

2nd International Conference on Sustainable Materials and Practices for Built Environment (SMPBE - 2023)

SESSION 1 ([Click here to join the meeting](#))

19.01.2023 (12:00 PM - 01:15 PM)

Session Chair: Prof. Nayan Sharma

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Sustainable water resources management & practices	<i>Keynote speaker: Prof. Nayan Sharma</i> <i>Title: Retrofitting dams with Piano Key Weir for flood storage and spillway to take on climate challenges-A sustainable approach</i>		12:00-12:30	<p align="center"> Dr. Md Parwez Akhtar parwez.akhtar@jaipur.manipal.edu <u>U</u> +91-8235630860 </p>
	8453	Numerical Analysis on The Scouring Effects of Tsunami Waves on Coastal Structures	12:30-12:40	
	1117	Solid Waste Management: The Necessity of An Epoch for The Protection of Community, Public Safety, Health And Environmental Quality	12:40-12:50	
	7320	Effect Of Urbanization on The Urban Lake Water Quality by Using Water Quality Index (WQI)	12:50-13:00	
	6795	Application Of Papaya Seeds Powder and Neem Leaves Powder for Sewage Water Treatment	13.00-13.10	
	Session Summary/Vote of thanks/online photo-session		13.10-13.15	

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SESSION 2 (Click here to join the meeting)

19.01.2023 (13:00 PM - 15:00 PM)

Session Chair: Dr. R.N. Sankhua

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
IOT application in Civil Engineering	<i>Keynote Speaker: Dr. R.N. Sankhua</i> <i>Title: IOT application in water and agricultural management</i>		13.00-13.30	Dr. Sanchit Anand sanchit.anand@jaipur.manipal.edu +91-9928528858 & Dr. Lalima Banerjee MIT, Bengaluru
	5227	Analyzing the relationship between the enablers of the post-disaster recovery of road infrastructure: An application of interpretive structural modeling and Fuzzy MICMAC analysis	13:30-13:40	
	8012	Planning Of Rural Road Network Using Ant Colony Optimization	13:40-13:50	
	2964	New Sustainable Ideas for Solution of Smart City in India	13:50-14:00	
	6641	Strength Analysis of Hybrid Date-Wood-Al ₂ O ₃ Polymer Composite Using Taguchi Method	14:00-14:10	
	8318	Light Weight Concrete Mix Design Through Fuzzy Logic with Cosine Similarity Aided Optimized Rules	14:10-14:20	
	5601	Performance Of Resource Saving Agro-Industrial Wastes and Their Utilization in Lightweight Concrete -A Review	14:20-14:30	
	2188	Investigating The Modification in Structural Properties Of Cobalt Ferrite Nanoparticles With Increasing Annealing Temperature	14:30-14:40	
			14:40-14:50	
		Session summary/vote of thanks and online photo session		

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SESSION 3 ([Click here to join the meeting](#))

19.01.2023 (13:00 PM - 15:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Sustainable Building and Repair Materials	743	Three-Dimensional Lattice Boltzmann and Finite Difference Methods for The Simulation of Ultrasound and Thermal Convection In A Microcavity	13:00-13.10	Dr. Harshavardhana BG harshavardhana.ganesh@jaipur.manipal.edu +91-9079301214 & Dr. Blessen Skariah Thomas NIT, Calicut
	7829	The Comparison of The Experimental Investigations of Strength Characteristics of Conventional and Bacterial Concrete	13:10-13:20	
	8056	Flexural-Torsional Analysis of Steel Beam Structures Using Ansys	13:20-13:30	
	9278	Geometrical Nonlinearity Response of Open Web Steel Joist	13:30-13:40	
	9509	An Evaluation of Remote Sensing Products and Software for Assessing Surface Temperature in Ajmer City	13:40-13:50	
	7491	The Collapse Mechanism of Composite Steel Framed Structure Exposed to Parametric Design Fire and Travelling Fire Scenarios	13:50-14:00	
	3132	Utilization Of Textile Effluent Sludge to Create Concrete	14:00-14:10	
	789	Evaluating The Impact of Wind Effects on Tall Buildings with Various Plan Shapes	14.10-14.20	
	6720	Determination Of Deflection Characteristics of Fortified Glass Fiber Reinforced Polymer Beam Structures Under the Influence of Static Load Variation	14.20-14.30	
	8101	Phase Change Material: A Review	14.30-14.40	
			14.40-14.50	
	Session summary/vote of thanks and online photo session		14.50-15.00	

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SESSION 4 ([Click here to join the meeting](#))

19.01.2023 (15:00 PM - 17:00 PM)

