ROOM 5	11:00 – 11:15	761	In-situ estimation of calorimetric curves of phase change materials	Heat and Mass Transfer	Applied Heat and Mass Transfer	Kleber Marques Lisboa
Tuesday Nov 12th, 2024	ROOM 5	11:15 – 11:30	854	Effect of Flow Orientation on Pressure Drop During Convective Boiling in a Microstructured Heat Sink with Open Tapered Manifold.	Heat and Mass Transfer	Applied Heat and Mass Transfer	Alexandre Garcia Costa
Tuesday Nov 12th, 2024	ROOM 5	11:30 – 11:45	426	Pressure Swirl Injectors Spray Interaction Through Analytical Techniques for Liquid Rocket Engines	Aerospace Engineering	Propulsion	Maurício Sá Gontijo
Tuesday Nov 12th, 2024	ROOM 5	11:45 – 12:00	657	EXPERIMENTAL STUDY OF HYDRODYNAMIC INSTABILITIES IN LIQUID FILMS OF PRESSURE SWIRL INJECTORS	Aerospace Engineering	Propulsion	Igor Paccini Silva
Tuesday Nov 12th, 2024	ROOM 5	12:00 – 12:15	501	Dynamic-thermodynamic coupling of a hypersonic vehicle	Aerospace Engineering	Propulsion	Guilherme Ribeiro
Tuesday Nov 12th, 2024	ROOM 5	15:00 – 15:15	149	Aerodynamic performance analysis of a wingtip propeller	Aerospace Engineering	Aerodynamics	Maria Veronica Meneghetti Bomfim
Tuesday Nov 12th, 2024	ROOM 5	15:15 – 15:30	330	On the definition of a simulation model to assess tonal noise and aerodynamics from small propellers using OpenFOAM	Aerospace Engineering	Aerodynamics	Filipe Dutra da Silva
Tuesday Nov 12th, 2024	ROOM 5	15:30 – 15:45	403	A Study on Propeller-Wing Interaction and the Analysis of the Effect of Blockage on Propeller Performance	Aerospace Engineering	Aerodynamics	Thiago Teodosio
Tuesday Nov 12th, 2024	ROOM 5	15:45 – 16:00	557	Enhancing Experimental and Numerical Data Validation through Acoustic Noise Signal Demodulation for Estimating Drone Propeller Rotational Speed	Aerospace Engineering	Aerodynamics	Gabriel Costa da Silva
Tuesday Nov 12th, 2024	ROOM 5	16:00 – 16:15	72	EXPERIMENTAL MEASUREMENTS OF AN UAV PROPELLER WAKE	Aerospace Engineering	Aerodynamics	Pamela Cristyne da Silva Martins
Tuesday Nov 12th, 2024	ROOM 5	16:15 – 16:30	214	UAVS OPTIMIZATION BY METAHEURISTICS	Aerospace Engineering	Aerodynamics	Jean Carlos Guedes Souza
Tuesday Nov 12th, 2024	ROOM 6	09:30 – 09:45	446	GENERATING A TYPICAL METEOROLOGICAL YEAR FOR A WEATHER STATION IN RIO DE JANEIRO.	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	Marcio Barbosa França Junior
Tuesday Nov 12th, 2024	ROOM 6	09:45 – 10:00	607	Comparative analysis of housing construction solutions based on measurements	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	Gabriel Pena Vergara
Tuesday Nov 12th, 2024	ROOM 6	10:00 – 10:15	609	Thermodynamic evaluation of the evolution of the performance of a large-scale magnetic refrigeration system	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	Guilherme Fidelis Peixer
Tuesday Nov 12th, 2024	ROOM 6	10:45 – 11:00	85	Comparative Exergetic Analysis of the Modernization of Synthetic Refrigerant R-22 by Natural Fluid R-290 on a Test Bench with Residential Chiller System	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	Gabriel Barbosa
Tuesday Nov 12th, 2024	ROOM 6	11:00 – 11:15	692	Numerical study on the storage time of a cylindrical vaccine transport box	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	Robert Jäckel

Tuesday Nov 12th, 2024	ROOM 6	11:15 – 11:30	711	Development of linear compressors for a two-stage cascade ultra-low temperature freezer	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	Ernane Silva
Tuesday Nov 12th, 2024	ROOM 6	11:30 – 11:45	10	Characterization of the freezing process of droplets on cold surfaces using optical techniques.	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Murillo Augusto Correa Masculi
Tuesday Nov 12th, 2024	ROOM 6	11:45 – 12:00	514	Experimental determination of methane diffusivity in dodecane under hydrate formation conditions	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Thales Sirino
Tuesday Nov 12th, 2024	ROOM 6	12:00 – 12:15	623	On the Role of Fractional Derivatives in the Modelling of Engineering Problems	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Ariel Patriota
Tuesday Nov 12th, 2024	ROOM 6	15:00 – 15:15	369	Thermodynamic Analysis of Cogeneration of Electricity and Industrial Heat in a Floating Nuclear Power Plant	Nuclear Engineering	Nuclear Engineering	Natacha Gonçalves Camargo
Tuesday Nov 12th, 2024	ROOM 6	15:15 – 15:30	523	A COMPUTATIONAL MODEL FOR DESALINATION USING HOLLOW FIBRE DIRECT CONTACT MEMBRANE DISTILLATION (DCMD)	Nuclear Engineering	Nuclear Engineering	Paulo Augusto Berquo de Sampaio
Tuesday Nov 12th, 2024	ROOM 6	15:30 – 15:45	527	Exploring Thorium-Based Fuels in Small Modular Reactors: Neutronic Analysis and Safety Considerations in a NuScale-like Core	Nuclear Engineering	Nuclear Engineering	Keferson Carvalho
Tuesday Nov 12th, 2024	ROOM 6	15:45 – 16:00	907	One-dimensional two-phase homogeneous flow model for a vertical heated pipe	Nuclear Engineering	Nuclear Engineering	Mateo Augusto Acevedo Onieva
Tuesday Nov 12th, 2024	ROOM 6	16:00 – 16:15	379	Thermalhydraulic Analysis of a Dual-Cooled Annular Fuel Cool with Neutronic Coupling	Nuclear Engineering	Nuclear Engineering	Juliana Campos Salgado
Tuesday Nov 12th, 2024	ROOM 6	16:15 – 16:30	708	Neutronic Analysis of a Thorium-based ADS	Nuclear Engineering	Nuclear Engineering	Geovana Loren da Cruz
Tuesday Nov 12th, 2024	ROOM 7	09:30 – 09:45	332	Assessment of Porosity and Permeability REV from Micro-CT Images of Sandstone and Carbonate Rocks	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Bernardo Gehlen
Tuesday Nov 12th, 2024	ROOM 7	09:45 – 10:00	869	Advancements in Lightweight Drilling Fluids: Formulations, Characterization, Rheology, and Applications	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Marcos Vinicius Costa
Tuesday Nov 12th, 2024	ROOM 7	10:00 – 10:15	44	Characterization of two-dimensional reservoirs combining pressure and temperature data using Ensemble Smoother with Multiple Data Assimilation methodology.	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	José Adriano Cardoso
Tuesday Nov 12th, 2024	ROOM 7	10:45 – 11:00	410	On the thermodynamic consistency of thermal conductivity mixing models for drilling fluids	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Mariana Cunha
Tuesday Nov 12th, 2024	ROOM 7	11:00 – 11:15	418	The Roadmap for the Implementation of The Technology of Magnetic Subs for Downhole Scale Mitigation	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Andre Leibsohn Martins
Tuesday Nov 12th, 2024	ROOM 7	11:15 – 11:30	895	CALCIUM CARBONATE FORMATION WITHIN THE OIL AND GAS WORKFLOW: A COMBINED THERMODYNAMIC, KINETIC, AND CFD MODELING APPROACH FOR SMART COMPLETION SYSTEMS	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Vinicius Gustavo Poletto
Tuesday Nov 12th, 2024	ROOM 7	11:30 – 11:45	528	THERMOPHYSICAL PROPERTIES OF HIGH CO2 MIXTURES: EXPERIMENTS AND THEORY	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Erich Takenore Tiuman
Tuesday Nov 12th, 2024	ROOM 7	11:45 – 12:00	603	Assessment of deep-learning techniques for anomaly detection in offshore oil wells	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Guilherme Fidelis Peixer
Tuesday Nov 12th, 2024	ROOM 7	12:00 – 12:15	650	Mathematical Model to Predict Transient Annular Pressure Change During Flow Restart	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Ricardo Knesebeck
Tuesday Nov 12th, 2024	ROOM 7	15:00 – 15:15	702	Validation of a Transient Model for CO2 Injection Wellbores using Literature Data	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Bernardo Vieira
Tuesday Nov 12th, 2024	ROOM 7	15:15 – 15:30	709	ASPHALTENE DEPOSITION IN CAPILLARY TUBES	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Jorge Luis Esteban Pinco
Tuesday Nov 12th, 2024	ROOM 7	15:30 – 15:45	719	SCALE FORMATION IN EXTREME CONDITIONS OF HIGH SALT CONCENTRATION	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Bruno Lopes Barboza

Tuesday Nov 12th, 2024	ROOM 7	15:45 – 16:00	723	CALCIUM CARBONATE DEPOSITIONS IN INFLOW CONTROL DEVICES	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	paulo henrique de sousa silva
Tuesday Nov 12th, 2024	ROOM 7	16:00 – 16:15	772	Emulsion injection through fractured porous media at Pore scale	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Alandmara Rosa Dionizio Leôncio
Tuesday Nov 12th, 2024	ROOM 7	16:15 – 16:30	826	A systematic comparison of wellbore heat transfer simulators	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Jader Barbosa
Tuesday Nov 12th, 2024	ROOM 8	09:30 – 09:45	165	The impact of frequency analysis results on the definition of input data to model fire risk consequences in a green hydrogen production and storage system.	Decarbonisation - ENCIT 2024	Hydrogen	Barbara Siqueira
Tuesday Nov 12th, 2024	ROOM 8	09:45 – 10:00	174	COMPARATIVE STUDY OF THE PRIMARY ENERGY FACTOR IN HYDROGEN ELECTRICITY PRODUCTION IN BRAZIL, THE UNITED STATES AND DENMARK	Decarbonisation - ENCIT 2024	Hydrogen	Fabiana de Marqui Mantovan
Tuesday Nov 12th, 2024	ROOM 8	10:00 – 10:15	185	Development and Characterization of a Mobile Power Generation System from Sustainable Hydrogen Production	Decarbonisation - ENCIT 2024	Hydrogen	Henrique Guerra
