

Notation used :

Plenary Talks :

Technical Session :

P**TS****Timings :**

Plenary session = 45 min (PL)

Invited lecture = 20 min (IL)

Key Note = 30 min (KL)

Contributory = 12 min (CP)

Schedule for International Conference MET+HTS 2024 during 04.09.2024 to 06.09.2024

Materials & Processing	Material Degradation & Failure Analysis	Advances in Heat Treatment
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Time	DAY 1
10.00 - 12.00	Inaugural Program
12.00 - 12.10	BREAK
12.10 - 13.00	PL1 : Dr. Jitendra Sharma Universal Health Coverage through Made in India Medical Technology"
13.00 - 14.00	LUNCH BREAK
14.00 - 15.30	Session on Defence Materials
15.30 - 16.00	TEA BREAK
16.00 - 16.45	PL2 : Dr. S.K. Jha
16.45 - 17.30	PL3 : Dr.Kantesh Balani Bacterial Protein Interaction with Real Life Implant Materials
17.30 - 18.30	Visit to exhibition
19.00 - 20.00	Cultural Program
20.00 - 21.30	Gala Dinner
	DAY 2
9.30 - 10.15	PL 4 : Dr. Sankha Dip Das Advanced Manufacturing for Medical Device Sector
10.15 -11.00	PL 5 : Dr. Vijayamohan Pillai Smart and sustainable Materials for the storage of Renewable Energy
11.00 - 11.20	TEA BREAK

11.20 - 12.05	PL 6 : Mr. Abhijeet Bannerjee (IPSEN technologies):		
	Global Developments in Heat treatment Technology		
12.05 - 13.00	TS 1	TS 1	TS 1
	KL : RN Singh : Hydrogen generation, storage and transportation - A short review	KL : K. Venkatesan : Design Strategies for Mitigating Failures and Material Degradation in Defence Sector	IL : Alphonsa Joseph : Advancements in Heat Treatment with Plasma Technology
	IL : Bikas Maji : Fabrication and Characterization of Corrosion Resistant Clad Steel Plates	IL : Vibhor Chaswal : Opportunities in Sustainable Life Enhancement and Intelligent Degradation Control Leadership in Metallic Alloys	IL : Kamil Siedlecki : Unconventional Applications and Configurations of Vacuum Heat Treatment.
	CP : Mohammad Yunus : Development of 350 grade Cobalt-free maraging steel	CP : Shahnawaz Ahmad : High temperature fatigue crack growth behavior in turbine disc superalloy - Experiment and simulation	CP : Shital Jadhav : Effect of Process Heat Treatment on Compressed Natural Gas Cylinder Brass Valve
13.00 - 14.00	LUNCH BREAK		
14.00 - 15.30	TS 2	TS 2	TS 2
	KL : C. Ramdas : Development of Composite Products for Defence Applications using Out-of-Autoclave Processes	KL : I. Chattoraj : Hydrogen Related Failures	KL : Peter Sherwyn : Energy conservation in Heat Treatment : Leveraging Industry 4.0 Innovations for sustainability
	IL : Susheel Choubal : Ingenious toggle press module - A solution for multifold productivity improvement	IL : S Sujatha : Understanding the environmental assisted failures in aircraft structural components	IL : Kalpesh Desai : The unseen Hero of Heat Treatment: The role of process control in sustainable manufacturing
	IL : Adam Adamek : Exploring Vacuum Brazing technologies in aerospace, automotive, medical, HVAC and other industries	CP : Ananthkrishna : Failure analysis of RTD in Nuclear reactor	IL : S. Venkataraman : Low temperature surface hardening on stainless steel components: A solution to improve wear resistance and fatigue resistance
	CP : Ghanshyamsinh Jhala : Study of the effect of plasma carburizing process on tribological properties of titanium alloys	CP : Priya Ranganathan : Failure analysis of AISI type 304L SS used in nitric acid storage tank for nuclear reprocessing applications	IL : Durga Prasad : Advantages of simulation technologies for optimization of heat treatment process