Session Chair: Dr Sanket Nayak

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Sustainable Building and Repair Materials	<i>Keynote speaker: Dr. Sanket Nayak</i> <i>Title: Transformation of waste into wealth: Lab to land approach; Challenges and a way forward towards sustainable infrastructure</i>		15:00-15:30	Mr. Sourav Kumar Das souravkumar.das@jaipur.nipal.edu +91-8890951739 & Dr. Susanta Banerjee NIT, Calicut
	2834	Solid Industrial Waste Generation and Its Valorization in Developing Sustainable Building Materials- A State of The Art Review	15:30-15:40	
	8980	Feasibility Study on Utilization of Discarded Waste Material as A Partial Replacement for Coarse Aggregate in Concrete	15:40-15:50	
	1942	Sugarcane Bagasse Ash—The Future Composite Material: A Literature Review	15:50-16:00	
	3588	Utilization Of Waste Plastic Sheets as Soil Stabilization Materials	16:00-16:10	
	9588	Natural and Manmade Fibers as Sustainable Building Materials	16:10-16:20	
	5698	Design of an environmentally friendly concrete mix by partial replacement of fine aggregate with industrial waste glass in powdered form and cement with fly-ash	16:20-16:30	
			16:30-16:40	
			16:40-16:50	
		Session summary/vote of thanks and online photo session		

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SESSION 5 ([Click here to join the meeting](#))

19.01.2023 (15:00 PM - 17:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Sustainable Building and Repair Materials	8423	Sustainable Open-Graded Friction Course Asphalt Mixes with Steel Slag Aggregates	15:00-15:10	Dr. Priyansha Mehra priyansha.mehra@jaipur.manipal.edu +91-9828492752 & Dr. Sanjeev Kumar GEU, Dehradun
	5733	Settlement Analysis of Ground Treated with Granular Piles Using Natural and Recycled Aggregates	15:10-15:20	
	8783	Laboratory And Modelling Investigation on Chemically Stabilized Native Expansive Soil as a CNS Material	15:20-15:30	
	4236	Indigenous House Construction of The Mao-Nagas: A Sustainable Perspective	15:30-15:40	
	8630	Fresh Characteristics and Compressive Strength Evaluation of Self-Compacting Concrete Prepared with Ceramic Waste Tile and Fly Ash	15:40-15:50	
	9536	Effects Of Soil Structure Interaction on Three Adjacent MDOF Buildings Subjected to Blast and Seismic Loadings.	15:50-16:00	
	634	Effectiveness Of Nano Silica on Properties of Self Compacting Concrete	16:00-16:10	
	4509	Decision Making and Economical Optimization of a City Scale Solid Waste Management System: An Integrated Model Simulation on Kolkata, India	16:10-16:20	
	7009	A Progressive Review of Hybrid Nanofluid Utilization in Solar Parabolic Trough Collector	16:20-16:30	
	3715	Performance And Suitability of An Economically Efficient Rapid Sand Filter for Filtration of Roof-Top Harvested Rainwater	16:30-16:40	
	Session summary/vote of thanks and online photo session		16:50-17:00	

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SESSION 6 ([Click here to join the meeting](#))

20.01.2023 (09:30 AM - 11:30 AM)

Session Chair: Dr. Devesh Tiwari

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Sustainable pavement materials and their maintenance	<i>Keynote speaker: Dr. Devesh Tiwari</i> <i>Title: Road Asset management - A case study</i>		09:30- 10:00	Dr. Rudhra Haldar rudhrahalder@gmail.com +91-9001201838 & Dr. Sonal Saluja Manav Rachna International University, Faridabad
	1652	Feasibility Study on Impact of Replacement of Natural Sand with Crushed Aggregate in Concrete Mix	10:00- 10:10	
	7967	Ecological Impact Assessment of Sustainable Concrete Paver Blocks Based on Endpoint Damage Categories	10:10- 10:20	
	4537	Experimental Analysis of California Bearing Ratio of Soil with Addition of Processed E-Waste	10:20- 10:30	
	560	Application Of Fly Ash – Quarry Dust Mix in Subbase Layer of Flexible Pavement	10:30- 10:40	
	9236	Impact of Nano Materials on Engine Performance Run on Biofuels	10:40- 10:50	
	7641	A Multi-Criteria Decision Analysis (MCDA) Approach for Assessing Performance of Bus Rapid Transit Systems of Indian Cities	10:50-11:00	
	3236	Crucial Safety Performance Indicators in High Rise Buildings- Case Study of Bengaluru	11:00-11:10	
	7516	Computer Vision Aided Sustainability in Civil Engineering Realm: A Scoping Review	11:11-11:20	
	Session summary/vote of thanks and online photo session			

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SESSION 7 ([Click here to join the meeting](#))

