



**16<sup>th</sup> Brazilian Congress of Thermal Sciences and Engineering  
– ENCIT 2016 –**

# CONFERENCE PROGRAM

Sponsored by:



**November 07 - 10<sup>th</sup>, 2016  
VITORIA – ESPIRITO SANTO – BRAZIL**

Dear event participants, researchers, sponsors, invited speakers and listeners:

The organizing committee of ENCIT 2016 is proud to receive all of you in Vitoria !

We hope you enjoy your stay with us and appreciate the conference.

We are at your disposal to answer questions and assist you with anything you need about the event.

In this brochure you will find all information about the conference sessions, rooms, schedules and keynotes, but don't hesitate to ask for anyone of committee or volunteer staff, if necessary.

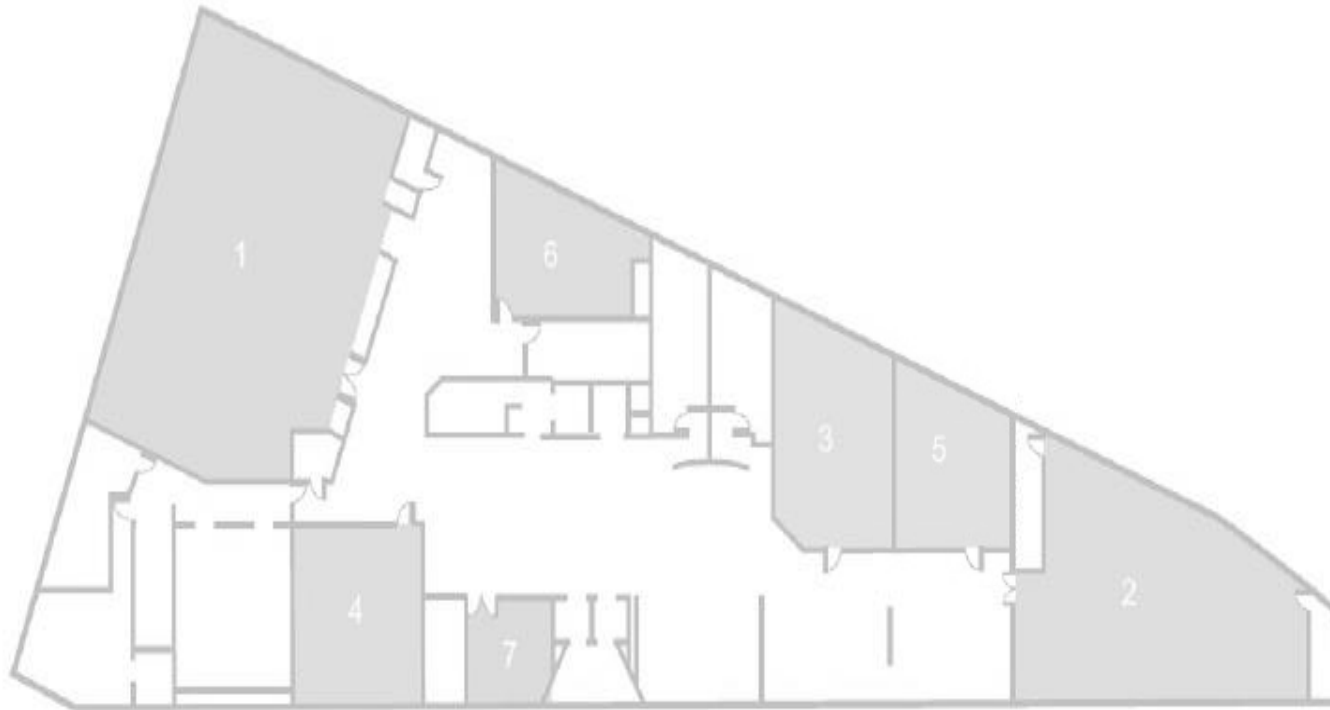
Thanks for coming and have a nice meeting!

**Organizing Committee of ENCIT 2016**

# ENCIT 2016: Invited Keynotes Schedule

DAY	INVITED SPEAKER	INSTITUTION	THEME
NOV 7 <sup>th</sup> 13:40	<b>Silvio de Oliveira Júnior</b>	Poli/USP	Efficiency, Cost and Renewability: a Thermodynamic Approach
NOV 7 <sup>th</sup> 17:00	<b>Gilmar Mompean</b>	Univ Lille	Numerical simulation of viscoelastic turbulent flows
NOV 8 <sup>th</sup> 11:00	<b>Oscar M. H.Rodriguez</b>	EESC/USP	Two and three-phase flows in horizontal and vertical pipes with heavy oil
NOV 8 <sup>th</sup> 13:40	<b>Vassilios Theofilis</b>	Univ Liverpool	Flow and flow instability around complex geometries at supersonic and hypersonic speeds
NOV 8 <sup>th</sup> 17:00	<b>Roney Leon Thompson</b>	COPPE/UFRJ	Challenges on modeling time-dependent elasto-viscoplastic materials.
NOV 9 <sup>th</sup> 11:00	<b>Zhi Jian Wang</b>	Univ Kansas	Towards large eddy simulations for industrial applications
NOV 9 <sup>th</sup> 14:40	<b>Electo E. Silva Lora</b>	Unifei	State-of-the-art of thermal power generation technologies using renewable energy sources: solar and biomass

# Sheraton Vitoria Hotel – Convention Centre



## Sheraton Vitoria Hotel - Convention Centre:

**1 - Sala Vitoria**

**2 - Sala Tubarão**

**3 - Sala Barra do Riacho**

**4 – Sala Praia Mole**

**5 – Sala Capuaba**

**6 – Sala Ubu**

# ENCIT 2016: Technical Sessions Schedule

## SALA VITÓRIA

Time slots		Monday 7	Tuesday 8	Wednesday 9	Thursday 10
Start	End				
08:00	08:20	Reception			
08:20	08:40				
08:40	09:00	Sponsor's words 1	4. Computational Fluid 2258	8. Multi Phase Flow : 1745	11. Multi Phase Flow : 2268
09:00	09:20	Sponsor's words 2	Dynamics : 2259	1858	2331
09:20	09:40	Sponsor's words 3	6007	2001	2341
09:40	10:00	Sponsor's words 4	Coffe Break 1	Coffe Break 1	Coffe Break 1
10:00	10:20	Coffe Break 1	5. 2225	9. 2136	2402
10:20	10:40	1268	Computational Fluid 2267	Multi Phase Flow : 2159	2405
10:40	11:00	1. 1379	Dynamics : 2269	2160	12. 2435
11:00	11:20	Computational Fluid 1543	Keynote Prof. Oscar Rodriguez	Keynote Prof. Zhi Wang	Multi Phase Flow : 2459
11:20	11:40	Dynamics : 1603			2483
11:40	12:00	1606			6008
12:00	12:20	Lunch (not included in conference fee)	Lunch (not included in conference fee)	Lunch (not included in conference fee)	
12:20	12:40				
12:40	13:00				
13:00	13:20				
13:20	13:40				
13:40	14:00	Keynote Prof. Silvio Oliveira	Keynote Prof. Vassilios Theofilis	10. 2178	
14:00	14:20			Multi Phase Flow : 2179	
14:20	14:40			2190	
14:40	15:00	2. 1620	6. 2343	Keynote Prof. Electo Lora	
15:00	15:20	Computational Fluid 2134	Computational Fluid 2370		
15:20	15:40	Dynamics : 2142	Dynamics : 2408		
15:40	16:00	Coffe Break 2	Coffe Break 2	Coffe Break 2	
16:00	16:20	3. 2182	7. 1211	EMBRAER Prize	
16:20	16:40	Computational Fluid 2194	Ind Applic 1542		
16:40	17:00	Dynamics : 2211	TurboMach : 6009		
17:00	17:20	Keynote Prof. Gilmar Mompean	Keynote Prof. Roney Thompson	ABCM Plenary Session	
17:20	17:40				
17:40	18:00				