Tuesday Nov 12th, 2024	ROOM 8	10:45 – 11:00	194	Exploring the Efficiency of Diesel Cycle Engines with Diesel and Hydrogen Blends: An Experimental Study	Decarbonisation - ENCIT 2024	Hydrogen	Carlos Henrique Matiolo
Tuesday Nov 12th, 2024	ROOM 8	11:00 – 11:15	201	Energetic and Exergetic Assessment of CSP-CCGT Integration for Hydrogen Production and Use in Power Generation	Decarbonisation - ENCIT 2024	Hydrogen	Leonardo Ribeiro de Paula
Tuesday Nov 12th, 2024	ROOM 8	11:15 – 11:30	221	HYBRID MULTI-SCALE MULTIPHASE FLOW MODELING FOR OXYGEN REMOVAL IN PROTON EXCHANGE MEMBRANE ELECTROLYZERS	Decarbonisation - ENCIT 2024	Hydrogen	Vittorio Nardin
Tuesday Nov 12th, 2024	ROOM 8	11:30 – 11:45	266	Parametric Analysis and Optimization of a Sustainable Hydrogen Generation System Using Aluminum Waste in a Pilot-scale Reactor	Decarbonisation - ENCIT 2024	Hydrogen	Dhyogo Miléo Taher
Tuesday Nov 12th, 2024	ROOM 8	11:45 – 12:00	278	Analysis and Perspectives of Sustainable Hydrogen Generation at Airports for On-Site Energy Production and Consumption in Aircraft	Decarbonisation - ENCIT 2024	Hydrogen	Kauana Alessandra dos Santos
Tuesday Nov 12th, 2024	ROOM 8	12:00 – 12:15	295	TECHNICAL AND ECONOMIC POTENTIAL OF DECENTRALIZED HYDROGEN PRODUCTION USING THE BRAZILIAN ELECTRICAL GRID AS AN INTEGRATOR	Decarbonisation - ENCIT 2024	Hydrogen	Vinicius Rugeri Borges Bonini
Tuesday Nov 12th, 2024	ROOM 8	15:00 – 15:15	442	Liquefied Gas Mixtures Optimization for Sustainable Hydrogen Liquefaction	Decarbonisation - ENCIT 2024	Hydrogen	yogan Felipe Sganzerla
Tuesday Nov 12th, 2024	ROOM 8	15:15 – 15:30	526	AN ESTIMATIVE OF HYDROGEN PRICE AT THE PUMP FOR FUEL STATIONS IN FLORIANOPOLIS	Decarbonisation - ENCIT 2024	Hydrogen	Luiz H. Silva Junior
Tuesday Nov 12th, 2024	ROOM 8	15:30 – 15:45	536	DESIGN REQUIREMENTS FOR THE DEVELOPMENT OF A HYDROGEN GAS TURBINE ANNULAR COMBUSTOR	Decarbonisation - ENCIT 2024	Hydrogen	Mayara Salgado
Tuesday Nov 12th, 2024	ROOM 8	15:45 – 16:00	576	Sustainable Hydrogen Production through Aluminum Utilization in Alkaline Solution and Electrolysis: A Comparative Perspective	Decarbonisation - ENCIT 2024	Hydrogen	Rhuan Araujo
Tuesday Nov 12th, 2024	ROOM 8	16:00 – 16:15	831	Comparative analysis of pre- and post-compression strategies for PEM H2 generation through thermodynamic and thermo-economic assessment with focus on decentralized production	Decarbonisation - ENCIT 2024	Hydrogen	Emilio Paladino
Tuesday Nov 12th, 2024	ROOM 8	16:15 – 16:30	837	HYDROGEN PRODUCTION AND BLACK CARBON FROM METHANE USING A DIELECTRIC BARRIER DISCHARGE PLASMA REACTOR	Decarbonisation - ENCIT 2024	Hydrogen	José Roberto Simões Moreira
Wednesday Nov 13th, 2024	ROOM 1	09:30 – 09:45	882	Numerical investigation of pollutant dispersion in street canyons using OpenFOAM	Fluid Mechanics	Computational Fluid Dynamics	Arthur França Martins
Wednesday Nov 13th, 2024	ROOM 1	09:45 – 10:00	877	EFFICIENCY EVALUATION OF RDTW STAND ALONE SCREENS (SAS) FOR SAND PRODUCTION USING CFD-DEM	Fluid Mechanics	Computational Fluid Dynamics	Vinicius Gustavo Poletto
Wednesday Nov 13th, 2024	ROOM 1	10:00 – 10:15	656	Design and numerical investigation of trapezoidal micro-pin fins for cooling systems	Fluid Mechanics	Computational Fluid Dynamics	Ligia Paola Velandia
Wednesday Nov 13th, 2024	ROOM 1	10:45 – 11:00	67	Turbulent flow around a surface-mounted cube using the lattice Boltzmann method - Evaluation of moment based outflow boundary conditions	Fluid Mechanics	Computational Fluid Dynamics	Marco Aurélio Ferrari

Wednesday Nov 13th, 2024	ROOM 1	11:00 – 11:15	323	3-D Laminar Backward Facing Step Simulations Through an Immersed Boundary-Fourier Pseudospectral Methodology	Fluid Mechanics	Computational Fluid Dynamics	Thiago Fernando Santiago de Freitas
Wednesday Nov 13th, 2024	ROOM 1	11:15 – 11:30	262	An analysis regarding the use of the LBM method in external flow	Fluid Mechanics	Computational Fluid Dynamics	Flávio Hirai Garzeri
Wednesday Nov 13th, 2024	ROOM 1	11:30 – 11:45	184	The use of an accelerator algorithm to study the flow around a bluff body through a Lagrangian approach	Fluid Mechanics	Computational Fluid Dynamics	Marília Vidille
Wednesday Nov 13th, 2024	ROOM 1	11:45 – 12:00	890	COUETTE FLOW SIMULATION USING LATTICE BOLTZMANN METHOD	Fluid Mechanics	Computational Fluid Dynamics	Leonardo Demmer Knippenberg
Wednesday Nov 13th, 2024	ROOM 1	12:00 – 12:15	117	Study of Vortex-Temperature Interactions Applied for Aircraft Wake Vortices in Vicinity of Heated Ground Plane: The Advection Problem Solution using Different Schemes to Integrate the Particles Trajectory.	Fluid Mechanics	Computational Fluid Dynamics	Tiago Raimundo Chiaradia
Wednesday Nov 13th, 2024	ROOM 2	09:30 – 09:45	49	High-speed liquid thermography by laser-induced fluorescence: first results	Fluid Mechanics	Instrumentation and Experiments	Pedro Stefano Veronese
Wednesday Nov 13th, 2024	ROOM 2	09:45 – 10:00	695	EXPERIMENTAL ANALYSIS OF THE INFLUENCE OF THE INTERFACIAL TENSION IN THE FORMATION OF COMPOUND DROPLETS IN WATER INSIDE A MODEL FLOTATOR WITH THE USE OF SURFACTANTS	Fluid Mechanics	Instrumentation and Experiments	Pedro Morales
Wednesday Nov 13th, 2024	ROOM 2	10:00 – 10:15	146	Flow pattern classification in air-water horizontal flows using confocal chromatic microscopy	Fluid Mechanics	Instrumentation and Experiments	Cristiano Tibiriçá
Wednesday Nov 13th, 2024	ROOM 2	10:45 – 11:00	246	Distributed Dual Modality Impedance Sensor for Multiphase Flow Monitoring and Characterization	Fluid Mechanics	Instrumentation and Experiments	Natan Schieck Reginaldo
Wednesday Nov 13th, 2024	ROOM 2	11:00 – 11:15	411	Characterization of a Low-Frequency Pulsatile Piezoelectric Pump	Fluid Mechanics	Instrumentation and Experiments	Alan Neves
Wednesday Nov 13th, 2024	ROOM 2	11:15 – 11:30	468	Ultrasound Doppler Velocimetry Evaluation and Simulation Validation of a Multiphase Flow Generated by a Rock-Flow Cell	Fluid Mechanics	Instrumentation and Experiments	Andre Stakowian
Wednesday Nov 13th, 2024	ROOM 2	11:30 – 11:45	191	PRESSURE DROP PREDICTIONS IN INTERMITTENT FLOWS FOR HORIZONTAL AIR/NON-NEWTONIAN BINGHAM PLASTIC FLUIDS	Fluid Mechanics	Multi-phase Flow	Rafael Cordebela
Wednesday Nov 13th, 2024	ROOM 2	11:45 – 12:00	81	EXPERIMENTAL STUDY ON DENSE-GAS/LIQUID FLOW IN HORIZONTAL AND INCLINED PIPES	Fluid Mechanics	Multi-phase Flow	Carlos Mauricio Ruiz Diaz
Wednesday Nov 13th, 2024	ROOM 2	12:00 – 12:15	640	Experimental investigation of air-water flow pattern for horizontal flow in tubes with forced vibration	Fluid Mechanics	Multi-phase Flow	Fabio Toshio Kanizawa
Wednesday Nov 13th, 2024	ROOM 3	09:30 – 09:45	259	ENERGY AND EXERGY ANALYSIS OF A POWER PLANT FED BY SUGARCANE BAGASSE AND NATURAL GAS OPERATING WITH A HYBRID COMBINED CYCLE	Energy and Thermal Systems	Thermodynamics and Thermal Systems	LEANDRO ANDRADE FURTADO
Wednesday Nov 13th, 2024	ROOM 3	09:45 – 10:00	309	EXPERIMENTAL EVALUATION OF A LINEAR THERMOMAGNETIC MOTOR COUPLED TO A SPRING MECHANISM	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Higor Caldas Rios
Wednesday Nov 13th, 2024	ROOM 3	10:00 – 10:15	316	Parameter identification in photovoltaic thermal systems	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Gabriel Rabelo Thomaz
Wednesday Nov 13th, 2024	ROOM 3	11:15 – 11:30	367	LOW COMPUTATION COST THERMAL RISK ASSESSMENT MODEL FOR AIRCRAFT EQUIPMENT	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Filipe Maia Nunes Celestino
Wednesday Nov 13th, 2024	ROOM 3	11:30 – 11:45	80	METHODOLOGY PROPOSAL FOR CLINKER KILN ENERGY BALANCE	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Lúcio Camargo
Wednesday Nov 13th, 2024	ROOM 3	11:45 – 12:00	89	POTENTIAL OF COGENERATION SYSTEMS TO IMPROVE ENERGY IN A HOSPITAL	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Marco Antonio de Amorim
Wednesday Nov 13th, 2024	ROOM 3	12:00 – 12:15	206	Sustainable innovation: Development and analysis of a test bench for hydrogen engines	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Beatriz das Graças Kochan Ferreira
Wednesday Nov 13th, 2024	ROOM 4	09:30 – 09:45	313	Utilization of Tetrademus obliquus biomass as alternative source of Fe for maize and soybean.	Energy and Thermal Systems	Biofuels and Renewable Energy	Ezequias Ferreira



Wednesday Nov 13th, 2024	ROOM 4	09:45 – 10:00	317	Analysis of microalgae growth in heterotrophic medium with addition of glucose and nitrate to increase biomass productivity	Energy and Thermal Systems	Biofuels and Renewable Energy	Ana Júlia Ferreira Ganda
Wednesday Nov 13th, 2024	ROOM 4	10:00 – 10:15	325	Surface reflectivity as a function of incidence angle for concentrated solar energy application	Energy and Thermal Systems	Biofuels and Renewable Energy	Miguel Queiroz Viveiros Gomes
Wednesday Nov 13th, 2024	ROOM 4	10:45 – 11:00	337	Progress in hydrogen production: a review of solar-driven high-temperature electrolysis systems	Energy and Thermal Systems	Biofuels and Renewable Energy	Silvio de Oliveira Junior
Wednesday Nov 13th, 2024	ROOM 4	11:00 – 11:15	339	Effects of applying <i>Tetrademus olivus</i> biomass on wheat growth in compacted soil conditions	Energy and Thermal Systems	Biofuels and Renewable Energy	Caroline Rusch Schulze