20.01.2023 (09:30 AM - 11:30 AM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Waste Materials Utilization and Computational Techniques	3734	Production Of New Generation and Sustainable Concrete Using Rice Husk Ash (RHA): A Review	9:30-9:40	Dr Tej Bahadur, tej.bahadur@jaipur.manipal.edu +91-8696034565 & Dr. Pramod Soni NIT, Jamshedpur
	2574	Influence Of Water Glass (Na ₂ SiO ₃) And Sodium Hypochlorite (NaOCl) Activation in Geopolymer Mortar	9:40-9:50	
	8309	Development of a New Mix Proportioning Method for High Volume Fly Ash Concrete	9:50-10:00	
	272	An analytical study of solute transport behaviour based on some geological parameters in a finite aquifer	10:00-10:10	
	6065	Study On Seismic Response of Unconnected Piled Raft with Rubber Mixed Soil	10.10-10:20	
	3880	Vulnerability Assessment of An Existing Hospital Structure Towards Earthquake in New Delhi, India: A Case Study	10:20-10:30	
	8072	Evaluation Of the Readiness of Clay Bricks with Partially Replaced Rice Husk Ash	10:30-10:40	
	5078	Development Of Modified Compost Unit for Domestic Biodegradable Waste	10.40-10.50	
	8799	Utilization Of Kota Stone Slurry Along with Demolition and Construction Waste In Concrete	10.50-11.00	
	4708	Remediation Of Fluoride Contaminated Water Using Brick Powder as An Adsorbent: Batch Study	11.00-11.10	
	7503	The Salinity Management of Saline Soil by Ultrasonic Characterization of Arginine with Saline Salt	11:10-11:20	
	Session summary/vote of thanks and online photo session		11:00-11:30	

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SESSION 8 ([Click here to join the meeting](#))

20.01.2023 (11:30 AM - 13:30 PM)

Session Chair: Dr. Arun Gaur

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Sustainable pavement materials and their maintenance	<i>Keynote speaker: Dr. Arun Gaur</i> <i>Title: Utilization of waste materials for pavement construction</i>		11:30-12:00	Mr Sanchit Anand, sanchit.anand@jaipur.manipal.edu +91-9928528858 & Dr. Ajay Mandrawalia NIT, Jamshedpur
	5189	Utilization Of Reclaimed Asphalt Pavement (Rap) Materials in HMA Mixtures for Flexible Pavement Construction	12:00-12:10	
	3798	Experimental Investigation of Superpave Mixtures for Optimum and Rich Mixes	12:10-12:20	
	8015	Numerical Investigation on Performance of Nail Stabilized Vertical Cuts	12:20-12:30	
	8413	Use Of Recycled Aggregates in Bituminous Mixes	12:30-12:40	
	9297	Performance Evaluation of WMA Mixtures with RAP	12:40-12:50	
	4372	Utilizations Of Incineration Ash as a Construction Material: A Review	12:50-13:00	
	5564	Performance Of Some Unconventional Agro-Wastes and Admixtures Used in Sustainable Concrete	13:00-13:10	
			13:10-13:20	
		Session summary/vote of thanks and online photo session		

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SESSION 9 ([Click here to join the meeting](#))

20.01.2023 (11:30 AM - 13:30 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator	
Environmental assessment of Materials	7066	Influence Of Engineering Fibers on Fresh and Mechanical Properties of Geopolymer Concrete	11.30-11.40	Mr Raghuvesh Tiwari, raghuvesh.tiwary@jaipur.manipal.edu , anipal.edu , +91-7976145286 & Dr. Bhupali Datta NIT, Jamshedpur	
	3178	Surfactants In Wastewater: Development, Current Status and Associated Challenges	11:40-11:50		
	277	Personal Exposure Assessment to Deep-Frying Cooking-Generated Particulate Matter Using Various Cooking Oils	11:50-12:00		
	2666	A Systematic Review of The Mechanical and Durability Properties of Sustainable Bacterial Concrete	12:00-12:10		
	8636	A Comprehensive Review of Soil Strength Improvement Using Geosynthetics	12:10-12:20		
	530	A Socio-Environmental Intervention in Rural India Through an Alternative Renewable Energy Source for Sustainable Future: A Case Study at Indian Sundarbans	12:20-12:30		
	507	Effect Of P-Delta on RC Framed Buildings with Plan Irregularities for Wind	12:30-12:40		
	5203	Assessment/Monitoring of Air Pollution and Effect on Human Health in Kota City During Spring Season -2020	12:40-12:50		
	7066	Influence of Engineering Fibers on Fresh and Mechanical Properties of Geopolymer Concrete	12:50-13:00		
	6676	Technological Interventions and Policy Checks for Dwelling Spaces Amid Covid-19 Pandemic	13:00-13:10		
					13:10-13:20
		Session summary/vote of thanks and online photo session			13:10-13:30