# ENCIT 2016: Technical Sessions Schedule

## SALA VITÓRIA, MONDAY, NOV 7th: Paper codes key and titles

Time	Session	Paper code	Paper title
10:20	10:40	1	1268 Wind turbines: a study of the naca 63-415 and naca 6412 profiles and their applications in wind turbines
10:40	11:00		1379 Computational study of two-dimensional natural convection in a concentric horizontal annulus with a constant heat flux wall
11:00	11:20		1543 An analysis on the dynamics of a gas bubble in a centrifugal pump
11:20	11:40		1603 Numerical simulation of flow in thermal plasma torch under different operating conditions
11:40	12:00		1606 The finite elements method with the characteristic based split applied to laminar incompressible flows
14:40	15:00	2	1620 The atmospheric turbulent structure on hilly terrain with application in wind power generation
15:00	15:20		2134 Modelling and numerical simulation of slurry flow
15:20	15:40		2142 The influence of the cranial crest and the mandible on the aerodynamics and flight biomechanics of a brazilian pterosaur
16:00	16:20	3	2182 Importance of the injection time in manufacture of composites by rtm process
16:20	16:40		2194 Boxes structure construction around the clusters of vortex elements to reduce the computational cost of a lagrangian vortex method with roughness model
16:40	17:00		2211 Numerical simulation of the restart problem for thixotropic fluids

## SALA VITÓRIA, TUESDAY, NOV 8th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	4	2249 Numerical simulation of three-dimensional free surface flows of Giesekus fluids
8:20	8:40		2252 Numerical analysis of the incompressible fluid flow around a two-dimensional cylinder by high-order discontinuous galerkin method
8:40	9:00		2258 A numerical model of a thermal boundary layer
9:00	9:20		2259 Numerical analysis of heat transfer performance of a flat plate solar collector
9:20	9:40		6007 Semi-analytical solution to conjugate heat transfer in rectangular channels with isothermal boundaries
10:00	10:20	5	2225 Hybrid analysis of the mutual interaction between flow and magnetic fields inside a parallel plate channel
10:20	10:40		2267 Polymer melt flow in asymmetric sudden expansions: a numerical study
10:40	11:00		2269 Assessment of the dynamic pressure effect in 1d two fluid model for a vertical annular gas-liquid flow
14:40	15:00	6	2343 Nonlinear wave sloshing in walled containers
15:00	15:20		2370 Numerical modeling of effluent dispersion in rivers with different longitudinal diffusion coefficients
15:20	15:40		2408 Validation of the CFD simulation of a reduced scale stirred tank with a three-blade hydrofoil impeller
16:00	16:20	7	1211 Experiments on turbulent boundary layers over rough elements
16:20	16:40		1542 Numerical study on the influence of an adiabatic rectangular obstacle in a backward-facing step flow
16:40	17:00		6009 Asymptotic and numerical solutions of the Orr-Sommerfeld equation for surface waves on an inclined plane

# ENCIT 2016: Technical Sessions Schedule

## SALA VITÓRIA, WEDNESDAY, NOV 9th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	8	1233 Numerical simulation of two-phase slug flow using a hybrid code based on slug tracking and slug capturing methodologies
8:20	8:40		1578 An experimental investigation on fluidization of ternary mixture of coal, biomass and inert
8:40	9:00		1745 Experimental assessment of two-phase flow across sudden expansions and contractions
9:00	9:20		1858 Gas entrainment phenomenon inside an inverted-shroud gas separator
9:20	9:40		2001 Experimental study of gas-liquid-solid slug flow in horizontal pipelines
10:00	10:20	9	2136 Upstream disturbances induced by an orifice plate on a horizontal gas-liquid mixture flowing on the slug regime
10:20	10:40		2159 The effects of heat transfer and hydrate dispersion formations on the slug flow hydrodynamics
10:40	11:00		2160 Sensitivity analysis of a mechanistic heat transfer slug flow model to the frequency
13:40	14:00	10	2178 An experimental study of upward-vertical oil-water-gas three-phase flow: flow pattern, pressure drop and volumetric phase fraction
14:00	14:20		2179 Evaluation of wall shear stress distribution in upward slug flow
14:20	14:40		2190 Study of gas hydrate formation and deposition mechanisms in hydrocarbon systems

## SALA VITÓRIA, THURSDAY, NOV 10th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	11	2195 Dielectric constant of a near-azeotropic hfc blend (r410a) in liquid and gas phase
8:20	8:40		2216 Numerical analysis of pressure and void fraction waves in a transient two-phase flow using slug-tracking model
8:40	9:00		2268 Application of the drift flux model in a two-phase refrigerant flow through capillary tube
9:00	9:20		2331 Wire-mesh sensor applied in stratified liquid-liquid flow to obtain the entrainment factors
9:20	9:40		2341 Statistical analysis of downward slug flow in slightly inclined pipes
10:00	10:20	12	2402 Investigation of two phase flows in horizontal pipes subjected to transpiration at the wall
10:20	10:40		2405 Characterization of inclined gas jets in two-phase crossflow
10:40	11:00		2435 Influence analysis of slight direction changes on the transition from two-phase gas-liquid slug flow to stratified flow
11:00	11:20		2459 Linear stability analysis of stratified two-phase flow in a plane channel using numerical simulations
11:20	11:40		2483 Development of a new approach for the prediction of pattern transition of two-phase stratified flow in ducts and pipes
11:40	12:00	6008 CFD Simulation for performance analysis of heat exchangers shell & tube under different geometrical settings	

# ENCIT 2016: Technical Sessions Schedule

## SALA TUBARÃO

Time slots		Monday 7	Tuesday 8	Wednesday 9	Thursday 10
Start	End				
08:00	08:20	<b>Event at Sala Vitória</b>	1197	2310	2351
08:20	08:40		16. 2461	20. 2395	24. 2358
08:40	09:00		Thermodynamics and 2503	Thermodynamics and 2244	Intrumentation and 1257
09:00	09:20		Thermo Systems : 2340	Thermo Systems : 6003	Experiments : 2467
09:20	09:40		2256	6004	1548
09:40	10:00		<b>Coffe Break 1</b>	<b>Coffe Break 1</b>	<b>Coffe Break 1</b>
10:00	10:20	<b>Coffe Break 1</b>	2502	1532	1563
10:20	10:40	1572	2336	1343	25. 1574
10:40	11:00	13. 1167	17. 2193	21. 1719	Intrumentation and 2230
11:00	11:20	Thermodynamics and 1329	Thermodynamics and 1328	Thermo Systems : 1210	Experiments : 2263
11:20	11:40	Thermo Systems : 1863	1589	1531	2277
11:40	12:00	2460	1677	1355	26. Theor Anal Mod : 2202
12:00	12:20	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	
12:20	12:40				
12:40	13:00				
13:00	13:20				
13:20	13:40				
13:40	14:00				
14:00	14:20	2333	1164	1685	
14:20	14:40	14. 2363	18. 1637	22. 2375	
14:40	15:00	Intrumentation and 2372	Thermodynamics and 2446	Intrumentation and 6006	
15:00	15:20	Experiments : 2421	Thermo Systems : 1120		
15:20	15:40	1327	2378		
15:40	16:00	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	
16:00	16:20	1698	2297	23. 2301	
16:20	16:40	2348	1208	Computational Fluid 2302	
16:40	17:00	15. 2183	19. 2431	Dynamics : 6013	
17:00	17:20	Thermodynamics and 2210	Thermodynamics and 1334	<b>Event at Sala Vitória</b>	
17:20	17:40	Thermo Systems : 1864	Thermo Systems : 2198		
17:40	18:00	1301	2212		