Wednesday Nov 13th, 2024	ROOM 4	11:15 – 11:30	773	GREEN HYDROGEN PRODUCTION FROM BRAZILIAN LANDFILLS: TECHNICAL AND ECONOMIC ISSUES	Energy and Thermal Systems	Biofuels and Renewable Energy	Regina Franciélle Silva Paulino
Wednesday Nov 13th, 2024	ROOM 4	11:30 – 11:45	388	Experimental Analysis of Photovoltaic-Panel Energy Balance	Energy and Thermal Systems	Biofuels and Renewable Energy	Mario Benjamim Baptista de Siqueira
Wednesday Nov 13th, 2024	ROOM 4	11:45 – 12:00	311	Biomass algae ( <i>Tetrademus obliquus</i> ) as potential biofertilizer: application in vegetable species to increase plant growth.	Energy and Thermal Systems	Biofuels and Renewable Energy	Ana Letícia Anderman
Wednesday Nov 13th, 2024	ROOM 4	12:00 – 12:15	440	Advancements and Challenges in Energy-Efficient Microalgae Cultivation for Sustainable Biofuel Production	Energy and Thermal Systems	Biofuels and Renewable Energy	Gabriela Conor Figueiredo
Wednesday Nov 13th, 2024	ROOM 5	09:30 – 09:45	28	Influence of the Control Temperature of Park's Two-Temperature Model on the Mars Pathfinder Reactive Hypersonic Flow	Aerospace Engineering	Aerodynamics	Gibson De Marchi Poltronieri
Wednesday Nov 13th, 2024	ROOM 5	09:45 – 10:00	927	EVALUATION AND VERIFICATION OF THE IMPACT OF VARIOUS MESH CONFIGURATIONS ON THE CFD SIMULATION OUTCOMES FOR AN OPTIMIZED HYPERSONIC WAVERIDER	Aerospace Engineering	Aerodynamics	Rolando Guzmán-Bohórquez
Wednesday Nov 13th, 2024	ROOM 5	10:00 – 10:15	875	SUPERSONIC AERODYNAMICS OF PROJECTILES WITH BASE BLEED PROPELLANTS	Aerospace Engineering	Aerodynamics	Norberto Mangiacvacci
Wednesday Nov 13th, 2024	ROOM 5	10:45 – 11:00	736	Validation of Non-viscous Flow Approach for Generic Future Fighter	Aerospace Engineering	Aerodynamics	Adson De Paula
Wednesday Nov 13th, 2024	ROOM 5	11:00 – 11:15	817	WIND TUNNEL MEASUREMENTS OF AIR FLOW AROUND CYLINDERS WITH SPLITTER PLATES AT LOW REYNOLDS NUMBER	Aerospace Engineering	Aerodynamics	Breno Lopes Tumelero
Wednesday Nov 13th, 2024	ROOM 5	11:15 – 11:30	534	CFD Application to Analyze Aerothermodynamic Parameters in Flows with Propulsive Jet	Aerospace Engineering	Aerodynamics	Humberto Machado
Wednesday Nov 13th, 2024	ROOM 5	11:30 – 11:45	19	DESIGN, MANUFACTURE AND TEST OF A STATIC AND DYNAMIC BENCH FOR THRUST DETERMINATION OF UAV'S BRUSHLESS ENGINES	Aerospace Engineering	Aerodynamics	Fillipi Augusto Fernandes Rizzi
Wednesday Nov 13th, 2024	ROOM 5	11:45 – 12:00	176	A SU2 and Nastran Interaction framework for evaluating the static aeroelastic behavior of very flexible wings	Aerospace Engineering	Aerodynamics	Caio Ladeia Costa Alves
Wednesday Nov 13th, 2024	ROOM 5	12:00 – 12:15	629	WIND INFLUENCE ON DROPLETS DISTRIBUTION FROM RPA'S SPRAYING IN AGRICULTURAL SETTINGS	Aerospace Engineering	Aerodynamics	Pedro Madureira
Wednesday Nov 13th, 2024	ROOM 6	09:30 – 09:45	47	SUBCOOLED FLOW BOILING HEAT TRANSFER COEFFICIENT DATA IN A MICROCHANNEL AT HIGH MASS VELOCITIES	Nano and Microfluidic and Micro-Systems	Experimental methods in micro and nano-systems	Thalles Coimbra Borba Roldão
Wednesday Nov 13th, 2024	ROOM 6	09:45 – 10:00	100	Evaluation Of Vapor Bubble Dynamics In Microchannel Porous Fins For Enhanced Boiling Heat Transfer	Nano and Microfluidic and Micro-Systems	Experimental methods in micro and nano-systems	Arthur Vilaronga
Wednesday Nov 13th, 2024	ROOM 6	10:00 – 10:15	109	Controlled sodium silicate gelation through encapsulation of hydrochloric acid for fracture sealing	Nano and Microfluidic and Micro-Systems	Experimental methods in micro and nano-systems	Ademir Medeiros
Wednesday Nov 13th, 2024	ROOM 6	10:45 – 11:00	297	THERMOHYDRAULIC PERFORMANCE OF NANOFUIDS IN SUDDEN CONTRACTION	Nano and Microfluidic and Micro-Systems	Experimental methods in micro and nano-systems	Felipe Silva dos Santos
Wednesday Nov 13th, 2024	ROOM 6	11:00 – 11:15	135	ANALYSIS OF CONJUGATED INTERNAL CONVECTION IN MICROCHANNELS VIA INTEGRAL TRANSFORMS	Nano and Microfluidic and Micro-Systems	Simulation approaches in micro and nanoengineering	Daniel Chalhub

Wednesday Nov 13th, 2024	ROOM 6	11:15 – 11:30	222	1D Simulation of Nanofluid Thermal Radiation: Effect of Nanoparticles	Nano and Microfluidic and Micro-Systems	Simulation approaches in micro and nanoengineering	Pedro Henrique de Souza
Wednesday Nov 13th, 2024	ROOM 6	11:30 – 11:45	560	Energy evaluation of an absorption refrigerator using nanofluids in the secondary system	Nano and Microfluidic and Micro-Systems	Simulation approaches in micro and nanoengineering	Wesley Argolo
Wednesday Nov 13th, 2024	ROOM 7	09:30 – 09:45	846	Numerical Investigation of Paraffin Phase Change Induced Shrinkage	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Denis Barbosa Barbara
Wednesday Nov 13th, 2024	ROOM 7	09:45 – 10:00	361	The influence of pass-flow rate of deficient shutdown valves on the consequences of fires assessed through the integrity of primary structures on an offshore platform	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Barbara Siqueira
Wednesday Nov 13th, 2024	ROOM 7	10:00 – 10:15	870	DISCRETE ELEMENT METHOD CALIBRATION TO CHARACTERIZE ADHESION FORCES IN CALCIUM CARBONATE AGGLOMERATION	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Felipe Pereira
Wednesday Nov 13th, 2024	ROOM 7	10:45 – 11:00	873	EFFECTS OF SURFACE ROUGHNESS ON THE VIV INVESTIGATED ACROSS DIFFERENT EXPERIMENTAL SETUPS	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Karen Soares
Wednesday Nov 13th, 2024	ROOM 7	11:00 – 11:15	878	HEAT TRANSFER SIMULATION OF TURBULENT FLOW IN INTERVAL CONTROL VALVES – ICV	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	João Clarindo
Wednesday Nov 13th, 2024	ROOM 7	11:15 – 11:30	855	INVESTIGATING LAMINAR BURNING VELOCITY IN AMMONIA-HYDROGEN MIXTURES USING DIFFERENT KINETIC MECHANISMS	Combustion	Chemical Kinetics and Modeling	Danilo Almeida Machado
Wednesday Nov 13th, 2024	ROOM 7	11:30 – 11:45	934	Two-Step Chemical Mechanism for Ethanol-air Premixed Flames	Combustion	Chemical Kinetics and Modeling	Andreza Costa
Wednesday Nov 13th, 2024	ROOM 7	11:45 – 12:00	41	Stirling Power: A Multi-Objective Optimization Approach for Advancing Space Station Energy Systems	Aerospace Engineering	Propulsion	Juliana Aparecida Araújo
Wednesday Nov 13th, 2024	ROOM 7	12:00 – 12:15	380	THERMAL-HYDRAULIC ANALYSIS OF STEADY-STATE TWO-PHASE NATURAL CIRCULATION IN A BWR	Nuclear Engineering	Nuclear Engineering	Mayara Francisca Reis de Souza
Wednesday Nov 13th, 2024	ROOM 8	09:30 – 09:45	469	COST AND PLACEMENT OF SOLAR GREEN HYDROGEN PRODUCTION STATIONS TO SUPPLY FCEV FLEET GROWTH IN BRAZILIAN STATES	Decarbonisation - ENCIT 2024	Low-carbon fuels	Leonardo Pereira Felicidade
Wednesday Nov 13th, 2024	ROOM 8	09:45 – 10:00	470	ESTIMATING TOTAL COST RELATED TO USING EVS OR ICEVS WITH DIFFERENT ENERGY AND FUEL SOURCES IN EACH BRAZILIAN STATE	Decarbonisation - ENCIT 2024	Low-carbon fuels	Arthur Martins Farias
Wednesday Nov 13th, 2024	ROOM 8	10:00 – 10:15	473	A regional approach to estimating economic and environmental impacts when running a vehicle with ethanol in Brazil	Decarbonisation - ENCIT 2024	Low-carbon fuels	Pedro Tomasi Pedroso
Wednesday Nov 13th, 2024	ROOM 8	10:45 – 11:00	486	Potential of hydrogen – compressed natural gas (HCNG) blends as fuel in SACI engines to decarbonize efficiently the mobility sector: a numerical study	Combustion	Engine Combustion	Rayanne Nascimento
Wednesday Nov 13th, 2024	ROOM 8	11:00 – 11:15	500	Assessment of Emissions and Fuel Consumption in Heavy Trucks: Implications of Biodiesel Blending in Brazil's Fleet	Combustion	Engine Combustion	Fábio Lisboa
Wednesday Nov 13th, 2024	ROOM 8	11:15 – 11:30	930	PRELIMINARY STUDY OF LARGE-SCALE OPTIMIZATION OF HYDROGEN PRODUCTION FROM ALUMINUM	Decarbonisation - ENCIT 2024	Hydrogen	Eduarda Zeni Neves
Wednesday Nov 13th, 2024	ROOM 8	11:30 – 11:45	871	Waste management in the transition to sustainable energy from hydrogen generation through metal-mediated reactions	Decarbonisation - ENCIT 2024	Hydrogen	Beatriz Jacob Furlan
Wednesday Nov 13th, 2024	ROOM 8	11:45 – 12:00	931	Study on Seawater Desalination Using Hybrid OTEC Technology in Fernando de Noronha Island	Decarbonisation - ENCIT 2024	Renewable energies	Armando Hideki Shinohara
Wednesday Nov 13th, 2024	ROOM 8	12:00 – 12:15	336	THERMO-ECONOMIC AND ENVIRONMENTAL FEASIBILITY ANALYSIS OF ALTERNATIVES FOR ENERGY TRANSITION AND DECARBONIZATION IN A CHOCOLATE FACTORY UTILITIES	Decarbonisation - ENCIT 2024	Industrial electrification	José Joaquim Conceição Soares Santos
Thursday Nov. 14th, 2024	ROOM 1	09:30 – 09:45	365	Evaluation of the Influence of Fire-Induced Temperature Profiles in Offshore Hydrogen Production Facilities: Simulation-Based CFD Analysis	Fluid Mechanics	Computational Fluid Dynamics	Leonardo Nunes Pereira
Thursday Nov. 14th, 2024	ROOM 1	09:45 – 10:00	659	Investigating RPC Aging: Computational Models and Insights for Enhanced Detector Longevity	Fluid Mechanics	Computational Fluid Dynamics	Isis Mota

Thursday Nov. 14th, 2024	ROOM 1	10:00 – 10:15	606	Thermal Dynamics of High-Voltage Power Transformers: A Computational Fluid Dynamics Approach	Fluid Mechanics	Computational Fluid Dynamics	João Pedro Furlan do Prado
