

Technical Schedule (at glance)

14th March 2026: DAY 1

Time	Event	
9:0-10:00	Registration (Venue: Infront of L18)	
10:00-10:30	Inaugural and Director's Address (Venue: L18)	
10:30-11:15	Plenary Lecture: <i>"Decarbonising the steel industry-once molecule at a time"</i> by Dr. Siddhartha Misra, Tata Steel (Venue: L18)	
11:15-11:50	High Tea (Venue: Infront of L18)	
13:00-14:15	Lunch (Venue: Infront of L18)	
14:30-16:00	Parallel Technical Sessions	
	Oral Session- I A: Physical and Mechanical Behaviour of Materials (Venue: L18)	Oral Session- I B: Extractive Metallurgy and Corrosion of Materials (Venue: L15)
16:00-17:00	3-Minutes Thesis Competition (Venue: L18)	
17:15-19:30	Workshop on <i>"AI/ML in Materials Science"</i> by Prof. Anoop Krishnan, IIT Delhi (Venue: DJ 204H)	
19:45 Onwards	Colloquium Dinner (Gala dinner for all registered participants and guests) (Venue: VH1)	

15th March 2026: DAY 2

Time	Event	
9:30-10:20	Keynote Lecture: “ <i>Sustainable Space Exploration: Air Intakes of Reusable Launch Vehicles</i> ” by Prof. Sanjay Mittal, IIT Kanpur (Venue: L18)	
10:20-10:45	Tea Break (Venue: Infront of L18)	
10:45-12:45	Parallel Technical Sessions	
	Oral Session- II A: Functional and Energy Materials (Venue: L18)	Oral Session- II B: Materials Processing (Venue: L15)
12:45-14:00	Lunch (Venue: Infront of L18)	
14:15-15:00	Keynote Lecture: “ <i>Agar and Cellulose based Dressings for Faster Blood Clotting</i> ” by Prof. Vivek Verma, IIT Kanpur (Venue: L18)	
15:00-16:00	Parallel Technical Sessions	
	Oral Session- III A: Biomaterials and Bioengineering (Venue: L18)	Oral Session- III B: Modelling and Simulation in Materials Science and Engineering (Venue: L15)
Time	Event	
16:15-17:15	Poster Session and Metallography Contest (Venue: L18 Foyer)	
17:40-18:00	Valedictory & Prize Distribution Ceremony (Venue: L18)	
18:00 Onwards	High Tea	

Oral Presentation Schedule

Day:1		Date: 14 th March 2026		Slot: Afternoon (14:30 -15:45)		Venue: L18	
Technical Sessions-I A:		Physical and Mechanical Behavior of Materials		<h2>Title of Presentation</h2>			
Session Chairs: Prof. Niraj Mohan Chawake, Prof. Shashank Shekhar							
S.NO	TIME	SPEAKER					
1	14:30-15:00	Md Irfan Ali		Role of Zn addition on microstructural evolution and mechanical properties of a novel Mg-1.2Al-0.4Ca-0.2Ce alloy processed by rotary swaging			
2	15:00-15:15	Abhishek Kumar		Interface-Controlled Creep in a Non-Equiatomic CoCrNi Alloy with Hierarchical Microstructure.			
3	15:15-15:30	Digbijaya Pradhan		Connectivity-Based Grain Boundary Engineering of FeCoCrNiMn High Entropy Alloy: Effect of Deformation and Annealing on CSL Network Evolution and Corrosion Behavior			
4	15:30-15:45	Sachin Kumar		Investigating Interdiffusion in B2 (Ni, Ru) Al Alloy			
5	15:30-15:45	Kunwar Pratap Singh Yadav		Microstructure and Mechanical Property Correlation in High-Entropy Dual-Phase (Ti,Zr,Ta,Hf) Boride-Carbide-Based Ultra High Temperature Ceramic			
Day:1		Date: 14 th March 2026		Slot: Afternoon (14:30 -15:45)		Venue: L15	
Technical Sessions-I B:		Extractive Metallurgy and Corrosion of Metals		<h2>Title of Presentation</h2>			
Session Chair: Prof. A.K. Singh							
S.NO	TIME	SPEAKER					
1	14:30-15:00	Debanjan Gain		Enrichment of Lean-grade Iron Ores using Reduction Roasting for Sustainable Ironmaking			
2	15:00-15:15	Devendra Nama		Reduction behaviour of hematite concentrates under H ₂ environment in a flash ironmaking reactor			
3	15:15-15:30	Ankur Srivastava		Hydrogen Production through Recycling of Black Aluminium Dross via Alkaline Leaching			
4	15:30-15:45	K Sessa Sai Verma		Effect of pseudomonas aeruginosa on corrosion behavior of mild steel in marine environment			
5	15:45-16:00	Shirish Chandrakar		In-situ investigation on hydrogen-induced deformation micromechanisms in commercially pure titanium			