# ENCIT 2016: Technical Sessions Schedule

## SALA TUBARÃO, MONDAY, NOV 7th: Paper codes key and titles

Time	Session	Paper code	Paper title
10:20	10:40	13	1572 Evaluation of a kalina cycle on a brazilian fpso to recovery waste heat and a comparasion with an orc
10:40	11:00		1167 Exergy analysis of a natural gas liquefaction cascade cycle
11:00	11:20		1329 Modeling and simulation of a two tanks sensible heat storage system in the brazilian semiarid region
11:20	11:40		1863 Thermodynamic evaluation of the regeneration effect in cogeneration systems for brazilian sugar and alcohol industry
11:40	12:00		2460 Simulation strategy of a novel scroll expander using remesh technique
13:40	14:00	14	2326 The pressure and velocity fluctuations after a row of cylinders in flow with turbulence intensity variation
14:00	14:20		2333 Development of a spray bar system for the simulation of supercooled water droplets in the midf climatic wind tunnel
14:20	14:40		2363 Drag reduction by a mixture of polymers and fibers extracted from okra pods in turbulent pipe flows
14:40	15:00		2372 Experimental investigation of the anti-icing properties of hydrophobic surfaces
15:00	15:20		2421 Comparisson between the drag reduction in axial flow in a concentric annuli space and a tube
15:20	15:40		1327 Influence of return bends on the pressure drop in an air cooled compact condenser of a refrigerating machine
16:00	16:20	15	1698 Evaluating of supercritical CO2 cycle and orc for the same heat source on a brazilian fpso
16:20	16:40		2348 Study of a wall solar chimney to remove air from the top of an indoor environment
16:40	17:00		2183 Optimization of thermal efficiency of flat plate solar collectors using matlab
17:00	17:20		2210 Design and construction of a dinamometer bench to 5.5 cv engines
17:20	17:40		1864 Thermodynamic evaluation of the reheating effect in cogeneration sytems for brazilian sugar and alcohol industry
17:40	18:00		1301 The improvement of the sugarcane plant efficiency using a hybrid thermodynamic cycle

## SALA TUBARÃO, TUESDAY, NOV 8th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	16	1197 Combustion analysis of a heavy-duty diesel engine from experimental data
8:20	8:40		2461 Review of high-temperature solid particle receiver/reactor concepts and materials
8:40	9:00		2503 Thermal analysis of two combined solar-heat pump domestic water heating systems
9:00	9:20		2340 Phase behavior of carbon dioxide hydrate systems: a comparison between sodium chloride and ethanol inhibition effect
9:20	9:40		2256 Simulation of an internal combustion engine using ecfm-3z combustion model in a cfd 3d commercial code compared to experimental results
10:00	10:20	17	2502 Repower of nuclear plant with natural gas
10:20	10:40		2336 Thermodynamic study of a hybrid solid oxide fuel cell and a gas turbine cycle
10:40	11:00		2193 São paulo state exergy analysis
11:00	11:20		1328 A review on adsorption refrigeration advanced cycles – cost benefit comparison
11:20	11:40		1589 A review on adsorption working pairs – equilibrium equations
11:40	12:00		1677 A review on adsorption dual-purpose hybrid systems – cooling and heating applications
13:40	14:00	18	2470 Thermodynamic evaluation of floating production storage and offloading facilities with liquefaction processes
14:00	14:20		1164 Experimental methodology for energy analysis in industrial high temperature furnaces
14:20	14:40		1637 Waste heat recovery from fuel cells applied in adsorption systems
14:40	15:00		2446 Performance evaluation of microturbines operating with second-generation biofuels
15:00	15:20		1120 Exergy analysis of a chemical recovery unit of a pulp and paper mill with the use of black liquor
15:20	15:40		2378 Energy and exergy analysis inside a trapezoidal solar chimney from shipping containers to improve thermal comfort
16:00	16:20	19	2297 Analysis of a humid air cycle in gas turbine
16:20	16:40		1208 Prediction of the joule-thomson coefficient from a cubic equation of state
16:40	17:00		2431 Rankine cycle power augmentation: orc and absorption chiller
17:00	17:20		1334 Performance analysis and optimization of irreversible air heat pump cycles based on coefficient of performance of exergy (cope)
17:20	17:40		2198 Thermodynamic analisys and simulation of an organic rankine cycle
17:40	18:00		2212 Steam distribution system: a discussion on energy lost during operation

# ENCIT 2016: Technical Sessions Schedule

## SALA TUBARÃO, WEDNESDAY, NOV 9th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	20	2310 Experimental study of two-phase flow oscillations in a natural circulation loop
8:20	8:40		2395 Performance analysis of a combined cycle for electricity generation with gas turbine compressor inlet air cooling
8:40	9:00		2244 Exergy analysis of a trigeneration system powered by solar energy using fresnel csp technology
9:00	9:20		6003 Energy analysis of beer brewing under batch process
9:20	9:40		6004 Potential energetic integration of municipal landfill effluents
10:00	10:20	21	1532 Numerical analysis on an indirect solar dryer
10:20	10:40		1343 Modeling of a Thermosyphon Solar Collector Using Experimental Data
10:40	11:00		1719 Contribution nuclear energy for no emission greenhouse gas
11:00	11:20		1210 Phase equilibria modeling of gas hydrates with mixture of inhibitors
11:20	11:40		1531 Numerical analysis of the convection inside evacuated tubes
11:40	12:00		1355 Heat Exchanger Design for Low Grade Waste Heat Recovery in Organic Rankine Cycle System of an FPSO
13:40	14:00	22	1380 Experimental studies on air bubble plumes in crossflow
14:00	14:20		1685 Characterization of bubble plumes in unsteady cross flow
14:20	14:40		2375 Numerical and experimental study of the generation of atmospheric boundary layer profile in wind tunnel
14:40	15:00		6006 Design and implementation of an aerodynamic balance and validation by analyzing airfoils in a subsonic wind tunnel
16:00	16:20	23	2301 Numerical analysis of a vertical ascendant two-phase flow in a cyclonic chamber under the action of centrifugal and gravitational fields
16:20	16:40		2302 Assessment of two discretization strategies to simulate the compression cycle of reciprocating compressors
16:40	17:00		6013 Computational Analysis of Aeroacoustic Effect of a Seal on Slat Cove for Different Angles of Attack