Thursday Nov. 14th, 2024	ROOM 1	10:45 – 11:00	95	NUMERICAL INVESTIGATION OF BINGHAM FLUID FLOW IN A PARTIALLY POROUS CHANNEL	Fluid Mechanics	Computational Fluid Dynamics	lucas raone
Thursday Nov. 14th, 2024	ROOM 1	11:00 – 11:15	356	Numerical Investigation of the Effects of Granular Media on Steady and Acoustic Fluid Flow Behavior	Fluid Mechanics	Computational Fluid Dynamics	Gabriel Rozo
Thursday Nov. 14th, 2024	ROOM 1	11:15 – 11:30	466	Validation of CFD Simulations using the Darcy-Forchheimer Model against Experimental Data for Bag Filters	Fluid Mechanics	Computational Fluid Dynamics	Lucas Borges Menezes
Thursday Nov. 14th, 2024	ROOM 1	11:30 – 11:45	393	CFD-DEM simulation of filter cake formation in dynamic filtration over heterogeneous porous medium analyzing batch particle injection	Fluid Mechanics	Computational Fluid Dynamics	Ayrton Cavallini Zotelle
Thursday Nov. 14th, 2024	ROOM 1	11:45 – 12:00	679	A computational model for simulating static filtration process with particle deposition and external filter cake build-up	Fluid Mechanics	Computational Fluid Dynamics	Pedro Kropf de Azevedo
Thursday Nov. 14th, 2024	ROOM 1	12:00 – 12:15	542	Numerical simulation of single phase flow through thin orifices	Fluid Mechanics	Computational Fluid Dynamics	Lucas Polli
Thursday Nov. 14th, 2024	ROOM 2	09:30 – 09:45	218	EXPERIMENTAL ANALYSIS OF PARTICLE DYNAMICS IN EROSION SYSTEMS: "T" JUNCTION	Fluid Mechanics	Multi-phase Flow	Dayanne Martins da Silva
Thursday Nov. 14th, 2024	ROOM 2	09:45 – 10:00	102	Kelvin-Helmholtz and Rayleigh-Taylor instability problems using lattice-Boltzmann models for immiscible fluids	Fluid Mechanics	Multi-phase Flow	Maria Rosa Amorim Faria Lisboa
Thursday Nov. 14th, 2024	ROOM 2	10:00 – 10:15	103	DETERMINATION OF WAVE AMPLITUDE IN STRATIFIED DENSE-GAS/LIQUID FLOW FROM PHASE-FRACTION DISTRIBUTION OBTAINED VIA COLLIMATED GAMMA-RAY DENSITOMETRY	Fluid Mechanics	Multi-phase Flow	Cristhian Alvarez Pacheco
Thursday Nov. 14th, 2024	ROOM 2	10:45 – 11:00	147	Calculation of linear growth rates from three-dimensional Navier-Stokes simulations of miscible displacement flows	Fluid Mechanics	Multi-phase Flow	Bruno Jorge Macedo dos Santos
Thursday Nov. 14th, 2024	ROOM 2	11:00 – 11:15	91	A method based on similitude analysis to predict interfacial waves and film characteristics of annular flows	Fluid Mechanics	Multi-phase Flow	Edson Orati da Silva
Thursday Nov. 14th, 2024	ROOM 2	11:15 – 11:30	132	INTERFACIAL WAVE CLASSIFICATION IN A LOW-VISCOSITY HORIZONTAL CORE-ANNULAR FLOW VIA PLANAR LASER-INDUCED FLUORESCENCE.	Fluid Mechanics	Multi-phase Flow	Jorge Enrique Arrollo Caballero
Thursday Nov. 14th, 2024	ROOM 2	11:30 – 11:45	866	Methodology for pressure determination in free-surface viscoplastic fluid flows based on PIV velocity field data	Fluid Mechanics	Instrumentation and Experiments	Guilherme Henrique Fiorot
Thursday Nov. 14th, 2024	ROOM 2	11:45 – 12:00	558	Experimental setup for vertical particle suspension with viscosified fluid	Fluid Mechanics	Instrumentation and Experiments	Victor Santana
Thursday Nov. 14th, 2024	ROOM 2	12:00 – 12:15	122	APPLICATION OF MACHINE LEARNING TO PARAMETER OPTIMIZATION IN SPATIAL FILTER VELOCIMETRY FOR VELOCITY FIELD MEASUREMENT IN TUBE BUNDLE	Fluid Mechanics	Instrumentation and Experiments	Roberta Fatima Neumeister
Thursday Nov. 14th, 2024	ROOM 3	09:30 – 09:45	619	Matrix acidizing simulations for carbonate plugs: rheological influence for different viscoelastic acid systems, surfactant concentration, and temperature.	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Sérgio Taveira de Camargo Júnior
Thursday Nov. 14th, 2024	ROOM 3	09:45 – 10:00	186	RHEOLOGICAL ANALYSIS OF FLOW RESTART FOR WATER-BASED DRILLING FLUIDS: XG, HPMC AND HEC	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Julian Andres Jerez Suarez
Thursday Nov. 14th, 2024	ROOM 3	10:00 – 10:15	812	Rheological analysis of e-CSB fluid to simulate sedimented bed	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Guilherme Mühlstedt
Thursday Nov. 14th, 2024	ROOM 3	10:45 – 11:00	616	Plate heat exchanger analysis operating with refrigerant R410A	Heat and Mass Transfer	Applied Heat and Mass Transfer	Gabriela Pereira Toledo
Thursday Nov. 14th, 2024	ROOM 3	11:00 – 11:15	462	Experimental Analysis of Water-Monoethylene Glycol Mixing in a Horizontal Pipeline	Heat and Mass Transfer	Applied Heat and Mass Transfer	Pedro Leineker Ochoski Machado
Thursday Nov. 14th, 2024	ROOM 3	11:15 – 11:30	281	EVALUATION OF PCM BASED THERMAL ENERGY STORAGE SYSTEM FOR FUTURE MICROGRAVITY EXPERIMENTS	Heat and Mass Transfer	Applied Heat and Mass Transfer	Kelvin Guessi Domiciano

Thursday Nov. 14th, 2024	ROOM 3	11:30 – 11:45	142	ASSESSMENT OF THERMAL PERFORMANCE OF SUBSEA ENCLOSURE GEOMETRIES	Heat and Mass Transfer	Applied Heat and Mass Transfer	Lucas Militão
Thursday Nov. 14th, 2024	ROOM 3	11:45 – 12:00	154	AN OVERVIEW OF HEAT TRANSFER IN SUPERCRITICAL CO2 FLOW	Heat and Mass Transfer	Applied Heat and Mass Transfer	Victor Gouveia Ferrares
Thursday Nov. 14th, 2024	ROOM 3	12:00 – 12:15	236	Experimental analysis of a thermal control system for photovoltaic panels of CubeSats	Heat and Mass Transfer	Applied Heat and Mass Transfer	Carlos Eduardo Bibow Corrêa
Thursday Nov. 14th, 2024	ROOM 4	09:30 – 09:45	532	Analysis of the Influence of Ocean Roughness on Offshore Wind Potential using Linearized Models	Energy and Thermal Systems	Biofuels and Renewable Energy	Max Weissheimer
Thursday Nov. 14th, 2024	ROOM 4	09:45 – 10:00	545	Thermodynamic evaluation of methanol and dimethyl ether production via biomass gasification in Brazilian distilleries	Energy and Thermal Systems	Biofuels and Renewable Energy	Mateus Rocha
Thursday Nov. 14th, 2024	ROOM 4	10:00 – 10:15	578	Heliostat movement control by image recognition	Energy and Thermal Systems	Biofuels and Renewable Energy	George John Orbezo Alvarez
Thursday Nov. 14th, 2024	ROOM 4	10:45 – 11:00	622	Wind resource assessment through reanalysis data using the commercial software WASP	Energy and Thermal Systems	Biofuels and Renewable Energy	Max Weissheimer
Thursday Nov. 14th, 2024	ROOM 4	11:00 – 11:15	663	Overview of Physical and Chemical Characterization Techniques Applied on Biomass Conversion	Energy and Thermal Systems	Biofuels and Renewable Energy	Luiz Felipe da Silva Ferreira
Thursday Nov. 14th, 2024	ROOM 4	11:15 – 11:30	672	STUDY OF THE IMPACT OF SHADING ON THE EFFICIENCY OF PHOTOVOLTAIC PANEL	Energy and Thermal Systems	Biofuels and Renewable Energy	Matheus Macedo
Thursday Nov. 14th, 2024	ROOM 4	11:30 – 11:45	674	Nitrate Source Optimization for Microalgae Cultivation for Biofuels Production	Energy and Thermal Systems	Biofuels and Renewable Energy	Murilo Gasparin Rampi
Thursday Nov. 14th, 2024	ROOM 4	11:45 – 12:00	718	Prediction of biodiesel properties from microalgae for application in engines.	Energy and Thermal Systems	Biofuels and Renewable Energy	Abner Pereira
Thursday Nov. 14th, 2024	ROOM 4	12:00 – 12:15	735	MICROALGAE: A POTENTIAL RESOURCE FOR AVIATION BIOFUEL AND THE DECARBONIZATION OF THE AVIATION SECTOR	Energy and Thermal Systems	Biofuels and Renewable Energy	CARLA CRISTINA LOURES
Thursday Nov. 14th, 2024	ROOM 5	09:30 – 09:45	344	Characterization of boundary layers in solar chimneys from numerical simulations with CFD techniques	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Daniel Croza
Thursday Nov. 14th, 2024	ROOM 5	09:45 – 10:00	353	Symbolic Regression Applied to Regenerative Heat Exchanger	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Vitor Fernandes Egger
Thursday Nov. 14th, 2024	ROOM 5	10:00 – 10:15	552	A constructal theory based numerical study applied to heat sinks	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Gustavo Pereira
Thursday Nov. 14th, 2024	ROOM 5	10:45 – 11:00	618	Thermal Performance Enhancement in Rectangular Cavities with Phase Change Materials Through Fin Aspect Ratio Design: A Constructal Design Approach	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Guilherme Ribeiro
Thursday Nov. 14th, 2024	ROOM 5	11:00 – 11:15	655	HEAT EXCHANGER SIMULATION CONSIDERING THERMAL-VARIATING PROPERTIES USING THE LATTICE BOLTZMANN METHOD	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Julia Sassa
Thursday Nov. 14th, 2024	ROOM 5	11:15 – 11:30	851	PARTICLE SWARM OPTIMIZATION APPLIED TO THE REDUCTION OF TEMPERATURE STRATIFICATION IN HEAT CONDUCTION PROBLEMS	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Andre Flora
Thursday Nov. 14th, 2024	ROOM 5	11:30 – 11:45	192	Improving Internal Tumor Treatment Outcomes Through Integrated Ultrasound Acoustic Pressure and Bioheat Transfer Modeling	Heat and Mass Transfer	Numerical Heat and Mass Transfer	João Bragança
Thursday Nov. 14th, 2024	ROOM 5	11:45 – 12:00	810	Construction and characterization of heliostats for concentrated solar energy applications	Energy and Thermal Systems	Biofuels and Renewable Energy	Lina Maria Varon Cardona
Thursday Nov. 14th, 2024	ROOM 5	12:00 – 12:15	857	Numerical Study of Thermal Performance of Vacuum Tube Heat Waters Adapted for Peruvians Coastal Climatic and Geographic Scenario	Energy and Thermal Systems	Biofuels and Renewable Energy	Elder Mendoza Orbegoso
