

List of Oral Presentations

Day 1: 20/01/24 Session 1				SYNTHESIS & CHARACTERIZATION Venue : Fr. Proost Hall	
Meeting link: https://meet.google.com/erz-kznr-anp?hs=224					
	Time	Paper-ID	Presenters name	Title of presentation	
1	3:30 PM	I1-0001	Mr. Alok Kumar	Identification of H-type (AA') and R-type (AB) WS2 Bilayers and Twin Boundaries Using Low and High-frequency Raman Analysis	
2	3:40 PM	B1-0006	Prof. Himanshu Narayan	Photocatalytic degradation of Methylene Blue dye with Copper Oxide nanoparticles synthesized from Moringa gum	
3	3:50 PM	A1-0016	Mrityunjay Kumar	Impedance Spectroscopy of newly synthesized double perovskite ceramic: Nd ₂ FeTiO ₆	
4	4:00 PM	A1-0005	Triloki Rana	Influence of Dysprosium Doping on The Dielectric and Ferroelectric Properties of Barium Bismuth Titanate Ceramics	
5	4:10 PM	B1-0007	Santosh Rajwar	Beta Phase enhancement in BNBT incorporated PVDF films synthesized by solution casting technique	
6	4:20 PM	D1-0001	A. Younes	Enhancing wear resistance of sustainable CuZr SMA by promoting stress-induced martensitic transformation	
	4:30 PM		TEA BREAK (20min)	TEA BREAK (20min)	
7	4:50 PM	A1-0017	Rahul Kumar Singh	Electrical analysis of lead free Bi _{0.5} (Na _{0.78} K _{0.22}) _{0.5} TiO ₃ Ceramic	
8	5:00 PM	D1-0002	Mr. UMMER BASHIR KHOJA	Raman signature of the interaction between functionalized MWCNT and the liquid crystalline system (4DBA)	
9	5:10 PM	D3-0004	Priyanka Kumari	Evaluation in Structural and Electromechanical Properties of [(1-x)Bi _{0.5} (Na _{0.7} K _{0.3}) _{0.5} TiO ₃ -xBaTiO ₃] Lead-free Ceramics	
10	5:20 PM	D1-0004	Rupesh Kumar	A New High Entropy Stabilized Pyrochlore With Ultra-Low Thermal Conductivity final abstract.pdf	
11	5:30 PM	D2-0001	Mr. JANMEJAY MAHTO	Simulation Studies of Impact of 145-165 MeV ⁵⁶ Fe with Thin Carbon Film	
12	5:40 PM	A1-0007	Dewashish Kumar	Materials Based on Lead-Free (K, Na) NbO ₃ : Methods for Preparation and Piezoelectricity	
13	5:50 PM	A1-0019	Shyamanand Pandey	Analysis of Pb[Zr _{0.52} Ti _{0.48}]O ₃ Ceramics through Impedance Spectroscopy	

*Online participants are shaded

Day 1: 20/01/24 Session 2 (Parallel)			THEORETICAL & MODELLING Venue : Room No. 67	
Meeting link: https://meet.google.com/zqz-eino-ymj?hs=224				
	Time	Paper-ID	Presenters name	Title of presentation
1	3:30 PM	F2-0001	Sushanta Kumar Ghosh	Quantum Field Theoretic and Feynman Diagram Based Theoretical Modeling of Nanostructured Materials for Electronic Devices
2	3:40 PM	A4-0001	Dr. SAYANTAN SIL	MAGNETOGRAPHIC ANALYSIS FOR EXACT SOLUTION OF VARIABLY INCLINED ROTATING MHD FLOWS THROUGH POROUS MEDIUM
3	3:50 PM	C2-0001	Mrs. NEHA ANCHAL	Thermoelectric properties of layered compound GaGe ₂ Te: A first principles study
4	4:00 PM	D4-0005	Santosh Kumar Singh	Travelling Wave-Based Analysis of Electrically Conducting Fluids in Porous Media: A Exact Solution
5	4:10 PM	G2-0002	Denet Davis	Numerical investigation on efficiency enhancement and influence of varying bandgap, thickness and electron affinity of PBDBT-INTIC NFA based bulk heterojunction organic solar cells
6	4:20 PM	A3-0007	Mr. H Manjunatha	Effect of TiO ₂ nanofillers on the transport properties of Solid Polymer Electrolyte blends
	4:30 PM		TEA BREAK (20min)	TEA BREAK (20min)
7	4:50 PM	A2-0001	Roquia Perween	An Improved SAFT-type equation of state for square-well chain fluids of variable range
8	5:00 PM	C2-0003	Dr. Amrita Thakur	Computational Studies on Chloroquine derivatives as Anti-Malarial Drugs
9	5:10 PM	B1-0003	Pravin Chhetri	Synthesis and Characterization of CoTiO ₃ nanoparticles for photocatalysis applications
10	5:20 PM	H1-0004	Bijay Kumar	Concentration Dependent Study of SC State Parameters of AHEA Alloy
11	5:30 PM	C2-0002	GAUTAM ROY	Numerical modeling to access the effect of residual groundwater ferrous concentration on pyrite oxidation.
12	5:40 PM	C1-0007	Mr. Rupesh Singh	Photon antibunching in seventh harmonic generation
13	5:50 PM	A1-0002	Mrs. Rosy Sharma	Simulation-based analysis of lead-free Perovskite solar cell by optimizing electron hole transport layer using SCAPS software.