## SALA TUBARÃO, THURSDAY, NOV 10th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	24	2351 Imaging processing applied to gravity-driven granular flows through a vertical pipe
8:20	8:40		2358 Investigation of the turbulent boundary layer perturbed by a triangular ripple
8:40	9:00		1257 Experimental comparison of the velocity profiles of a wind tunnel after design, construction and installation of an inlet nozzle
9:00	9:20		2467 Investigation of flow patterns in finite cylinders
9:20	9:40		1548 Drag reduction by a mixture of polymers and fibers extracted from okra pods in turbulent pipe flows
10:00	10:20	25	1563 Experimental determination of a turbulent boundary layer perturbed by two low hills
10:20	10:40		1574 Analysis of the induced variability by co2 in readings of ultrasonic flow meters for flare gas
10:40	11:00		2230 Identification of wall interference parameters in two-dimensional testing in transonic wind tunnel using the psp technique
11:00	11:20		2263 Experimental study on a closed-conduit flow perturbed by a two-dimensional hill
11:20	11:40		2277 Distributed resistive sensor and web data management system for systematic studies of two phase gas-liquid flows
11:40	12:00	26	2202 Wind data analysis and wake modeling for a single wind turbine on flat terrain

# ENCIT 2016: Technical Sessions Schedule

## SALA BARRA RIACHO

Time slots		Monday 7	Tuesday 8	Wednesday 9	Thursday 10		
Start	End						
08:00	08:20	<b>Event at Sala Vitória</b>	1557	2360	1267		
08:20	08:40		30. 1281	34. 2369	38. 1558		
08:40	09:00		Biofuels and 1036	Biofuels and 2321	Refrigeration and 1608		
09:00	09:20		Alternative Energy : 2237	Alternative Energy : 2364	HVAC : 2138		
09:20	09:40		2366	1213	2155		
09:40	10:00		<b>Coffe Break 1</b>	<b>Coffe Break 1</b>	<b>Coffe Break 1</b>		
10:00	10:20	<b>Coffe Break 1</b>	2128	2307	2207		
10:20	10:40	2286	1218	1169	2238		
10:40	11:00	27. 2287	31. 2388	35. 2319	39. 2250		
11:00	11:20	Refrigeration and 2342	Applied Heat and 2504	Applied Heat and 6000	Refrigeration and 2253		
11:20	11:40	HVAC : 2345	Mass Transfer : 1370	Mass Transfer : 1644	HVAC : 2272		
11:40	12:00	2452	2163	6002			
12:00	12:20	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>			
12:20	12:40						
12:40	13:00						
13:00	13:20						
13:20	13:40						
13:40	14:00	2228	2126	1308			
14:00	14:20	2245	2292	1580			
14:20	14:40	28. 1427	32. 2224	36. 1706			
14:40	15:00	Applied Heat and 2362	Applied Heat and 1294	Refrigeration and 2154			
15:00	15:20	Mass Transfer : 2209	Mass Transfer : 2445	HVAC : 2257			
15:20	15:40	2289	1626	2389			
15:40	16:00	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>			
16:00	16:20	2374	2298	37. 2397			
16:20	16:40	2472	2505	Refrigeration and 2441			
16:40	17:00	29. 1324	33. 2214	HVAC : 2200			
17:00	17:20	Applied Heat and 2140	Applied Heat and 2164	<b>Event at Sala Vitória</b>			
17:20	17:40	Mass Transfer : 2177	Mass Transfer : 2438				
17:40	18:00		1372				

# ENCIT 2016: Technical Sessions Schedule

## SALA BARRA RIACHO, MONDAY, NOV 7th: Paper codes key and titles

Time	Session	Paper code	Paper title
10:20	10:40	27	2286 Analytical model of the magnetic field generated by nested infinite Halbach cylinders
10:40	11:00		2287 Optimization of multilayer active magnetic regenerators
11:00	11:20		2342 Simulation of a hydraulic circuit for a magnetic refrigerator
11:20	11:40		2345 Experimental measurement of adiabatic capillary tube performance on a vapor compression refrigeration cycle
11:40	12:00		2452 Nonlinear instability analysis in stratified flow pattern in liquid-liquid system
13:40	14:00	28	2228 Influence of flow rate and temperatures on the thermal efficiency of flat plate solar collectors
14:00	14:20		2245 Statistical analysis using minitab in the study of natural convection in heatsinks
14:20	14:40		1427 Modelling and analysis of a solar oven
14:40	15:00		2362 Numerical evaluation of the thermally stratified atmospheric wind tunnel
15:00	15:20		2209 A helical radial fins heat exchanger proposal for cooling air in a pneumatic system of a heavy vehicle
15:20	15:40		2289 A thermal efficiency analysis of gtau process in stainless steel
16:00	16:20	29	2374 Development and design of a workbench for rocket motor testing
16:20	16:40		2472 Transient thermal analysis of a magnetorheological clutch
16:40	17:00		1324 Reverse analysis via differential evolution applied in a heat exchanger
17:00	17:20		2140 A shell-and-tube heat exchanger optimization by differential evolution
17:20	17:40		2177 Optimization of plate-fin heat exchanger using adaptive differential evolution jade

## SALA BARRA RIACHO, TUESDAY, NOV 8th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	30	1557 Experimental analysis of a single-family heating system solar water in operating conditions
8:20	8:40		1281 Evaluation of alkaline membrane fuel cell (amfc) performance with cellulosic membrane
8:40	9:00		1036 Environmental and techno-economic analysis of a polygeneration system using biofuels
9:00	9:20		2237 Cavity receiver conception for chemical reactors using solar energy
9:20	9:40		2366 Study of the effects of preferential diffusion in ethanol laminar reactive flows
10:00	10:20	31	2128 CFD-dem simulation of a bubbling fluidized bed
10:20	10:40		1218 Wettability evaluation of super wetting surfaces coated with nanoparticles
10:40	11:00		2388 Numerical simulation of heat and mass transfer in a 2d lid-driven cavity
11:00	11:20		2504 Bayesian estimation of internal heat sources in multi layer insulated gate bipolar transistors (IGBT)
11:20	11:40		1370 A heat source model to simulate welding processes with magnetic deflection
11:40	12:00		2163 Thermal analysis of a coated cutting tool using comsol®
13:40	14:00	32	2126 Experimental evaluation of ablative properties in composites through bayesian inference
14:00	14:20		2292 Analysis of mathematical correlation for indirect determination of level in oil wells
14:20	14:40		2224 Performance evaluation of a drying equipment of fruits and vegetables for family farmers users
14:40	15:00		1294 Finite element analysis of a hot metal ladle reinforcement to increase its operating capacity
15:00	15:20		2445 Experimental evaluation on local heat transfer by forced convection in various geometries
15:20	15:40		1626 Mathematical modeling of a column purification of waste incineration exhaust gases
16:00	16:20	33	2298 Thermal evaluation of generator cooling system of Paraibuna HPP
16:20	16:40		2505 Theoretical and experimental analyses of 3d conjugated heat transfer problem in a igbt power module
16:40	17:00		2214 A lagrangian particle method for the heat transfer problem with buoyancy force
17:00	17:20		2164 Study of the influence of heat sink geometric parameters on natural convection using analysis of experimental tests and openfoam simulation
17:20	17:40		2438 Design of heat exchangers for waste heat recovery with the kalina cycle
17:40	18:00		1372 Numerical study of a rotary kiln. A case study of an industrial plant in paraguay.