Thursday Nov. 14th, 2024	ROOM 6	09:30 – 09:45	577	SU2 verification and airfoil profile analysis from the ADAM team	Fluid Mechanics	Computational Fluid Dynamics	Pietro Batistussi Franca

Thursday Nov. 14th, 2024	ROOM 6	09:45 – 10:00	587	Comparative Analysis of Backward and Forward Swept Blades for Hydrokinetic Turbines: A Numerical Study	Fluid Mechanics	Computational Fluid Dynamics	Thiago Vieira de Souza
Thursday Nov. 14th, 2024	ROOM 6	10:00 – 10:15	199	NUMERICAL ANALYSIS OF WIND-INDUCED LOADS IN SOLAR TRACKER SYSTEMS	Fluid Mechanics	Computational Fluid Dynamics	Gabriel Gonçalves
Thursday Nov. 14th, 2024	ROOM 6	10:45 – 11:00	46	STUDY OF THE MIXING PROCESS IN A ROTATING DETONATION ENGINE WITH A NON-REACTIVE FLOW OF HYDROGEN AIR IN A NON-PREMIXED CONFIGURATION	Combustion	Engine Combustion	Thomas Williams Leite
Thursday Nov. 14th, 2024	ROOM 6	11:00 – 11:15	52	Study of the effects of oxygen-enriched air on biogas combustion for application in internal combustion engines	Combustion	Engine Combustion	Waldyr Gallo
Thursday Nov. 14th, 2024	ROOM 6	11:15 – 11:30	90	Evaluation and inventory of emissions from a bi-fuel turbo-charged engine operating with mixtures of CNG with H2g and biomethane with H2g using a phenomenological model	Combustion	Engine Combustion	Jullyane Raquel Almeida Nunes
Thursday Nov. 14th, 2024	ROOM 6	11:30 – 11:45	92	The Ethanol Solution for Power Generators in Brazil: contributions to decision-making to replace diesel added with biodiesel.	Combustion	Engine Combustion	Marcio Roberto Labigalini
Thursday Nov. 14th, 2024	ROOM 6	11:45 – 12:00	169	Numerical study of combustion, NOx emissions and efficiency in a Spark-Assisted Compression Ignition (SACI) natural gas engine	Combustion	Engine Combustion	Rayanne Nascimento
Thursday Nov. 14th, 2024	ROOM 6	12:00 – 12:15	684	GREEN HYDROGEN IN COMPRESSION IGNITION ENGINES TO REDUCE EMISSIONS IN SOUTHEAST BRAZIL: A CASE OF STUDY	Combustion	Engine Combustion	Paulo Henrique Santos
Thursday Nov. 14th, 2024	ROOM 7	09:30 – 09:45	73	The effect of hydrogen addition to Uruguayan natural gas on combustion behavior and interchangeability	Combustion	Chemical Kinetics and Modeling	Facundo Rivoir Engelhardt
Thursday Nov. 14th, 2024	ROOM 7	09:45 – 10:00	182	Computational modeling of a system for the application of pure ammonia in internal combustion engines of the Otto cycle.	Combustion	Chemical Kinetics and Modeling	Bruno Lourenço de Souza
Thursday Nov. 14th, 2024	ROOM 7	10:00 – 10:15	608	Analyzing Flame Surface Dynamics in Laminar Premixed Bunsen Flames with Inflow Modulations	Combustion	Chemical Kinetics and Modeling	Amir Antonio Martins Oliveira
Thursday Nov. 14th, 2024	ROOM 7	10:45 – 11:00	438	A TWO-DIMENSIONAL MODELING OF A PERMEABLE FLUID-POROUS INTERFACE IN COMSOL MULTIPHYSICS	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Ruan Schultz Rigueti
Thursday Nov. 14th, 2024	ROOM 7	11:00 – 11:15	414	STABILITY STUDY OF CONFINED INVERSE DIFFUSION FLAMES AT HIGH PRESSURES	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Lucas Güenter Fernandes
Thursday Nov. 14th, 2024	ROOM 7	11:15 – 11:30	437	HEAT PENETRATION AFFECTED BY IGNITION CONDITIONS OF A CHARCOAL BED	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	André Veríssimo Xavier
Thursday Nov. 14th, 2024	ROOM 7	11:30 – 11:45	494	A PRELIMINARY COMPUTACIONAL STUDY OF URBAN SOLID WASTE AND SUGARCANE BAGASSE INFLUIDIZED BED REACTORS	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Michel Silva Bonifácio
Thursday Nov. 14th, 2024	ROOM 7	11:45 – 12:00	441	Multiphase Modeling of Solid Propellant Detonation in Moving Projectiles	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Raphael Espíndola
Thursday Nov. 14th, 2024	ROOM 7	12:00 – 12:15	789	THREE DIMENSIONAL CFD STUDY OF RECIPROCATING GRATE BIOMASS BOILER	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Pedro Lucas Zamataro da Silva
Thursday Nov. 14th, 2024	ROOM 8	09:30 – 09:45	227	NUMERICAL VALIDATION OF A CONCEPT VEHICLE SIMULTANEOUSLY FUELED WITH LIQUID AND GASEOUS BIOFUELS	Combustion	Engine Combustion	Guilherme Sávio Souza
Thursday Nov. 14th, 2024	ROOM 8	09:45 – 10:00	389	Optimizing Efficiency and eliminating NOx Emissions of Hydrogen Port Fuel Injection Engines Through Lean Operation and Supercharging	Combustion	Engine Combustion	Mario Martins
Thursday Nov. 14th, 2024	ROOM 8	10:00 – 10:15	457	Study of Injection Start Injection Angle to Improve Efficiency in High and Ultra-High Pressure Gasoline Direct Injection	Combustion	Engine Combustion	Igor Rodrigues dos Santos
Thursday Nov. 14th, 2024	ROOM 8	10:45 – 11:00	197	Optimal Design of Brazilian Solar, Wind and Battery Hybrid Power Plants	Decarbonisation - ENCIT 2024	Renewable energies	Thiago Amaral
Thursday Nov. 14th, 2024	ROOM 8	11:00 – 11:15	321	Detailed model & experimental validation of a flat solar collector	Decarbonisation - ENCIT 2024	Renewable energies	RENZO GUIDO CRUZ

Thursday Nov. 14th, 2024	ROOM 8	11:15 – 11:30	430	VACUUM ENHANCED AIR GAP MEMBRANE DISTILLATION PILOT PLANT WITH SOLAR HEAT USE AND RECOVERY	Decarbonisation - ENCIT 2024	Renewable energies	Ingrid Curcino
Thursday Nov. 14th, 2024	ROOM 8	11:30 – 11:45	696	Analysis of thermal comfort in a standard house integrating phase change materials in Mexico	Decarbonisation - ENCIT 2024	Renewable energies	Robert Jäckel
Thursday Nov. 14th, 2024	ROOM 8	11:45 – 12:00	806	Comparative Assessment of Thermal Storage Technologies in Solar Disk Collectors: Conventional versus Phase Change Materials	Decarbonisation - ENCIT 2024	Renewable energies	Robert Jäckel
Thursday Nov. 14th, 2024	ROOM 8	12:00 – 12:15	881	DETERMINATION OF PARAMETERS IN PHOTOVOLTAIC SILICON MODULES AND NEW POLYNOMIAL FUNCTION FOR THE CALCULATION OF THE MAXIMUM POWER POINT	Decarbonisation - ENCIT 2024	Renewable energies	Darío Gerardo Fantini

Day	ID	Paper	Area	Sub-area	Presenter
Monday 11th	668	EVALUATION OF THE INFLUENCE OF GEOMETRY ON THE PERFORMANCE OF A SHELL AND TUBE HEAT EXCHANGER	Energy and Thermal Systems	Thermodynamics and Thermal Systems	João Pedro Lamounier Antunes de Almeida
Monday 11th	126	Rheological properties of paraffinic oil doped with reduced graphene oxide nanoparticles	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Roberta Gimenes
Monday 11th	156	Non-Newtonian Fluid Flow Stability Study modeled by LPTT and EPTT	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Andreza Beatriz
Monday 11th	250	A numerical investigation of the power coefficient of a horizontal axis hydrokinetic turbine	Fluid Mechanics	Industrial Applications and Turbomachinery	Luciano Noleto
Monday 11th	252	Nonlinear simulations of magnetorheological fluid droplets subjected to a radial magnetic field	Fluid Mechanics	Multi-phase Flow	Bruno Sohler
Monday 11th	263	Investigating the Influence of Dimensionless Parameters on Tubular Attenuator Efficiency for Flow Pulsation Reduction	Fluid Mechanics	Computational Fluid Dynamics	Lucas Antônio Silveira Silva
Monday 11th	267	Influence of the Release of Elongated Bubbles with Different Volumes in Stagnant Liquid	Fluid Mechanics	Multi-phase Flow	Beatriz Mohr Rosa Ribeiro
Monday 11th	301	SYNERGISTIC EFFECT OF XANTHAN GUM AND HYDROXYPROPYL METHYL CELLULOSE IN SATURATED BRINE FOR BENTONITE-FREE WATER-BASED DRILLING FLUIDS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	manuela perola
Monday 11th	302	IMPACT OF SALINITY ON THE PERFORMANCE OF XANTHAN GUM/HYDROXYETHYL CELLULOSE BLENDS IN WATER-BASED DRILLING FLUIDS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Leonardo Caviquioli dos Santos
Monday 11th	304	EFFECT OF ALCOHOL CONCENTRATION ON THE RHEOLOGICAL BEHAVIOR OF XANTHAN GUM IN WATER	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Eduarda Perussi
Monday 11th	307	Computational Simulation of Leaks in Submerged Pipeline Sections Subject to Advective Migration	Fluid Mechanics	Computational Fluid Dynamics	Gisele Oliveira
Monday 11th	315	Comparison of $\kappa$ - $\epsilon$ and Spalart-Allmaras turbulence models for the NACA 4412 airfoil	Fluid Mechanics	Computational Fluid Dynamics	luiz zinn
Monday 11th	333	BIOINSPIRED AERODYNAMICS APPLIED IN ELECTRICAL MOTORCYCLE RACING COMPETITION	Fluid Mechanics	Computational Fluid Dynamics	Lohanna Paiva
Monday 11th	334	OPTIMIZING WIND TURBINE EFFICIENCY: INSIGHTS FROM COMPUTATIONAL AERODYNAMICS	Fluid Mechanics	Computational Fluid Dynamics	Lohanna Paiva
Monday 11th	348	NUMERICAL SIMULATION OF LIQUID-SOLID FLOW OF VISCOPLASTIC FLUID IN AN ANNULAR SECTION THROUGH CFD-DEM COUPLING	Fluid Mechanics	Computational Fluid Dynamics	Joana Leonardi Gemeli
Monday 11th	364	VIRTUAL FLOW METER APPLIED TO SUBSEA LEAKS BY COMPUTATIONAL FLUID DYNAMICS	Fluid Mechanics	Computational Fluid Dynamics	Guilherme Diniz Rodrigues de Freitas
Monday 11th	378	Two-dimensional simulation study of single water droplet impact on isothermal surface with the Lattice-Boltzmann Method	Fluid Mechanics	Multi-phase Flow	Edilson Guimarães de Souza
Monday 11th	390	THROAT EFFECTS ON FLOW PATTERNS IN A CONVERGING-DIVERGING NOZZLE USED IN LD CONVERTERS	Fluid Mechanics	Computational Fluid Dynamics	João Filipe Calatrone Albuquerque Filho
Monday 11th	391	Comparative numerical analysis of refinement methods applied to a nozzle simulation in a LD converter	Fluid Mechanics	Computational Fluid Dynamics	Eloisa Menezes Pereira Coêlho