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Day 2 : 21/01/24 Session 1			ENERGY & OPTICAL MATERIALS Venue : Fr. Proost Hall	
Meeting link: https://meet.google.com/erz-kznr-anp?hs=224				
	Time	Paper-ID	Presenters name	Title of presentation
1	4:00 PM	C1-0008	Swagata Chakraborty	Photoluminescence study of Gd ³⁺ doped ZnWO ₄ phosphor for cyan emitting display devices
2	4:10 PM	I1-0002	Mr. Reetik Singh	Cost-effective synthesis of high-quality graphene oxide nanoflakes
3	4:20 PM	C1-0006	Dr. Lakshmi Mukhopadhyay	Enhanced Upconversion Emission in Vanadate Phosphors for Photonic Applications
	4:30 PM		TEA BREAK (20min)	TEA BREAK (20min)
4	4:50 PM	E3-0001	Yathavan Subramanian	Efficient Hydrogen Peroxide Generation and Congo Red Dye Degradation via Lanthanum Oxycarbide Photocatalyst in Diverse Water Compositions
5	5:00 PM	A2-0002	Dr. Dharani M	Predicting Shear Modulus Property Using Materials Informatics
6	5:10 PM	C1-0001	Dr. Laxmi Shiveshwari	Omni directional gaps in one dimensional photonic crystal
7	5:20 PM	E3-0003	Dr. Ravindra Kumar Gupta	Electrical Transport Properties of Cu ⁺ /Cu ²⁺ Solid Redox Mediators for Dye-Sensitized Solar Cell Application
8	5:30 PM	E3-0002	Dr. Niti Agrawal	Effect of Non-Uniform Irradiance on the Energy Yield of Solar Photovoltaics in Urban Environment
9	5:40 PM	D3-0008	Dr. Sruthi T	Revealing Advanced Capacitance: Enhancing Supercapacitor Performance with Functionalized 2D WSe ₂ Materials
10	5:50 PM	G1-0001	Ankit Kumar	Fabrication of rubber/Pb(Zr,Ti)O ₃ composites for energy harvesting applications

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Day 2 : 21/01/24 Session 2 (Parallel)				INTERDISCIPLINARY Venue : Room No. 67
Meeting link: https://meet.google.com/zqz-eino-ymj?hs=224				
	Time	Paper-ID	Presenters name	Title of presentation
1	4:00 PM	C4-0001	Dr. Shiv Shankar Prasad	Enhance Production of Exopolysaccharide by Newly Isolated Microbes
2	4:10 PM	A1-0010	Dr. Amitabha Bhattacharyya	Natural Surfactants: Clean in a clean way
3	4:20 PM	A1-0012	Mr. Ajay Vishwakarma	Study of Sodium and Chromophoric Dissolved Organic Matter due to Seawater Intrusion in Agricultural Soil
	4:30 PM		TEA BREAK (20min)	TEA BREAK (20min)
4	4:50 PM	C4-0002	Dr. Venkat Appa Rao Namballa	Microplastics Menace in Kanke Dam, Ranchi: A Rising Concern
5	5:00 PM	F1-0002	Dr. Kamalkishore Maniyar	The Comprehensive Study for Machining of Metal Matrix Composites
6	5:10 PM	A1-0011	Miss. Shruti Varma	Study of Dielectric, Chemical and Fatty Acid Properties of Pure and Binary Edible Oil Using the Microwave X-Band Bench Method and Gas Chromatography
7	5:20 PM	B1-0002	Dr. Shiny E.C. Kachhap	Studies on Extraction and Characterization of Crude Chitosan and Chitosan Nanoparticle from Carapace of Freshwater Crab Sartoriana Spinigera
8	5:30 PM	D1-0005	Abdou Raimi ALAKOUKO	Physical and Mechanical Characterization of a Lightweight Concrete Based on Cotton Ginning Clods
9	5:40 PM	A4-0002	Mr. Prashnatita Pal	An enhancement to the electronic message security algorithm ensuring data Security
10	5:50 PM	A1-0004	Dr. Gourishankar Sahoo	Thermo-Acoustic Study of Niacin in an Alcohol-Water Medium and Comparision of the results with that in Ethylene Glycol- Water Medium