Day:2		Date: 15 th March 2026		Slot: Forenoon (10:45 -12:30)		Venue: L18	
Technical Sessions-II A: Functional and Energy Materials				<h1>Title of Presentation</h1>			
Session Chair: Prof. Sarang Ingole							
S.NO	TIME	SPEAKER					
1	10:45-11:00	Sandipan Bhattachrya		Cold sintering–assisted microstructural engineering of Na _{3.2+x} Zr _{2-x} Mg _x Si _{2.2} P _{0.8} O ₁₂ solid electrolytes enabling enhanced Na-metal battery performance			
2	11:00-11:15	Tushar B. Deshmukh		Hierarchically Engraved NiFePO ₄ Microrods on MWCNTs for Next-Generation Scalable Supercapacitor Electrodes			
3	11:15-11:30	Darshilkumar Chhatrodiya		Investigating partial oxidation of CH ₄ in CO ₂ -rich environments using Gd _{0.1} Ce _{0.9} O _{2-δ} -SrFe _{0.9} Ti _{0.1} O _{3-δ} composite oxygen transport membranes			
4	11:30-11:45	Aditya Uday Kamat		Tunable insulator–metal transition in epitaxial VO ₂ thin films via strain and defect engineering			
5	11:45-12:00	Thutta Mohan		Synergistic Enhancement of Lithium-Sulfur Battery Performance via a Sugarcane Bagasse Derived Porous Carbon Sulfur Cathode and a Bi ₂ Se ₃ Catalytic Interlayer			
6	12:00-12:15	Shiven Ponnappureddy		Sintering Kinetics of Nano Al ₂ O ₃ - 3 mol% Y ₂ O ₃ -stabilized ZrO ₂ Composites during Intermediate and Final Stages via Spark Plasma Sintering			
Day:2		Date: 15 th March 2026		Slot: Forenoon (10:45 -12:30)		Venue: L15	
Technical Sessions-II B: Materials Processing				<h1>Title of Presentation</h1>			
Session Chair: Prof. Arunabh Meshram							
S.NO	TIME	SPEAKER					
1	10:45-11:00	Shahid Nabi		Liquid Phase Sintering of Niobium Using Ni–Cu Binders			
2	11:00-11:15	Raj Hans Kumar		Machining Behaviour and Mechanical Properties of High Entropy Alloy			
3	11:15-11:30	Zainul Abedin		Influence of Porosity on Melting Dynamics of Low-Melting Alloy			
4	11:30-11:45	Aman Nigam		Overview of the Role of Mold Fluxes in the Development of 3rd Generation AHSS			
5	11:45-12:00	Antrakrate Gupta		Ceramic slurry dispersion stability assessment technique for DLP 3D printing			
6	12:00-12:15	Aditya Dass		Effect of Alumina in flash reduction of Iron ore fines			
7	12:15-12:30	Pranjal Chauhan		Modeling the effect of powder reuse on melt pool dynamics and defect formation in additively manufactured components			