# ENCIT 2016: Technical Sessions Schedule

## SALA BARRA RIACHO, WEDNESDAY, NOV 9th: Paper codes key and titles

Time		Session	Paper code	Paper title
8:00	8:20	34	2360	Heat transfer modeling in receiver/absorber of a dish/stirling
8:20	8:40		2369	Life cycle assessment for conventional vehicle, electric vehicle and plug-in electric vehicle for brazilian conditions
8:40	9:00		2321	Energy recovery from charcoal production in brazil: case study
9:00	9:20		2364	A thermogravimetric study on devolatilization of rice husk during pyrolysis
9:20	9:40		1213	Emission analysis in diesel engine using as fuel mixes containing diesel s10, tire pyrolysis oil and biodiesel from waste frying oil
10:00	10:20	35	2307	Numerical simulation of radiative transfer in heterogeneous materials with a null-collision monte carlo algorithm
10:20	10:40		1169	Numerical Simulation of Natural Convection Heat Transfer in Circular Fins
10:40	11:00		2319	Comparison of different wsgg approaches in numerical simulation of a non-premixed turbulent methane-air flame
11:00	11:20		6000	Development of a solar simulator for a real evaluation of photovoltaic-thermal system in tropical environments
11:20	11:40		1644	Numerical simulation of heat and mass transfer in a 2d lid-driven cavity
11:40	12:00		6002	Convective instability of the throughflow in a porous medium saturated by a fluid
13:40	14:00	36	1308	Evaluation on using weather data from cities listed in the nbr 16401 for air conditioning design in non-listed cities
14:00	14:20		1580	Analysis of classical controllers used in evaporative coolers in hot and dry climates
14:20	14:40		1706	Technical and economic analysis of a cogeneration power plant applied to a shopping mall
14:40	15:00		2154	A perspective on r&d&i activities in the brazilian mobile air conditioning market
15:00	15:20		2257	Software development to predict the flow water in beds adsorptive
15:20	15:40	37	2389	Assessment of ventilation rates using metabolic co2 concentrations in a surgical room conditioned with a window/wall air-conditioning system
16:00	16:20		2397	Analysis of the microclimate of são cristóvão and its influence in heating systems, ventilating and air conditioning (hvac)
16:20	16:40		2441	Experimental investigation on variable speed compressor with and electronic expansion valve in a refrigeration system
16:40	17:00		2200	Experimental evaluation of the thermal conductivity of frost built-up on parallel plate channels

## SALA BARRA RIACHO, THURSDAY, NOV 10th: Paper codes key and titles

Time		Session	Paper code	Paper title
8:00	8:20	38	1267	A numerical procedure for simulation of a household vapor compression refrigeration system under steady-state conditions using hfc-134a and hc-600a as refrigerants
8:20	8:40		1558	Transient model and energy assessment of a digital solenoid valve system for a magnetic refrigerator
8:40	9:00		1608	Use of cltd method for calculation of the cooling load of a modular surgical block
9:00	9:20		2138	Performance of a magnetic refrigerator operating with finite thermal conductance heat exchangers
9:20	9:40		2155	A theoretical analysis of the use of phase change materials in household refrigerators
10:00	10:20	39	2207	Hybrid control development for a household refrigeration system with two compartments
10:20	10:40		2238	Prediction of gas leakage in the piston-cylinder clearance of reciprocating compressors
10:40	11:00		2250	Comparative analysis of refrigeration systems used in supermarkets
11:00	11:20		2253	Experimental evaluation of a cascade refrigeration system
11:20	11:40		2272	A numerical and experimental investigation on skin condensers applied to household refrigerators

# ENCIT 2016: Technical Sessions Schedule

## SALA PRAIA MOLE

Time slots		Monday 7	Tuesday 8	Wednesday 9	Thursday 10
Start	End				
08:00	08:20	<b>Event at Sala Vitória</b>	2300	2479	2509
08:20	08:40		43. 1366	47. 2432	51. 2324
08:40	09:00		Combustion 2239	Combustion 2305	Combustion 2323
09:00	09:20		Environmental 2550	Environmental 2332	Environmental 2337
09:20	09:40		Engineering : 1149	Engineering : 6010	Engineering : 2273
09:40	10:00		<b>Coffe Break 1</b>	<b>Coffe Break 1</b>	<b>Coffe Break 1</b>
10:00	10:20	<b>Coffe Break 1</b>	2390	2414	2436
10:20	10:40	1200	44. 2396	48. 2306	1335
10:40	11:00	40. 1647	Combustion 2491	Combustion 2208	51.1. 6011
11:00	11:20	Biofuels and 2373	Environmental 2254	Environmental 1515	6012
11:20	11:40	Alternative Energy : 1702	Engineering : 2365	Engineering : 2572	
11:40	12:00	2284	94		
12:00	12:20	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	
12:20	12:40				
12:40	13:00				
13:00	13:20				
13:20	13:40				
13:40	14:00	1148	2338	1107	
14:00	14:20	2349	2415	2181	
14:20	14:40	41. 2330	45. 2276	49. 2189	
14:40	15:00	Biofuels and 1166	Alternative Energy : 2240	Bioengineering : 2271	
15:00	15:20	Alternative Energy : 2227	2368	1293	
15:20	15:40		6014	2339	
15:40	16:00	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	
16:00	16:20	2294	1555	50.	
16:20	16:40	2347	46. 1576	Pipping and Pressure	
16:40	17:00	42. 2427	Combustion 2496	Vessels :	
17:00	17:20	Biofuels and 2226	Environmental 1119	<b>Event at Sala Vitória</b>	
17:20	17:40	Alternative Energy : 1481	Engineering : 2223		
17:40	18:00	2549			

# ENCIT 2016: Technical Sessions Schedule

## SALA PRAIA MOLE, MONDAY, NOV 7th: Paper codes key and titles

Time	Session	Paper code	Paper title
10:20	10:40	40	1200 Hourly consumption curves of an agricultural microtractor operating with differents fuels
10:40	11:00		1647 Exergy analysis of the wood energy production chain
11:00	11:20		2373 Technical and environmental issues of hydrogen production processes from biogas and your use in pemfc
11:20	11:40		1702 Continuous torrefaction process for empty fruit bunches from oil palm trees
11:40	12:00		2284 Thermal analysis of a parabolic trough organic rankine cycle solar power system
13:40	14:00	41	1148 Numerical modelling of the multi-directional neutrally-stratified atmospheric boundary layer flow over real terrain through CFD for wind energy assessment
14:00	14:20		2349 Estimate of angstrom's turbidity coefficient to natal city
14:20	14:40		2330 Geometric and numerical analysis of the semicircular transition region between the hydropneumatic chamber and the chimney of an oscillating water column device using constructal design
14:40	15:00		1166 Biofuel use in hybrid solar micro gas turbine
15:00	15:20		2227 Numerical analysis of the influence of environmental parameters in solar updraft tower
16:00	16:20	42	2294 Microalgae biomass lipid extraction – an energy and cost analysis approach of process
16:20	16:40		2347 Construction of a savonius wind turbine and its performance evaluation
16:40	17:00		2427 Mathematical modeling of a direct ethanol fuel cell (defc)
17:00	17:20		2226 Thermal efficiency of a collector geometry based on the direct absorption solar colector using openfoam®
17:20	17:40		1481 Photovoltaic system to supply the energy needs of a remote community in haiti
17:40	18:00		2549 Emissions in two-stroke engine operating with non-commercial fuel blends (gasoline/ethanol)