Monday 11th	399	NUMERICAL INVESTIGATION OF FLUID DISPLACEMENT ON AN IDEALIZED POROUS MEDIA USING VISCO-PLASTIC FLUIDS	Fluid Mechanics	Computational Fluid Dynamics	Rodrigo Prando Pedroni
Monday 11th	400	EVALUATION OF VISCOELASTIC FLUIDS APPLIED FOR ENHANCED OIL RECOVERY IN HETEROGENEOUS POROUS MEDIUM	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	João Victor Lopes Marchiori
Monday 11th	428	REAL TIME GPU BASED SIMULATION OF COOLING PROCESS FOR WIRE DRAWING SYSTEMS.	Fluid Mechanics	Computational Fluid Dynamics	Ana Clara Santos Mauri
Monday 11th	439	USE OF GPU ACCELERATED REAL TIME SIMULATIONS TO ANALYZE THE COOLING PROCESS OF A WIRE DRAWING DRUM USING INDUSTRIAL BLOWERS	Fluid Mechanics	Computational Fluid Dynamics	Andreza Thomaz Quaresma
Monday 11th	448	STUDY OF THE FLOW OF A WORMLIKE MICELLAR FLUID IN A MICROCHANNEL WITH A 90 ABRUPT CURVE	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	George Stephane Queiroz de Oliveira
Monday 11th	451	Discrete Sensing in Multiphase Fluid Level Detection	Fluid Mechanics	Instrumentation and Experiments	everton trento junior
Monday 11th	452	Development of a direct imaging sensor for Hydrate Monitoring in Rock-Flow Cells	Fluid Mechanics	Instrumentation and Experiments	everton trento junior
Monday 11th	472	Computational fluid dynamics for studying the dispersion of pollutants from motor vehicles in urban canyons	Fluid Mechanics	Computational Fluid Dynamics	Samuel Rebelo Zechinelli
Monday 11th	480	Displacement flow through enlarged regions in annular ducts	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Matheus Xavier
Monday 11th	509	High-speed imaging techniques for parameter measurement in liquid-dense gas systems	Fluid Mechanics	Multi-phase Flow	Guilherme Nascimento
Monday 11th	510	Flow-rate measurements in a SANIRI flume model	Fluid Mechanics	Instrumentation and Experiments	Robson Leal da Silva
Monday 11th	572	Comparative Analysis of Computational Fluid Dynamics Software for Aerodynamic Analysis of Airfoils	Fluid Mechanics	Computational Fluid Dynamics	Nathalia Sampaio Sant' Anna Marques
Monday 11th	573	Impact of Ice Accumulation on the Aerodynamic Performance of the NACA 2412 Airfoil	Fluid Mechanics	Computational Fluid Dynamics	Gabriel Suchodolak de Souza
Monday 11th	602	The influence of the nanoparticles concentration on the rheological behavior of mineral oil based SiO <sub>2</sub> nanofluids	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Adriano Júnior
Monday 11th	610	Analysis of Hydrodynamic Stability in Oldroyd-B Jet Flows: Comparison between Linear Stability Theory and High Order Numerical Simulation	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Rafael de Lima Sterza
Monday 11th	625	PHYSICAL PROPERTIES AND GELDART CLASSIFICATION OF AMAZONIAN RESIDUAL BIOMASSES IN FLUIDIZATION REGIMES	Fluid Mechanics	Multi-phase Flow	Carlos E R Silva
Monday 11th	628	Development of control and graphical interface of a test bench for internal combustion engines	Fluid Mechanics	Instrumentation and Experiments	Vinicius Rangel de Carvalho

Monday 11th	633	ANALYSIS OF DRAG REDUCTION IN INTERNAL FLOW USING ALOE VERA EXTRACT	Fluid Mechanics	Instrumentation and Experiments	Angélica Laura da Costa Bezerra
Monday 11th	635	ANALYSIS OF DRAG REDUCTION IN RIGID PIPES USING POLYETHYLENE OXIDE	Fluid Mechanics	Instrumentation and Experiments	Angélica Gomes
Monday 11th	643	Influence of thermal history on the rheological properties of mineral oil based SiO <sub>2</sub>	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	MICHEL CARNIATO DO AMARAL
Monday 11th	662	Polymer Encapsulation and its Effects on Drag Reduction	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Guilherme Rainho Melhorim
Monday 11th	704	COMPARATIVE ANALYSIS OF GAS PHASE VELOCITY IN TWO-PHASE FLOW USING OPTICAL AND RESISTIVE LOCAL SENSORS	Fluid Mechanics	Instrumentation and Experiments	Atila Pantaleão Silva Freire
Monday 11th	706	IMPACT OF GRAPHENE OXIDE SUSPENSIONS ON THE INTERFACES OF WATER DROPLETS SURROUNDED BY AIR, TOLUENE, AND PRIMOL OIL	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Monica Naccache
Monday 11th	707	DEGRADING SLUG FLOW AT HIGH MIXTURE VELOCITIES	Fluid Mechanics	Multi-phase Flow	Alessandro Eronides de Lima Silva
Monday 11th	713	Influence of the non-Newtonian contribution to the global instability of viscoelastic laminar separation bubbles	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Beatriz Liara Carreira
Monday 11th	716	Microphone array optimization for measurements of slat noise low-frequency tonal peaks.	Fluid Mechanics	Instrumentation and Experiments	Carlos Pagani
Monday 11th	768	EXPERIMENTAL CHARACTERIZATION OF PERMEABILITY AND POROSITY IN FIXED BEDS OF NON-UNIFORM PARTICLES FOR CFD SIMULATIONS IN ELECTROCHEMICAL REACTORS	Fluid Mechanics	Instrumentation and Experiments	Fabrizio Torres Borghi
Monday 11th	774	EVALUATION OF THE INFLUENCE OF GRAPHENE ON PENTOXIDE COATING NIOBIUM, ALUMINUM DEPOSITED VIA THERMAL SPRAYING FLAME POWDER: CORROSION RESISTANCE	Fluid Mechanics	Instrumentation and Experiments	Jolena Soares
Monday 11th	780	Low-cost thermistor calibration device	Fluid Mechanics	Instrumentation and Experiments	Lucas Pasqual Fernandes
Monday 11th	781	Numerical simulation of filling a rotating horizontal cylindrical cavity	Fluid Mechanics	Computational Fluid Dynamics	Téo Maftei Heringer
Monday 11th	790	INFLUENCE OF SUPERHYDROPHOBIC SURFACES ON SLUG FLOW IN VERTICAL DUCT	Fluid Mechanics	Multi-phase Flow	Marcello Souza
Monday 11th	804	INFLUENCE OF HYDROPHOBIC SURFACES ON THE HYDRODYNAMICS OF A BUBBLE COLUMN	Fluid Mechanics	Multi-phase Flow	Samuel Portal
Monday 11th	883	Application of Resistivity Sensors for Detecting Fluid Replacement in Pipes	Fluid Mechanics	Instrumentation and Experiments	Fabio Eliogo Senhor
Monday 11th	945	NUMERICAL INVESTIGATION OF THE HEIGHT BED INFLUENCE ON LIQUID-SOLID FLOW IN HORIZONTAL OIL WELLS	Fluid Mechanics	Rheology and Non-Newtonian Fluid Mechanics	Sarah Nunes Argentin
Monday 11th	580	DRAG REDUCTION ANALYSIS IN SINGLE-PHASE AND MULTIPHASE FLOW WITH HYDROCARBON-SOLUBLE POLYMER	Fluid Mechanics	Multi-phase Flow	Kelvin Barbosa
Monday 11th	61	NUMERICAL HEAT TRANSFER EVALUATION OF ABSORBER FOAMS WITH APPLICATION IN VOLUMETRIC RECEIVERS	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Kelvin Oliveira
Monday 11th	71	Two-phase thermosyphon: an experimental evaluation of the condenser internal Nusselt number	Heat and Mass Transfer	Applied Heat and Mass Transfer	Mauricio Zanardi
Monday 11th	358	NUMERICAL STUDY OF WATER INFILTRATION IN POROUS MEDIA MODELED BY THE RICHARDS EQUATION	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Mario Jorge dos Reis Moura
Monday 11th	362	Study of the Efficiency of a Compact Heat Exchanger through Computational Simulation	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Carlos Henrique De Paula Junior
Monday 11th	385	NEW RESISTANCE-CAPACITANCE THERMAL MODELS FOR PREDICTION OF HEAT TRANSFER TRANSIENT RESPONSES	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Andreza Ribeiro
Monday 11th	429	Modeling and Comparative Analysis of Thermal Radiation Heat Transfer in Industrial Furnaces	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Arthur Gomes Almeida
Monday 11th	454	Educational robotics and multi-methods investigation applied to heat conduction in a cylindrical extended surface.	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Erick Bernabe Zanelato
Monday 11th	487	Design of a waste to energy power plant to process industrial residues: part 1	Heat and Mass Transfer	Applied Heat and Mass Transfer	Guilherme Scarafiz
Monday 11th	499	Numerical Study of Fluid Flow and Heat Transfer in a Tubular Solar Collector With Porous Inserts	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Eron Aiolfi
Monday 11th	537	Numerical simulation of natural convection heat transfer in a porous cavity	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Felipe Coelho de Andrade Fava
Monday 11th	549	DESIGN VALIDATION OF THE BATTERY THERMAL MANAGEMENT SYSTEM OF A BATTERY ELECTRIC VEHICLE THROUGH EXPERIMENTAL DATA FROM VEHICLE TESTS	Heat and Mass Transfer	Applied Heat and Mass Transfer	Bruno Ferreira Rossanês
Monday 11th	661	Flow velocity profile for PCM solidification	Heat and Mass Transfer	Heat and Mass Transfer Fundamentals	Cesar Filho
Monday 11th	671	Detection of Defects in Additive Manufacturing Using Active Infrared Thermography	Heat and Mass Transfer	Applied Heat and Mass Transfer	Alisson Figueiredo
Monday 11th	675	IMPROVEMENT OF AN ELECTROLYTICALLY TREATED HEATER TO INCREASE THE EFFICIENCY OF ITS BOILING SURFACE	Heat and Mass Transfer	Applied Heat and Mass Transfer	Nelson Yurako Londono Pabon
Monday 11th	908	Thermal Analysis of Organic Fluids in Internal Flow Systems	Heat and Mass Transfer	Numerical Heat and Mass Transfer	Daniel Chalhub
Monday 11th	725	Data-Driven Bayesian Modeling Using Approximate Bayesian Computation for Heat Exchanger Monitoring	Heat and Mass Transfer	Applied Heat and Mass Transfer	Vitória Batista Godoy
Monday 11th	99	Influence of Bubble Diameter on Two-Phase Air-Water Flow in 180° Curved Ducts: A Similarity with Two-Phase Flow in Rotor Channels of Submarine Centrifugal Pumping Systems (ESPS)	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Jessica Palma Silva