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SESSION 10 ([Click here to join the meeting](#))

20.01.2023 (14:00 PM - 16:00 PM)

Session Chair: Dr. Ajanta Goswami

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
GIS application in engineering	<i>Keynote speaker: Dr. Ajanta Goswami</i> <i>Title: Glacier and Glacial Lake Dynamics in Indian Himalaya under Changing Climatic Scenarios</i>		14:00-14:30	Dr. Md Parwez Akhtar parwez.akhtar@jaipur.manipal.edu +91-8235630860 & Dr. Pankaj Sharma Amity University, Jaipur
	2277	Experimental Study on The Thermal Properties of Fiber Reinforced Concrete (TPFRC)	14:30-14:40	
	905	Prediction And Parametric Evaluation of Water Quality on Basin of River Brahmani by ANN and GIS	14:40-14:50	
	1588	Effects On Jute Fiber and Ferrochrome Slag as Coarse Aggregate on Mechanical Properties of Reinforced Concrete	14:50-15:00	
	9760	Mineralogical, Pozzolanic and Microscopic Characterization of Dolomite Mine Overburden	15:00-15:10	
	3345	Web GIS Based Accident Information System	15:10-15:20	
	1069	Mapping Of Water Body of Bangalore Area Using GIS & Remote Sensing	15:20-15:30	
	8739	Study on Innovative Residential Buildings Concept for Economically Weaker Sections	15:30-15:40	
			15:40-15:50	
		Session summary/vote of thanks and online photo session		

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SESSION 11 ([Click here to join the meeting](#))

20.01.2023 (14:00 PM - 16:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Material processing and characterization	8869	Characterization Of Bio Concrete	14:00-14:15	Mr Vikram Singh Kashyap, vikramsingh.kashyap@jaipur.manipal.edu +91-9829221130 & Dr. K. I. Syed Ahmed Kabeer SRM, Chennai
	2838	Experimental Investigation of Expansive Soil Properties Stabilized by Using Fly Ash, Waste Cement Bag Fiber, And Lime	14:15-14:25	
	7123	A Thermo-Acoustic Investigation Of L-Histidine Amino Acid Solvation in Aqueous Ionic Salt Solutions with The Goal of Healing Hypokalaemia.	14:25-14:35	
	6090	Ultrasonic Investigation Of L-Leucine in Aqueous Electrolyte Solutions	14:35-14:45	
	7840	Advancements In Energy Recovery from Waste Plastic Material for Sustainable Environment and Circular Economy	14:45-14:55	
	3368	A State-Of-The-Art Review on The Mechanical Behaviours of Geopolymer Concrete for Sustainable Development	14:55-15:05	
	808	Mechanical Investigation of Agave Fiber Reinforced Composites Based on Fiber Orientation, Fiber Length, And Fiber Volume Fraction	15:05-15:15	
	5589	Effect Of Superabsorbent Polymer and Slag Cement on Concrete Properties	15:15-15:25	
	8689	Treatment Of Textile Wastewater Using Activated Carbon Method	15:25-15:35	
	1328	Planning & Designing of Amphibious House	15.35-15.45	
	Session summary/vote of thanks and online photo session		15.55-16.00	

2nd International Conference on Sustainable Materials and Practices for Built Environment (SMPBE - 2023)

SESSION 12 (Offline)

Location: Room No. 307, 1AB

20.01.2023 (14:00 PM - 15:15 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Sustainable Materials	2808	Effect Of ICP And ECP on Performance of Cement Based Battery System – An Experimental Investigation	14:00-14:15	Dr. Gaurav Sancheti gaurav.sancheti@jaipur.manipal.edu +91-9694727780 & Mr. Alok Damare alok.damare@jaipur.manipal.edu +91-8952075260
	8660	Glass Powder Concrete – A Study on Alkali-Silica Reaction and Environmental Impact	14:15-14:25	
	5267	Satellite Data-Based Study and Prediction of Urban Footprints and Growth Direction for Jaipur Suburb Region in Western India	14:25-14:35	
	463	Prediction Of the Concentration of PM2.5 And NO _x Using Machine Learning-Based Models	14:35-14:45	
	4903	An Overview of How Rising Work from Home Culture Is Impacting Design, Material and IoT Choices of Real-Estate Construction Industry in India	14:45-14:55	
	5376	Effect Of Sandstone Slurry Waste on The Geotechnical Properties of Clay Subgrade	14:55-15:05	
		Session summary/vote of thanks and photo session		