## SALA PRAIA MOLE, TUESDAY, NOV 8th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	43	2300 Flame structure of diesel surrogate combustion in a counterflow diffusion flame
8:20	8:40		1366 CO2 sequester into carbonates using mining waste derived from asbestos fiber production
8:40	9:00		2239 Fluidization of mixtures of sand and wood bark biomass particles – an experimental study
9:00	9:20		2550 Improvements in thermal efficiency for modified geometry in commercial cook-top burners (LGP fuel)
9:20	9:40		1149 Numerical investigation of flow regimes in biomass pyrolysis
10:00	10:20	44	2390 Numerical study of laminar premixed methane/air flames with carbon dioxide dilution
10:20	10:40		2396 Analysis of multi-objective optimization algorithms applied to internal combustion engines
10:40	11:00		2491 Study of experimental techniques for visible flame length measurement of turbulent diffusion flames
11:00	11:20		2254 Kinetic study on combustion of coal blended with agro-industrial biomass using tga
11:20	11:40		2365 Comparison of energetic efficiency of motorcycles with electric and internal combustion engines
11:40	12:00		94 Experimental analysis of smoke dispersion and flame tilt in a lab-scale diesel pool fire under cross-flow condition
13:40	14:00	45	2338 On the organized rough elements distributions and the drag reduction effects of turbulent flows in pipes
14:00	14:20		2415 Exergetic analysis of the biodiesel production process in a biofuel plant
14:20	14:40		2276 Comparative study of different models for calculation of dni on natal city
14:40	15:00		2240 Proposal of a waste-to-energy facility for rio de janeiro: a sensitivity analysis
15:00	15:20		2368 Experimental evaluation of an enhanced transparent insulation system on a glass-plate cavity
15:20	15:40		6014 Technical-economic analysis of csp technology with parabolic trough solar collector using different fluids work and thermal storage system for the brazilian conditions
16:00	16:20	46	1555 Geometry and radiative heat loss of natural gas non-premixed jet flames diluted with CO2 in cross-flow
16:20	16:40		1576 A study on combustion and oxy-fuel combustion of biomass using thermal analysis
16:40	17:00		2496 Acid dissolution studies using brazilian serpentinite rocks applied mineral carbonation
17:00	17:20		1119 Application of the wsgg model to determine the influence of soot particles on radiation in the combustion process of a 320mw power plant boiler
17:20	17:40		2223 Analysis of diffusion flames of methyl butanoate

# ENCIT 2016: Technical Sessions Schedule

## SALA PRAIA MOLE, WEDNESDAY, NOV 9th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	47	2479 Numerical solution for the droplet combustion in microgravity
8:20	8:40		2432 Comparative study of detailed chemical kinetics models of soot precursors for ethylene/air combustion
8:40	9:00		2305 Analysis of common reactions of a developed diesel-biodiesel combined chemical scheme
9:00	9:20		2332 Numerical simulation of oxy-fuel and co-firing process of coal and biomass in a real scale boiler
9:20	9:40		6010 Effects of pressure Drop on Horizontal Wells of Heavy Oil Reservoirs
10:00	10:20	48	2414 Exergy analysis of a six-stroke internal combustion engine with water injection for exhaust heat recovery
10:20	10:40		2306 Studies about otto-cycle engines: a) efficiency of the variable valve control; b) rates of nitrogen oxide formation related to exhaust temperatures
10:40	11:00		2208 An analysis of the inlet air temperature and humidity influence on the power of an internal combustion engine modeled as an otto cycle
11:00	11:20		1515 Heat release rate of a compression ignition engine fueled with diesel oil and a diesel-straight soybean oil blend
11:20	11:40		2572 Experimental study of atomization parameters from a single-hole port fuel injector with n-heptane
13:40	14:00	49	1107 Numerical simulation of the heat transfer in canine knee joint during the situation of the therapeutic cooling – an analysis considering constant blood perfusion
14:00	14:20		2181 An analysis of the mechanical parameters of an arteriovenous fistula model
14:20	14:40		2189 Human body exergy analysis as a function of body fat and muscle percentage. Applications to thermal comfort conditions
14:40	15:00		2271 Drag reduction in nutrient saline solution: effect of concentration and degradation
15:00	15:20		1293 Analytical and finite element study of maximum allowed working pressure for a digester vessel
15:20	15:40		2339 An analysis on the dynamics of a gas bubble in a centrifugal pump
		50	

## SALA PRAIA MOLE, THURSDAY, NOV 10th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	51	2509 Study of water effect on the performance of a spark ignited engine operating with wet ethanol
8:20	8:40		2324 Numerical simulations of gaseous compound dispersion around a cubic obstacle under different atmospheric stability conditions: use of $\kappa\text{-}\omega$ sst turbulence modelling
8:40	9:00		2323 Euler-lagrange approach of dust emission and dispersion from stockpiles of granular materials
9:00	9:20		2337 Large eddy simulations of reynolds and schmidt numbers effects on mass transfer of gaseous compounds from quiescent liquid surfaces
9:20	9:40		2273 Experimental analysis of geometry and temperature in lab-scale diesel pool fires under crosswind conditions
10:00	10:20	51.1	2436 General model to predict performance degradation in centrifugal pumps
10:20	10:40		1335 Analysis of a fabric filter using CFD simulation
10:40	11:00		6011 Flow quality analysis of the TA-2 wind tunnel test section
11:00	11:20		6012 Study of the behavior of solid particle in a lid-driven cavity flow



# ENCIT 2016: Technical Sessions Schedule

## SALA CAPUABA

Time slots		Monday 7	Tuesday 8	Wednesday 9	Thursday 10
Start	End				
08:00	08:20	<b>Event at Sala Vitória</b>	54. 2440	57. 2420	61. 2291
08:20	08:40		Heat and Mass 2236	Heat and Mass 2455	Heat and Mass 2371
08:40	09:00		Transfer 2296	Transfer 2318	Transfer 2448
09:00	09:20		Fundamentals and 2232	Fundamentals and 2462	Fundamentals and 2235
09:20	09:40		Numerical : 1849	Numerical : 1653	Numerical : 2153
09:40	10:00	<b>Coffe Break 1</b>	<b>Coffe Break 1</b>	<b>Coffe Break 1</b>	
10:00	10:20	<b>Coffe Break 1</b>	1138	1551	1304
10:20	10:40	52. 2265	2168	58. 2172	62. 1127
10:40	11:00	Heat and Mass 1319	55. 2184	Petroleum 2217	Heat and Mass 2234
11:00	11:20	Transfer 2423	Nuclear Eng. : 2299	Engineering and 2248	Transfer 1537
11:20	11:40	Fundamentals and 2497		OffShore : 2288	Fundamentals and 2264
11:40	12:00	Numerical : 2295		2359	Numerical : 1571
12:00	12:20	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	
12:20	12:40				
12:40	13:00				
13:00	13:20				
13:20	13:40				
13:40	14:00	2387	1342	2394	
14:00	14:20	2450	2457	2433	
14:20	14:40	53. 2451	56. 1835	59. 2444	
14:40	15:00	Rheology and non 1544	Rheology and non 2282	Petroleum 2456	
15:00	15:20	newtonian flow : 2490	newtonian flow : 2335	Engineering and 2517	
15:20	15:40		2407	OffShore : 6001	
15:40	16:00	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	
16:00	16:20	2410		60. 1225	
16:20	16:40			Heat and Mass Transfer 2255	
16:40	17:00	53.1.	56.1.	Fund. and Numerical : 2404	
17:00	17:20			<b>Event at Sala Vitória</b>	
17:20	17:40				
17:40	18:00				