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Day 2: 21/01/24 Session 3 (Parallel)				INTERDISCIPLINARY Venue: Room No. 23
Meeting link: https://meet.google.com/myt-yvdg-use				
	Time	Paper-ID	Presenters name	Title of presentation
1	4:00 PM	A1-0021	Beauty Kumari	Energy Harvesting from piezo electric materials
2	4:10 PM	D4-0008	Vijay Mehta	An elementary treatise on convex optimization
3	4:20 PM	D4-0009	Pappu Mahto	Analysis of the SIR type epidemic model
	4:30 PM		TEA BREAK (20min)	TEA BREAK (20min)
4	4:50 PM	A1-0022	Sachin Kumar	Socio-Economic survey of university students
5	5:00 PM	C4-0003	Namrata Sarvade	An Extensive study of damp proofing in structures
6	5:10 PM	E1-0007	Murodil Tshaev	Effect of Composite absorbent on corrosion of carbon steel
7	5:20 PM	A1-0015	Dr. Kamalkishor Maniyar	Hyperloop Transportation System
8	5:30 PM	A1-0023	Dr. Dinesh Prasad	EXPLORING STRENGTH AND WEAKNESS IN HADAMARD BASED ENCRYPTION SCHEMES.
9	5:40 PM	C4-0004	Mrs. Snehal Banarase	Strengthening Assessment of Concrete Building Using Non- Destructive Testing Methods -A Case Study
10				

*Online participants are shaded

Day 3 : 22/01/24 Session 1			NOVEL MATERIALS Venue : Fr. Proost Hall	
Meeting link: https://meet.google.com/erz-kznr-anp?hs=224				
	Time	Paper-ID	Presenters name	Title of presentation
1	11:30 AM	A3-0001	Dr. Ravi Kumar B	Sub-surface incorporation of Ag ions in a-SiNx :H for tunable plasmonic response
2	11:40 AM	B1-0008	Manish Kumar Mishra	Surface Plasmonic Studies of Functionalized Silver NPs in presence of LC Media
3	11:50 AM	G2-0003	Mr. Aditya Jaiswal	Measurement of Surface Profile of Discontinuous Material Surfaces Using a Spectrally Resolved White Light Interferometer
4	12:00 PM	B1-0001	Mr. AFTAB ALAM	Studies On Pinhole Free CBD-CdS Thin Films on ITO Glass Substrate
5	12:10 PM	A1-0020	Rakesh Prasad	Upconversion emission studies in Er ³⁺ -Tm ³⁺ -Yb ³⁺ -Gd ³⁺ : ZnTiO ₃ phosphor for light emitting display devices
6	12:20 PM	H1-0003	Tinku Kumar	Magnetoresistance (MR), Colossal Magnetoresistance (CMR) Maganites and Relevant sample Equipments
7	12:30 PM	F1-0003	Pallavi Abhinandan Jadhav	EVALUATION AND CHARACTERIZATION OF ALUMINUM SILICON CARBIDE METAL MATRIX COMPOSITES
8	12:40 PM	A1-0018	Vishal Kumar	Electromagnetic radiation energy harvesting characteristics of cement/PZT under drop weight impact load
9	12:50 PM	A3-0008	Manisha Kumari	Flexible Pressure Sensor based on CVD Grown Nanowires

*Online participants are shaded

Day 3 : 22/01/24 Session 2 (Parallel)			INTERDISCIPLINARY Venue : Room No. 67	
Meeting link: https://meet.google.com/zqz-eino-ymj?hs=224				
	Time	Paper-ID	Presenters name	Title of presentation
1	11:30 AM	A1-0006	Dr. Marcus Barla	The Tribal Philosophy of Sustainable Development: (A Case Study with Reference to the Tribals of Chotanagpur)
2	11:40 AM	D4-0001	Prof. Ambika Priya Tirkey	Sustainability Through Quality Education: With Special Reference to India
3	11:50 AM	D4-0003	Ashish Ranjan	Nanotechnology Application in Indian Agriculture: A Paradigm Shift for Sustainable Agriculture
4	12:00 PM	D4-0004	Popelka Mitra	International Trade Agreements of India: Advancing Novel Materials in Global Marketplaces
5	12:10 PM	J1-0001	Himadri Borah	Recent Developments in Electrochemical Sensors for Pesticides Detection
6	12:20 PM	B1-0004	Mrs. Upasana Mishra	Properties of Dialdehyde cellulose for Sustainable Release in drug delivery system
7	12:30 PM	B1-0005	Latika Mishra	Green Synthesis of Titanium Dioxide Nanoparticles and Its Optical, Magnetic and Antibacterial Studies
8	12:40 PM	D1-0003	Dr. Ramesh Babu Palanisamy	Green Synthesis of Antibacterial Nanocomposite Using Natural Hydroxyapatite Extracted from Waste Chicken Bones
9	12:50 PM	E1-0006	Dr. Harendra Nath Kumar	Synthesis and Characterization of Sodium and Potassium salt of 10-molybdo 2-vanadotantalate
10	01:00 PM	E4-0002	Ritesh Kumar	Revolutionizing Material Discovery: a journey with artificial Intelligence

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