

Conference on Advances on Thermal-Fluids Engineering (ATFE 2021)
Parallel Sessions

Track - 1: Experimental and numerical heat transfer				
Sr. No.	Paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-01	A comparative study of effect of heater orientation on flow and heat transfer characteristics in buoyancy driven flow in cryogenic liquid	Date: 25/03/2021 Session -1	1.00 PM to 3.00 PM
2	ATFE-2021-02	Experimental investigations and thermal analysis of a natural draft improved biomass cookstove with different air conditions		
3	ATFE-2021-03	Experimental studies of cylindrical metallic thermal contacts		
4	ATFE-2021-04	Heat transfer and fluid flow characteristics within non-circular duct		
5	ATFE-2021-05	Numerical analysis of heat transfer in a horizontal channel with flush mounted heat sources.		
6	ATFE-2021-06	Recent trends in pool boiling enhancement - A qualitative approach		
7	ATFE-2021-07	Experimental investigation of three bladed inclined savonius hydrokinetic turbine by using deflector plate		
Track - 2: Energy and sustainability				
Sr. No.	Conference paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-08	A critical review on the effect of various parameters on stability of carbon nano-tube (CNT) based nano-fluids in solar applications	Date: 25/03/2021 Session -2	1.00 PM to 3.00 PM
2	ATFE-2021-09	A review: recent development in solar still to enhance the productivity		
3	ATFE-2021-10	Assessment of synergy-complementarity scenario for the solar and wind energy resources		
4	ATFE-2021-11	Basic characterization and carbon capture study of an indigenous activated carbon		
5	ATFE-2021-12	Constant temperature PCM Storage Comparison		
6	ATFE-2021-13	Performance enhancement of modified double slope passive solar still using different water-based nanofluids		

Track - 3: Fluid flow and CFD				
Sr. No.	Conference paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-14	Numerical analysis for the performance enhancement of counter flow vortex tube with varying number of inlet chamber	Date: 25/03/2021 Session -3	4.00 PM to 6.00 PM
2	ATFE-2021-15	Numerical analysis in shell side of shell & tube heat exchanger with non-circular tubes for impact of reynolds number & angle of attack		
3	ATFE-2021-16	Numerical study on turbulent characteristics of wall jet in a quiescent environment over a plate in motion		
4	ATFE-2021-17	On reducing lift and drag forces of a stationary circular cylinder using side-by-side pair of inward rotating cylinders		
5	ATFE-2021-18	A literature review of static instability in supercritical fluid natural circulation loop		
6	ATFE-2021-19	Analysis of interfacial behavior in two-phase flow using image processing		
Track - 4: Thermal system analysis and optimizatin				
Sr. No.	Conference paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-20	Ammonia based working fluids for absorption refrigeration system- A review	Date: 25/03/2021 Session - 4	4.00 PM to 6.00 PM
2	ATFE-2021-21	Comparison of RSM based optimization techniques for biodiesel production using the microwave-assisted method		
3	ATFE-2021-22	Effectiveness of RSM based central composite design for optimization of in-situ biodiesel production process from castor seeds		
4	ATFE-2021-23	Next generation air conditioner for sustainable cooling solutions.		
5	ATFE-2021-24	Theoretical design of solar powered vapor absorption refrigeration system coupled with latent heat energy storage		
6	ATFE-2021-25	Measurement of thermal diffusivity for food products under natural convection cooling		
Track - 5: IOT and Industry 4.0				
Sr. No.	Conference paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-26	Surface texture inspection in industry 4.0	Date: 26/03/2021 Session - 5	10.45 AM to 1.00 PM
2	ATFE-2021-27	Design of novel garbage monitoring system using internet of things		
3	ATFE-2021-28	Improving productivity in a bearing manufacturing company		
4	ATFE-2021-29	Review on 3D printing technology in aircraft industry		
5	ATFE-2021-30	Studies on the feasibility of cryogenic grinding of spices-A review		

Track - 6: Fuels and Combustion				
Sr. No.	Conference paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-31	Biodiesel production from waste cooking oil using sequential process intensification technique (ultrasound and microwave)	Date: 26/03/2021 Session - 6	10.45 AM to 1.00 PM
2	ATFE-2021-32	Design parameters of triple swirler of jet engine - A review		
3	ATFE-2021-33	Ecological footprint of jatropha biodiesel production at low scale		
4	ATFE-2021-34	Fuel property investigation: jatropha biodiesel, used cooking oil biodiesel and fuel-grade ethanol blends		
5	ATFE-2021-35	Influence of simarouba biodiesel on engine performance and exhaust emissions of conventional compression ignition engine		
6	ATFE-2021-36	Study in the changes on the functional groups present in biomass during pyrolysis process		
7	ATFE-2021-37	Investigation of co-pyrolysis characteristics of high-ash Indian coal and rice husk		
Track - 7: Heat and fluid flow				
Sr. No.	Conference paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-38	Exploiting the challenges of copper to austenitic stainless steel bimetallic joining by gas tungsten arc welding: a fluid flow perspective	Date: 26/03/2021 Session - 7	2.45 PM to 4.45 PM
2	ATFE-2021-39	Investigations of heat source models in transient thermal simulation of pulsed mig welding of AA6061-T6 thin sheet		
3	ATFE-2021-40	Study of non-Newtonian flow, heat transfer and entropy generation characteristics in trapezoidal corrugated channel		
4	ATFE-2021-41	Theoretical modelling of heat generation in batteries of electric vehicles for various operating environments		
5	ATFE-2021-42	Tribological analysis of automotive material under wet lubrication condition using diesel, biodiesel and their blend		
6	ATFE-2021-43	Numerical Investigation on Natural Convection of Hybrid Nanofluid Al ₂ O ₃ -MWCNT/ water inside a vertical annulus		

Track - 8: Water Desalination and Waste Water Treatment

Sr. No.	Conference paper ID	Title of paper	Date and Session	Session Duration
1	ATFE-2021-44	Brackish ground water and dairy wastewater treatment using electrodialysis system	Date: 26/03/2021 Session - 8	2.45 PM to 4.45 PM
2	ATFE-2021-45	Challenges and benefits of multi-effect distillation over other techniques for waste water treatment: A review		
3	ATFE-2021-46	Desalination of brackish water using cascade rankine cycle based reverse osmosis		
4	ATFE-2021-47	Recovery of chromium using membrane containing charged material		
5	ATFE-2021-48	Water desalination and wastewater reuse using integrated reverse osmosis and forward osmosis system		
6	ATFE-2021-49	Additive Manufacturing in water-related applications: A Review		