# ENCIT 2016: Technical Sessions Schedule

## SALA CAPUABA, MONDAY, NOV 7th: Paper codes key and titles

Time	Session	Paper code	Paper title
10:20	10:40	52	2265 Constructural design of finned assemblies with rectangular shape to improve the heat removal by convection
10:40	11:00		1319 Calculus of optical losses in heliostats for csp with linear fresnel technology
11:00	11:20		2423 Stability analysis of a supercritical fluid in a porous medium heated from below
11:20	11:40		2497 Solution by integral transformation of conjugate heat transfer with orthotropic duct
11:40	12:00		2295 Application of the weighted-sum-of-gray-gases model in media bounded by non-gray walls
13:40	14:00	53	2387 Some numerical simulations of complex fluid flows
14:00	14:20		2450 Numerical simulation of mixed convection from a cylinder immersed in viscoplastic fluids
14:20	14:40		2451 Power-law fluid flow simulations using a virtual ghost-cell immersed boundary method
14:40	15:00		1544 The influence of the supercooling on the mechanical properties and crystal morphology of waxy oils
15:00	15:20		2490 Numerical comparison of one and two-dimensional models for non-newtonian fluid hammer
16:00	16:20	53.1	2410 Analysis of gas hydrates formation in a pressure cell

## SALA CAPUABA, TUESDAY, NOV 8th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	54	2440 A nodal method for solving the two-dimensional particle transport equation
8:20	8:40		2236 Bladeless impeller design to pump abrasive fluids
8:40	9:00		2296 Analysis of the influence of the spectral dependence of radiative properties of a participating medium in the turbulence-radiative interaction in a non-reacting channel flow
9:00	9:20		2232 Application of the boundary element method for orthotropic diffusive problems
9:20	9:40		1849 Experimental analysis on melting heat transfer characteristics of n-icosane pcm in a rectangular system
10:00	10:20	55	1138 Accelerated life testing of components of nuclear research reactors
10:20	10:40		2168 Perturbative analysis of the steady state multi-group multi-layer neutron diffusion equation in cartesian geometry by fictitious borders power method
10:40	11:00		2184 Numerical study of the heating in a pneumatic irradiation system
11:00	11:20		2299 Risk based inspection of piping: approaches and applications
13:40	14:00	56	1342 Numerical analysis of the developing time in turbulent drag reducing plane Couette flows
14:00	14:20		2457 Stabilized finite element approximations for temperature-dependent non-newtonian fluids
14:20	14:40		1835 Yield stress in waxy crude oil emulsions
14:40	15:00		2282 Experimental investigation of the yielding of an elastoviscoplastic material
15:00	15:20		2335 Numerical simulation of the extrudate-swell using the integral kkbz-psm equation
15:20	15:40		2407 Drag reduction in axial flow in a concentric annuli space and a tube
		56.1	

# ENCIT 2016: Technical Sessions Schedule

## SALA CAPUABA, WEDNESDAY, NOV 9th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	57	2420 Surface roughness and nanofluid concentration effects on the surface wettability and nanofluid boiling heat transfer
8:20	8:40		2455 Accuracy of boiling correlations on nucleate boiling with ethanol using a thin platinum wire at different pressures
8:40	9:00		2318 Analysis of the effect of high pressure levels on the radiative heat transfer of participating gases
9:00	9:20		2462 A constructal design of earth-air heat exchangers composed by four ducts
9:20	9:40		1653 Heat transfer study in a volumetric receiver used in concentrating solar power plants
10:00	10:20	58	1551 Exergy analysis of low grade heat recovery on a brazilian fpso using organic rankine cycle
10:20	10:40		2172 Modeling and cfd simulation of a dawnhole turbine motor (turbodrill) in directional drilling
10:40	11:00		2217 Thermo-economic simulation of the thermal insulated equipment used in steam injection wells by finite volumes method
11:00	11:20		2248 Simulation of viscoelastic polymeric solutions injection process at a reservoir scale
11:20	11:40		2288 Influence of geometric and operational parameters on horizontal wells cleaning process
11:40	12:00		2359 Study of two-phase flow in annular spaces through mechanistic approach
13:40	14:00	59	2394 Experimental study of gas-liquid flow separation at a t-junction
14:00	14:20		2433 CFD analysis of eccentricity effects on horizontal wells cleaning process
14:20	14:40		2444 Experimental analysis of the flow start-up of gelled waxy crude oil in a pipeline previously submitted to different pressurizations
14:40	15:00		2456 Numerical simulation of pig motion in gas-flow pipelines using the flux-corrected transport method
15:00	15:20		2517 Determining commingling volume and its uncertainty in batch transfers from noisy data
15:20	15:40		6001 Effects of diameters ratio on the efficiency of cleaning process in horizontal wells
16:00	16:20	60	1225 On the thermal limits for pwr calculation in operational condition using a monochannel, monophasic model for mixed thorium-uranium oxyde fuel
16:20	16:40		2255 A mathematical model development of a flat plate solar collector operating in transient regime
16:40	17:00		2404 Estimation of spatially and time varying heat flux via markov chain monte carlo method and integral transforms

## SALA CAPUABA, THURSDAY, NOV 10th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	61	2291 Particle-particle interactions in parallel computations
8:20	8:40		2371 Numerical investigation of heat transfer by natural convection and radiation in a cavity with participating media
8:40	9:00		2448 A numerical study of convection flow in an open water cavity
9:00	9:20		2235 Bayesian estimation of thermophysical properties in a two-dimension semi-transparent medium
9:20	9:40		2153 Numerical assessment of laminar flow and conjugate heat transfer in parallel-plate channels with inclined fins at low reynolds number
10:00	10:20	62	1304 Computation of the radiative heat flux from a laminar methane/air flame obtained with the gray gas and the weighted-sum-of-gray-gases models
10:20	10:40		1127 Steady 2d conduction in heterogeneous media with simple boundary conditions: combined gitt-fvm solution
10:40	11:00		2234 Behavior of temperature gradients and velocity fields in fuel oil exportation through a 12 inches toroidal stretch represented by two cylindrical surfaces
11:00	11:20		1537 Analysis of the correlated-k assumption for h2o spectra
11:20	11:40		2264 The effect of the thickness of the plates in laminar forced convection in horizontal channel with heat generating boards cooled by nanofluids
11:40	12:00		1571 Monte carlo simulation of surface radiative heat transfer in cavities of domestic gas ovens