Day:2		Date: 15 th March 2026		Slot: Afternoon (15:00 -16:00)		Venue: L18	
Technical Sessions-III A: Biomaterials and Bioengineering				<h1>Title of Presentation</h1>			
Session Chair: Prof. Kantesh Balani							
S.NO	TIME	SPEAKER					
1	15:00-15:15	Dr. Kalpana Rathore		Agar-based Electrospun Bilayer Dressing for Chronic Wound Management			
2	15:15-15:30	Dr. Uma Devi		Biological Evaluation of Phd2 Inducers as Potential Anticancer Agents			
3	15:30-15:45	Murli Manohar		Effect of Feedstock Characteristics on Cell Adhesion, Mineralization, and Nanomechanical Properties of Suspension Plasma-Sprayed Hydroxyapatite/Bioglass Coatings			
4	15:45-16:00	Anupam Halder		Bi2S3 Electrocatalyst for Non-Enzymatic Electrochemical Glucose Detection: Mechanistic Insights and Sensing in Human Blood and Serum			
Day:2		Date: 15 th March 2026		Slot: Afternoon (15:00 -16:00)		Venue: L15	
Technical Sessions-III B: Modelling and Simulation in Materials Science and Engineering				<h1>Title of Presentation</h1>			
Session Chair: Prof. Somnath Bhowmick							
S.NO	TIME	SPEAKER					
2	15:00-15:15	Aravind K		Phase-Field-Driven Hybrid Framework with Attention-Enhanced Deep Learning for 2D and 3D Microstructure Evolution in Ternary Alloys			
3	15:15-15:30	Juhi Rani Verma		Crystallization and Heat Transfer Behaviour of Mould Fluxes in Continuous Casting of Peritectic Steel			
4	15:30-15:45	Manish Ranjan		Effect of Ti Addition on Screw-Dislocation Mediated Plasticity in W-Containing Refractory High-Entropy Alloys			
5	15:45-16:00	Rakesh Maurya		Effect of Magnetic Field on Grain Growth in Polycrystalline Materials: A Phase Field Study			

Poster Presentation Schedule

S.NO	Abstract ID	Presenter's Name	Title of Presentation
Session Chairs: Prof. Rajdip Mukherjee, Prof. Niraj Mohan Chawake, Prof. Tanmoy Maiti, Prof. Shobit Omar			
1	RSD01	Neha Maurya	Sustainable Recovery of Metals and Polymers from End-of-life Photovoltaic modules & Waste Printed Circuit Boards
2	RSD02	Aditi Singh Chauhan	Mechanistic Insights into Hydrogen-Metal Interactions in Aerospace-Grade Advanced High-Strength Titanium Alloys
3	RSD03	Ayushi Bhatnagar	ZrB ₂ based Functionally Graded Ultra High Temperature Ceramics for Hypersonic Vehicles
4	RSD04	Shivansh	Microstructural and Mechanical characterization of Additively Manufactured Stainless steel - Mild steel functionally graded material for pipeline application
5	RSD05	Shivam Aggarwal	Perovskite TE-Predictor: An Interpretable Machine Learning Framework to Accelerate the Design of Oxide-Perovskite Thermoelectric Materials
6	RSD06	Bhumika Sanjay Patankar	Structural Engineering of Doped P2-Type Layered Oxides for High-Stability Sodium-Ion Cathodes
7	RSD07	Shruti	High-Entropy Design Strategy for Ultralow Thermal Conductivity in p-Type Oxide Thermoelectric
8	RSD08	Kyama Alekhya kumari	Effect of Solutionizing Duration on Microstructure and Fretting Tribocorrosion Behavior of AZ91 Mg alloy
9	RSD09	Mrinmoy Chanda	Automated subgrain boundary detection in experimental and synthetic crystal orientation maps of deformed polycrystals
10	RSD10	Yash Gupta	Creep life prediction of P91 grade steel using Genetic Algorithms and Physics-Informed Neural Network
11	RSD11	Subhra Khan	Physics-Informed Machine Learning Framework for Magnetic High-Entropy Alloys with Experimental Validation
12	RSD12	Pritam Dey	Development of Cost-efficient environmentally friendly thermoelectric materials
13	RSD13	Vivek Kumar	High entropy oxides as the next generation high temperature thermoelectric material
14	RSD14	Sunraj Patel	Physics-Informed Neural Network for Stress Analysis in In-Plane Crack Problems
15	RSD15	Praveen Kumar	PANI-Derived Microporous Activated Carbon with Ultra-High Surface Area for Efficient Removal of Cationic and Anionic Dyes from Wastewater
16	RSD16	Kunal Kishore	Performance Analysis of Thermoelectric Generators for Industrial Applications
17	RSD17	Saurabh Sharma	Design of Composite Polymer Interface for High-Performance Na-ion Solid-State Batteries
18	RSD18	Jeetendra Kumar	Evolution of Quasi-Vertically Oriented Sb ₂ S ₃ Micropillar Arrays via Sulfurization of Sputtered Antimony Thin Films
19	RSD19	Baby Shruit Shukla	Innovative Approaches in Burn Wound Healing: Overcoming Challenges and Advancing Care