Monday 11th	477	INFLUENCE OF SALINITY ON XG/HPMC MIXTURES AS VISCOSIFIERS IN WATER-BASED DRILLING FLUIDS	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Vanessa Aparecida Pereira Neves de Andrade
Monday 11th	484	Experimental Evaluation of HPHT Effects on the Rheology of Olefin-Based Drilling Fluids	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Flávia Krugel
Monday 11th	513	Effects of thermal degradation and evaluation of rheological properties of mineral-based completion fluids for temporary abandonment of oil wells	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Augusto Sigwalt
Monday 11th	653	Experimental investigation of the temperature influence in calcium carbonate scaling at high Reynolds number pipe flow	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Matheus Ferreira Gomes



Monday 11th	865	Synthetic Lightweight Drilling Fluid Formulation	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Patricia Viera de Oliveira
Monday 11th	867	A methodology to build velocity and pressure profiles for smart completions systems	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Hiago Souza da Silva
Monday 11th	887	Crystal Morphology Effects on Rheology: Investigating Three Paraffin Types	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Julio Jorge de Almeida Abdala
Monday 11th	905	Development of a Simplified New Drilling Fluid with Rheological Properties Comparable to Petrobras' Formulation	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Laura Fortes
Monday 11th	666	RANS Simulation to Investigating the Effects of Wind Turbine Height and Proximity to Forest Edge	Fluid Mechanics	Computational Fluid Dynamics	Rafael Castilho Faria Mendes
Monday 11th	710	Computational analysis of natural ventilation behavior in a building for different wind incidence conditions	Fluid Mechanics	Computational Fluid Dynamics	Fabrcio Torres Borghi
Monday 11th	123	NUMERICAL STUDY OF THE INFLUENCE OF BLOOD VISCOSITY IN THE AORTA ARTERY WITH CONTINUOUS FLOW LEFT VENTRICULAR ASSISTANCE SUPPORT PUMP	Bioengineering	Bioengineering	Aurélio Ferreira da costa
Monday 11th	114	CHANGE IN THE PRESSURE DROP BEHAVIOR OF A NEWTONIAN LIQUID-SOLID FLOW WITH STATIC PARTICLE-BED	Fluid Mechanics	Multi-phase Flow	Pedro Henrique Pereira Pelaquini dos Santos
Tuesday 12th	189	Preliminary theoretical evaluation of HTPB fuel and "Nytrox" oxidizer applied to hybrid rocket motor	Aerospace Engineering	Propulsion	Lucca Panice Pedro
Tuesday 12th	554	Recent advances around biobutanol and high-test peroxide and their potential use as storable green rocket propellants	Aerospace Engineering	Propulsion	Tomé Cruz Fernandes
Tuesday 12th	136	A Study of Nonlinear Eddy-Viscosity Turbulence Models for External Aerodynamic Flows	Aerospace Engineering	Aerodynamics	Thamires das Chagas Silva
Tuesday 12th	11	EFFECT OF TIME AND VELOCITY ON THE PROFILE OF THE THREE-DIMENSIONAL DIFFUSION FLAME EQUATION IN NG-H2 MIXTURES	Combustion	Chemical Kinetics and Modeling	Diego Jhovanny Mariños Rosado
Tuesday 12th	29	Gasification as an alternative for harnessing the energy potential of poultry litter	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Victória Lima
Tuesday 12th	31	Evaluation of the Quality of Pellets Produced from Different Blends of Floated Sludge from Poultry Slaughterhouse Wastewater Treatment Plant and Pinus Sawdust for Heat Generation	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Victória Lima
Tuesday 12th	37	ANALYSIS AND NUMERICAL SIMULATION OF SYNTHESIS GAS COMBUSTION FOR APPLICATION IN INTERNAL COMBUSTION ENGINES	Combustion	Engine Combustion	Carlos Alberto Silva
Tuesday 12th	225	Pyrolysis of the mixture between sugarcane bagasse and high-density polyethylene waste for energy purposes	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Ana Helena Campos Pereira
Tuesday 12th	232	Utilization of biogas and biomethane in an internal combustion engine: assessment of the energy consumption involved in purification and its final utilization	Combustion	Engine Combustion	Luís Pedro Vieira Vidigal
Tuesday 12th	242	STUDY OF THE CONCEPT OF DIESEL AND ETHANOL DUAL-FUEL IN A SINGLE-CYLINDER RESEARCH ENGINE.	Combustion	Engine Combustion	Fábio Dias
Tuesday 12th	243	Relationship between visual detection of diffusive flames and soot emission in an optical access spark ignition engine	Combustion	Engine Combustion	Enrico Rapetti Malheiro de Oliveira
Tuesday 12th	294	The Use of GT-SUITE Software to Evaluate the Performance and Emissions of an Otto Bi-Fuel Engine Powered by Ethanol and CNG	Combustion	Engine Combustion	Davi Ferreira
Tuesday 12th	310	Development of a highly efficient ethanol port fuel injection engine optimized for a range extender application	Combustion	Engine Combustion	Frederico Weissinger
Tuesday 12th	404	Study of Ethanol Combustion in Direct Injection Spark Ignition Engine with Passive Pre-chamber Ignition	Combustion	Engine Combustion	Enrico Rapetti Malheiro de Oliveira
Tuesday 12th	497	MODELING A SMALL-SCALE GASIFIER USING COCOA AND PALM OIL BIOMASS	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Ryã Háfel dos Santos Souza
Tuesday 12th	498	Comparison of different systems used to reduce emissions nitrogen oxides in diesel engines.	Combustion	Engine Combustion	Joabe Santos
Tuesday 12th	525	Sinergy between Diesel and hydrogen for the transportation industry, Fuel surrogates, Detailed kinetics models, Cantera, Internal Combustion Engines.	Combustion	Chemical Kinetics and Modeling	Felipe Kraus
Tuesday 12th	693	Development of a VW EA211 engine accelerator system on a test bench	Combustion	Engine Combustion	Lucas Estrela Lopes
Tuesday 12th	753	Analysis of the Ignition Quality of N-heptane and Soy Biodiesel in a Constant Volume Combustion Chamber	Combustion	Engine Combustion	Monizi Couto Lima
Tuesday 12th	787	Experimental Analysis of Water Injection in Diesel Cycle Engines for Emissions Research, using alternative components for the system.	Combustion	Environmental Engineering	Mateus Evangelista
Tuesday 12th	828	Primary computational model of a double-bed reactor for Chemical Looping Combustion of methane.	Combustion	Chemical Kinetics and Modeling	Dione da Silva Melo
Tuesday 12th	838	Adiabatic temperature of the synthesis gas flame in the calcination furnace: intercomparison analysis using Cantera and Glenn polynomials.	Combustion	Combustion, Pyrolysis and Gasification of Solids and Liquids	Dione da Silva Melo
Tuesday 12th	893	Numerical simulation of methane/hydrogen non-premixed combustion with CFD	Combustion	Environmental Engineering	Amanda Mayer
Tuesday 12th	53	AN EXPERIMENTAL INVESTIGATION OF PROTON EXCHANGE MEMBRANE FUEL CELL PERFORMANCE	Decarbonisation	Fuel cell	silvio carlos anibal almeida
Tuesday 12th	207	ANALYSIS OF EMISSIONS FROM A DIESEL ENGINE WITH ADDITION OF GREEN HYDROGEN	Decarbonisation	Hydrogen	Flávio Júnior Santiago Silva
Tuesday 12th	277	Environmental impact of offshore wind farms. Study case: Uruguay	Decarbonisation	Renewable energies	Rodrigo Gutiérrez
Tuesday 12th	293	Numerical modeling of liquid-gas two-phase flow in a hydrogen production cell	Decarbonisation	Hydrogen	Giovanni Paolo Montagnoli
Tuesday 12th	373	ASSESSMENT OF BIOCHAR FROM EUCALYPTUS BARK AS CEMENT REPLACEMENT FOR DEVELOPING SUSTAINABLE CONCRETE	Decarbonisation	Building & Construction	Paulo Eduardo Souza de Quevedo
Tuesday 12th	503	Comparison Between Reduced Model and Real Data in Wind Farm Energy Production	Decarbonisation	Renewable energies	Jeferson Maciel
Tuesday 12th	648	Simulation of a hybridized power generation system on ships with transient power demands	Decarbonisation	Energy efficiency	Marcus Vinicius Adorno Borges Pinto
Tuesday 12th	664	COMPARATIVE ANALYSIS BETWEEN THREE WAYS OF USING PHOTOVOLTAIC SOLAR ENERGY	Decarbonisation	Renewable energies	Mario Benjamim Baptista de Siqueira
Tuesday 12th	724	Evaluation of ethanol conversion into hydrogen via steam reforming process: a thermodynamic equilibrium-based approach	Decarbonisation	Hydrogen	Hugo Valença de Araújo
Tuesday 12th	926	Thermal performance characterization of a low-cost parabolic trough concentrator with mirror mosaic sheets as reflective material	Decarbonisation	Renewable energies	Taciano Sorrentino

Tuesday 12th	34	Progress in supercritical water gasification of lignocellulosic biomass for hydrogen generation	Energy and Thermal Systems	Biofuels and Renewable Energy	Thiago Bimestre
Tuesday 12th	70	MATHEMATICAL MODELING AND SIMULATION OF RECOVERY HEAT EXCHANGER	Energy and Thermal Systems	Biofuels and Renewable Energy	Paulo Cesar Semicek
Tuesday 12th	84	MODELING AND OPTIMIZATION OF A COMBINED CYCLE THERMAL POWER PLANT WITH BIOMASS GASIFICATION SYSTEM THROUGH CO-FIRING.	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Isabele De Paula
Tuesday 12th	138	THE EXTRACTION KINETICS OF OIL FROM SPENT COFFEE GROUNDS USING HEXANE AS SOLVENT	Energy and Thermal Systems	Biofuels and Renewable Energy	Ingrid Mayer Krinski
Tuesday 12th	203	ADHERENCE ANALYSIS OF WEIBULL DISTRIBUTION ACCORDING TO THE ESTIMATION METHOD OF SHAPE AND SCALE PARAMETERS	Energy and Thermal Systems	Biofuels and Renewable Energy	Rafael Espindola