# ENCIT 2016: Technical Sessions Schedule

## SALA UBU

Time slots		Monday 7	Tuesday 8	Wednesday 9	Thursday 10
Start	End				
08:00	08:20	<b>Event at Sala Vitória</b>	2274	2474	2270
08:20	08:40		65. 2285	2361	72. 2191
08:40	09:00		Thermo 2303	1126	Thermo 2158
09:00	09:20		Economics. : 2311	2418	Economics. : 2156
09:20	09:40		2437	2429	1627
09:40	10:00		<b>Coffe Break 1</b>	<b>Coffe Break 1</b>	<b>Coffe Break 1</b>
10:00	10:20	<b>Coffe Break 1</b>	2176	2478	73.
10:20	10:40	1115	2278	2486	
10:40	11:00	63. 1280	66. 1646	70. 2487	
11:00	11:20	Nano and Micro 1325	Aerospace Eng. : 2482	Nuclear Eng. : 2488	
11:20	11:40	Fluidic. : 1613	2471	2489	
11:40	12:00		2495	1139	
12:00	12:20	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	<b>Lunch (not included in conference fee)</b>	
12:20	12:40				
12:40	13:00				
13:00	13:20				
13:20	13:40				
13:40	14:00	1539	2247	<b>EMBRAER session</b>	
14:00	14:20	2203	2124		
14:20	14:40	64. 2344	67. 1587		
14:40	15:00	Nano and Micro 2157	Aerospace Eng. : 2308		
15:00	15:20	Fluidic. : 2275	2419		
15:20	15:40		2246		
15:40	16:00	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	<b>Coffe Break 2</b>	
16:00	16:20	64.1.	2481	2283	
16:20	16:40		2422	71. 2205	
16:40	17:00		2443	Aerospace Eng. : 6005	
17:00	17:20		2316	<b>Event at Sala Vitória</b>	
17:20	17:40		2480		
17:40	18:00		2508		

# ENCIT 2016: Technical Sessions Schedule

## SALA UBU, MONDAY, NOV 7th: Paper codes key and titles

Time	Session	Paper code	Paper title
10:20	10:40	63	1115 Study of silver nanofluids application in electrical transformers - measurements of dielectric strength
10:40	11:00		1280 Review of micro-heat pipes: a concept of an efficient cooling method
11:00	11:20		1325 Numerical simulation of the droplet formation in microchannels with t-junction
11:20	11:40		1613 Numerical simulations of viscoelastic fluid flows in a planar cross-slot geometry
13:40	14:00	64	1539 Visualization of immiscible displacement in an oil-wet micromodel
14:00	14:20		2203 Hybrid solution to fluid flow in irregular microchannels generated by fabrication imperfections
14:20	14:40		2344 A detailed thermal analysis for internal flow in microchannels under specific boundary conditions using integral transforms technique for convection diffusion equation
14:40	15:00		2157 Experimental evaluation of the heat transfer coefficient during flow boiling of di-water in a stainless steel tube coated with SIO2 nanoparticles
15:00	15:20		2275 Conjugated heat transfer with slip flow in microchannels: single domain integral transforms with enhanced convergence
		64.1	

## SALA UBU, TUESDAY, NOV 8th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	65	2274 Thermodynamic diagnostic methodology using thermoeconomic and thermodynamic indicators in conjunction with artificial neural networks (ann)
8:20	8:40		2285 Comparative study of kalina cycles for waste heat recovery in the cement industry
8:40	9:00		2303 Cogeneration potential assessment in cement industry
9:00	9:20		2311 Cogeneration in cement industry with simple orc
9:20	9:40		2437 Thermoeconomic analysis of a kalina cycle for waste heat recovery
10:00	10:20	66	2176 Experimental investigation of ionization sensors under shock tube stagnation conditions
10:20	10:40		2278 Stability analysis of incompressible coaxial jets using boundary layer theory
10:40	11:00		1646 A study of atmospheric re-entry flows through the comparison of rans, dsmc and experimental data
11:00	11:20		2482 Analysis of self-sustained instabilities on compressible laminar separation bubbles
11:20	11:40		2471 Prediction of engine installation drag for the dlr-f6 configuration via CFD
11:40	12:00		2495 Propulsive parameters of thermally perfect gases
13:40	14:00	67	2247 Structural analysis of the brazilian 14-x hypersonic aerospace vehicle at mach number 10
14:00	14:20		2124 Thermo-structural analysis of char layer in composite ablation of sara sub-orbital tps
14:20	14:40		1587 The use of an open source finite element code for aeroelastic analyses
14:40	15:00		2308 The effects of a poroelastic plate extension in the sound scattering of a naca0012 airfoil
15:00	15:20		2419 Flight mechanics and monte carlo analysis for a student sounding rocket
15:20	15:40		2246 Aerodynamic heating of the brazilian 14-x hypersonic waverider scramjet vehicle at mach numbers 7 and 10
16:00	16:20	68	2481 Numerical simulation of tangential slot synthetic jets in channel
16:20	16:40		2422 Large eddy simulation of supersonic jet flow using low order spatial discretization schemes
16:40	17:00		2443 Comparison of experimental methods to measure the aeroacoustic noise of automotive roof crossbars
17:00	17:20		2316 The influence of gas-surface interaction on the brazilian reentry satellite at rarefied conditions
17:20	17:40		2480 A proper orthogonal decomposition analysis of a realistic landing gear with applications to noise prediction
17:40	18:00		2508 Characteristic diameters of biodiesel sprays by a blurry injector

# ENCIT 2016: Technical Sessions Schedule

## SALA UBU, WEDNESDAY, NOV 9th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	69	2474 High-order boundary treatment for high-order methods in computational fluid dynamics
8:20	8:40		2361 Evaluation of the dual-time step technique coupled with minimal gain marching scheme
8:40	9:00		1126 Pod analysis of coherent structures and aeroacoustic sources in a turbulent flow over a naca0012 airfoil
9:00	9:20		2418 Evaluation of implicit time marching schemes for high-order spectral difference methods
9:20	9:40		2429 Dynamic mode decomposition applied to the study of a high reynolds number supersonic jet flow
10:00	10:20	70	2478 Thermal-hydraulic analysis code for plate-type fuel nuclear reactors
10:20	10:40		2486 Thermal studies about the high temperature engineering test reactor
10:40	11:00		2487 Thermal investigations about the liquid-salt-cooled high-temperature reactor
11:00	11:20		2488 Thermal and neutronic simulations of the angra 2 nuclear power plant
11:20	11:40		2489 Two-phase flow instabilities analyses in boiling water reactor
11:40	12:00		1139 Influence of liquid viscosity and column diameter on single taylor bubble movement in a stagnant liquid column
16:00	16:20	71	2283 Project of a new experimental installation for the investigation of rocket nozzle flows
16:20	16:40		2205 Design and construction of a low speed wind tunnel
16:40	17:00		6005 Flame speed model for autoignitive mixtures of methane and n-heptane

## SALA UBU, THURSDAY, NOV 10th: Paper codes key and titles

Time	Session	Paper code	Paper title
8:00	8:20	72	2270 Exergy analysis of a gas compression system in offshore oil platforms
8:20	8:40		2191 Organic rankine cycle for waste heat recovery energy from internal combustion engines (technical and economic analyses)
8:40	9:00		2158 Energetic and economic analysis of an internal combustion engine cogeneration system using syngas from a downdraft gasifier - Influence of different biomass materials
9:00	9:20		2156 Technical and economic feasibility of a cogeneration system applied to hotels in brazil
9:20	9:40		1627 Energy integration study of heat exchangers networks in a poultry slaughterhouse
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