	CP : Divya Nechiyil : Investigation of High-Performance Free-Standing CNT aerogel-based Supercapacitors	CP : Vivek srivastava : Failure analysis of naval components and prevention by data-driven technologies	
15.30 - 16.00	TEA BREAK		
16.00 - 17.30	TS 3	TS 3	TS 3
	K3 : Raghendra Tewari : Alloy Design and Manufacturing Challenges for Structural Materials for New Applications	KL : Supratik Roychowdhuri : Root cause analysis of failures : Typical case studies	KL : Jyotsna Dutta Majumdar : Laser Surface Treatment of Lightweight Materials
	IL : Gaurav Rao : Investigation on friction stir welding of dual phase complex concentrated alloy	IL : Jaya Rawat : Synergistic Impact of Biochemical Agents on Material Degradation	IL : M. Rajmohan : Replacing traditional brick linings - The rise of pre-cast shapesand castables in heat treatment furnace
	IL : K V Mani Krishna : Modelling Assisted Optimization of Additive Manufacturing of Tungsten and Al-B4C Composites	CP : Srishti Bhatt : Investigation of Flux-Induced Corrosion in Tact Switch of Two-Wheeler Vehicles	IL : Shivanand Borkar : Microwave-Assisted Heat Treatment of Steel: A novel approach
	CP : Ganesan G. : Hybridazion in metal additive manufacturing : Method and Outcomes	CP: J N Mohapatra : Failure Analysis and Non-Destructive Magnetic Hysteresis Loop Evaluation of Heat Treatment and Temper Embrittlement in 410 Martensitic Stainless Steel Shaft	CP : K G V Sivakumar : Advances in Heat Treatment
	CP : Laxya Gupta : Deposition of Ti3AlC2 coating on Zircaloy-4 using cold spray technique for Accident Tolerant Fuel (ATF) Cladding Applications CP : Amol Dange : Technology development of ultrahigh thick pelton runner discused in turbines of hydroelectric power plant	CP : Tapan Kumar Sawarn : Thermal shock failure criterion for India PHWR clad under simulated local condition	CP : Amit Tiwari : Failures Investigation of Wet clutch Input PTO Shaft in Power Shuttle Transmission of a Tractor

DAY 3			
9.30 - 10.15	PL7 : Dr. Mikhail Zheludkevich		
	Application of AI in Corrosion Protection		
10.15 - 11.00	PL8 : Dr. T. Sudarshan (MATMOD Inc.)		
	Innovations in Coatings and Surfaces		
11.00 - 11.20	TEA BREAK		
11.20 - 12.05	PL9 : Dr. Motoyasu Sato (Chubu University)		
	A Safer, Smaller, Cleaner Fusion-Driven Fission Reactor		
12.05 - 13.00	TS 4	TS 4	TS 4
	KL : J.B. Singh : Superalloys - Opportunities and Challenges for Indian Industry	KL : S. Parida : Material degradation and sustainability	KL : Vivek Singal : Developments in heat treatment processes and equipment carried out in the Fluidtherm process prototyping facility & design center
	IL : Niraj Kumar : Rejuvenation of Inconel 625 cracker components of ammonia based HWPs - A boon in disguise	IL: G. Sreedhar : Oxidation studies on plasma sprayed Gd ₂ Ti ₂ O ₇ /DSZ thermal barrier coatings	IL : Kamil Siedleki : How can Low Pressure Carburizing save your money and increase process efficiency.
	CP : Siddhant Gupta : Characterisation of Vacuum Brazed Joints of Aluminium with Stainless Steel	CP : C. Sundaresan : Oxidation behaviour of Alloy 304HCu in Advanced Ultra-Supercritical steam: Exploring the Early Oxidation mechanism and severity of the environment"	IL : Nikhil Datar : Addressing Process issues and advancements in low pressure carburizing process
13.00 - 14.00	LUNCH BREAK		
14.00 - 15.30	TS 5	TS 5	TS 5
	IL : Santosh C. Jagadale : Green materials for sustainable growth of rubber industry	KL: Anish Kumar : Non-destructive evaluation for assessment of materials degradation and failure analysis"	KL : Gerard Hiller : Driving Sustainability and Excellence: The Role of Low-Pressure Carburizing (LPC) in Electric Vehicle Manufacturing

	IL : Amit Varma : Thermomechanical Processing of Ni-base superalloy Alloy 693	IL2 : Nisheeth Prasad : Multi principle Mixed Metal Oxide impressed current anodes for Cathodic protection	IL : Sachin Thorat : Queching Oil - Uses , Maintenance and Care
	IL_Vijay Nimbalkar : Novel steel strip laminate process technology for rocket motor tube cases	CP : Sudha Gautam : Role of surface passive films on hydrogen entry rate to understand its effect on hydrogen embrittlement susceptibility of dual phase steels using electrochemical permeation technique	IL : Manoranjan Patra : Xitij's Innovation on low pressure vacuum carburising with high speed process, distortion control through powerful quenching
	CP : Poulami Chakraborty : Light weight high entropy alloys for nuclear application: microstructure, mechanical properties and hydrogen interaction	CP: Neelima Khare : Exploring the Tribological Performance of Nitronic-60 & Aluminum Bronze	IL : Pratap Parab : Challenges faced by cold forging /forming industry
	CP : Malvika Karri : Creep-Rupture Behaviour of Alloy 690 exposed to Borosilicate Glass Corrosion Environment	CP : Rasmi Ranjan Tripathy : Quantification of Interfacial Oxygen Reduction Reaction Kinetics at Buried Metal/Polymer Interfaces by Combined Hydrogen Potentiometry and Electrochemical Impedance Approach	
	CP : VISHAL SINGH : Microstructural Evolution in E-Beam Welded pure Vanadium and Titanium		
15.30 - 16.00	TEA BREAK		
16.00 - 17.30	VALEDICTORY FUNCTION		
17.30 - 18.15	HIGH TEA		