Tuesday 12th	223	HYDROELECTRIC POWER GENERATION: A COMPARATIVE ANALYSIS OF STATISTICAL AND ARTIFICIAL INTELLIGENCE FORECASTING METHODS APPLIED TO BRAZILIAN SOUTHERN REGION	Energy and Thermal Systems	Biofuels and Renewable Energy	Willian de Souza Cordeiro
Tuesday 12th	228	Simulation and optimization of a free-piston engine powered by syngas	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Evandro Evangelista Santos
Tuesday 12th	268	Hydrogen from urban solid waste in Uruguay	Energy and Thermal Systems	Thermo-Economic Analysis and Energy Policy	Gabriel Pena Vergara
Tuesday 12th	328	Oxidative torrefaction: The way to improve the energy density of sugarcane bagasse	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Juan Pablo Arteaga Ramos
Tuesday 12th	432	APPLICATION OF A TWO-STAGE HYBRID COMPRESSION-ABSORPTION REFRIGERATION SYSTEM USING WASTE HEAT FROM EXHAUST GAS OF BOILER AND FROM COMPRESSOR VAPOR	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Joao Pedro Donadeli Zanelati
Tuesday 12th	464	THERMODYNAMICS ANALYSIS OF A WATER HEAT TREATMENT UNIT FOR SUGAR-ALCOHOLIC PLANTS	Energy and Thermal Systems	Biofuels and Renewable Energy	Cassio Maia
Tuesday 12th	474	Thermodynamic Analysis and Optimization of a Microturbine Fueled by Biogas using Response Surface Methodology (RSM)	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Ana Elisa Achilles
Tuesday 12th	489	INTEGRATIVE APPROACH TO BIOMASS IMPROVEMENT: TORREFACTION AND DENSIFICATION OF EUCALYPTUS SAWDUST	Energy and Thermal Systems	Biofuels and Renewable Energy	Gabriel Alexandre Pio
Tuesday 12th	490	3E sensitivity analysis of a novelty solar supercritical carbon dioxide Brayton cycle / organic Rankine cycle dual loop for waste heat recovery with a Kalina cycle.	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Jose Tovar Andrade
Tuesday 12th	492	Energy, exergy and environmental impact analysis of a Brayton sCO <sub>2</sub> cycle with intercooling and reheating coupled to a recovery technology (DORC) in the municipality of Jaguaribe (CE) - Brazil from a concentrating solar power (CSP) tower.	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Juan Cordoba
Tuesday 12th	495	Experimental evaluation of solar drying of seedless grapes using forced and natural convection.	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Cristiana Maia
Tuesday 12th	505	HYDROGEN PRODUCTION FROM BIOGAS IN METHANE STEAM REFORMING REACTORS: A PARAMETRIC COMPUTATIONAL APPROACH	Energy and Thermal Systems	Biofuels and Renewable Energy	Fabrizio Torres Borghi
Tuesday 12th	519	THERMODYNAMIC ANALYSIS OF A SMALL-SCALE HELIOTHERMAL PLANT OPERATING ON ORGANIC RANKINE CYCLE WITH RECUPERATOR	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Fernando Goncalves de Souza
Tuesday 12th	529	AN OVERVIEW OF LINEAR FRESNEL REFLECTOR TECHNOLOGY – A LITERATURE REVIEW	Energy and Thermal Systems	Biofuels and Renewable Energy	Patricia Scalco
Tuesday 12th	530	EXPERIMENTAL STUDY OF A WALL-MOUNTED HEATER ASSISTED BY THE OPERATING PRINCIPLE OF THERMOSYPHONS	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Felipe Mercês Biglia
Tuesday 12th	546	SYNERGY OF BIOREMEDIATION OF LIVESTOCK WASTEWATER IN MICROBIAL FUEL CELLS BY MICROALGAE	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Thais dos Santos de Almeida
Tuesday 12th	561	Assessing the Impact of Temperature on Raisin Drying Kinetics Using Hybrid Solar-Electric Technology	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Bárbara Caroline Ricci Nunes
Tuesday 12th	563	EXPERIMENTAL ANALYSIS OF TRANSIENT PRESSURE BUILD UP IN AN ANNULAR PIPE PRESSURE VESSEL	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Jaime BARBUDO
Tuesday 12th	588	Thermodynamic analysis of the use of waste heat recovery in cement industry	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Fernando Haraoka
Tuesday 12th	613	AN OVERVIEW OF THE EFFECT OF CONTAMINANTS ON THE EFFICIENCY OF NATURAL GAS POWERED TURBINES	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Ederson Sandrin
Tuesday 12th	652	Proposal of a Cogeneration System for a Red Ceramics Industry	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Rafael Mendes Tukoff de Mita
Tuesday 12th	701	Current status and technological advancements in solar hybrid dryers: A review	Energy and Thermal Systems	Biofuels and Renewable Energy	Cristiana Maia
Tuesday 12th	752	PROPOSAL OF A COGENERATION SYSTEM FOR A DAIRY INDUSTRY	Energy and Thermal Systems	Thermodynamics and Thermal Systems	CLAUDIO PEIXOTO
Tuesday 12th	765	Optimizing Recuperative Heat Exchangers for Enhanced Energy Efficiency Using Reduced-Order Modeling with the Volume Element Method	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Diego de Lima Sousa
Tuesday 12th	788	Performance Improvements on Energy and Exergy Basis for a PCM Driven Single Effect Absorption Refrigeration System in Waste-to-Energy Power plant.	Energy and Thermal Systems	Biofuels and Renewable Energy	Abdel-Farid Mamadou Idrissou
Tuesday 12th	841	EXPERIMENTAL STUDY OF A BIPVT SYSTEM WITH STAGNANT AIR IN THE CITY OF JOAO PESSOA-PB	Energy and Thermal Systems	Biofuels and Renewable Energy	TAYNARA LAGO
Tuesday 12th	844	MICROALGAE-DERIVED OILY EXTRACTS: UNVEILING ANTIMICROBIAL POTENTIALS	Energy and Thermal Systems	Biofuels and Renewable Energy	Ana Julia Possamai de Oliveira
Tuesday 12th	852	Increased productivity of microalgae biomass <i>Scenedesmus</i> spp through heterotrophic cultivation	Energy and Thermal Systems	Biofuels and Renewable Energy	Anne Defranceschi Oliveira
Tuesday 12th	868	Analysis of the Biochemical Oxygen Demand of Vinasse for Hydrogen Production in a Microbial Electrolytic Cell	Energy and Thermal Systems	Biofuels and Renewable Energy	Luis Filipe Camargos
Tuesday 12th	912	THERMAL BEHAVIOR OF TORREFIED SUGARCANE BAGASSE IN DIFFERENT TORREFACTION ATMOSPHERES	Energy and Thermal Systems	Biofuels and Renewable Energy	Millos Julian Enrique Jinete Torres
Tuesday 12th	919	EFFECT OF OXIDATIVE DRY TORREFACTION PARAMETERS IN MINERAL FILLER ON THE ENERGY PROPERTIES OF EUCALYPTUS CHIPS	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Diego Lima
Tuesday 12th	920	ENERGY DENSIFICATION OF EUCALYPTUS WOOD PELLETS THROUGH DRY TORREFACTION	Energy and Thermal Systems	Biofuels and Renewable Energy	Carlos Manuel Romero Luna
Tuesday 12th	928	Comparison of Microalgae Biomass Oil Extraction Yield Using Different Methods for Green Fuel Production	Energy and Thermal Systems	Biofuels and Renewable Energy	Rúbia Rafaela Mocelin dos Santos
Tuesday 12th	139	Numerical study of CO <sub>2</sub> transcritical refrigeration system with and without ejector	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	Richard Samir Hernandez Mesa
Tuesday 12th	162	SOLUTION HEAT EXCHANGER DISTRIBUTED MODEL OF A NH <sub>3</sub> /H <sub>2</sub> O/H <sub>2</sub> SOLAR DIFFUSION ABSORPTION REFRIGERATOR FOR VACCINE STORAGE	Heating, Ventilation, Air-Conditioning and Refrigeration	Refrigeration	Gustavo Sana Trindade
Tuesday 12th	397	Thermodynamic Comparative Analysis of Air Conditioning Systems in Highway Buses	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	Jaqueline Dias

Tuesday 12th	461	Numerical Study of the Effects of the Hygrothermal Properties of Different Soils in the Behavior of an Air-Earth Heat Exchanger (AEHE)	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	Gustavo Chaves Carraro
Tuesday 12th	581	Cooling water temperature optimization of chilled water plants in hot climates	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	Mila Beatriz Iria Ossaille
Tuesday 12th	677	Utilization of microchannel heat exchangers in air conditioning systems – Literature review	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	Renan Fossen
Tuesday 12th	807	Comparative Analysis of CO2 Concentration Trends: Simulated Virtual Environments vs. Experimental Measurements	Heating, Ventilation, Air-Conditioning and Refrigeration	HVAC	Joilson Rosário
Tuesday 12th	145	Manufacture and characterization of microcapsules containing corrosion inhibitor	Nano and Microfluidic and Micro-Systems	Experimental methods in micro and nano-systems	Adria Rodrigues
Tuesday 12th	183	THERMAL-HYDRAULIC ANALYSIS OF MICRO-PIN FINS HEAT SINKS IN TWO-PHASE FLOW OF DI-WATER	Nano and Microfluidic and Micro-Systems	Experimental methods in micro and nano-systems	Ariany Moreira
Tuesday 12th	944	PHOTOVOLTAIC POWER PLANTS WITH BESS: A TECHNICAL AND ECONOMICAL ANALYSIS FOR BRAZILIAN MARKET	Energy and Thermal Systems	Biofuels and Renewable Energy	Jorge Alberto Lewis Esswein Jr
Tuesday 12th	407	Machine Learning prediction of the behavior of a small-scale solar chimney	Energy and Thermal Systems	Thermodynamics and Thermal Systems	Matheus Augusto Ferreira Soares
Tuesday 12th	118	REVIEW: INCENTIVE MECHANISMS FOR DISTRIBUTED GENERATION OF PHOTOVOLTAIC ENERGY APPLIED TO THE STATE OF RIO DE JANEIRO.	Energy and Thermal Systems	Thermo-Economic Analysis and Energy Policy	BRUNO CAMPOS DOS SANTOS
Tuesday 12th	637	HOW TO USE OMA(OPERATIONAL MODAL ANALISYS) FOR TURBOMACHINERY: PART 2	Offshore and Petroleum Engineering	Offshore and Petroleum Engineering	Adhemar Castilho