

International Conference on Sustainable Materials and Practices for Built Environment (SMPBE) 2021

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

25.11.2021 (13:00 PM - 15:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Concrete Technology	Dr. Prabir Sarker Use of Nickel Slag as a Supplementary Cementitious Materials		13:00 - 13:30	Mr Charanjeet Singh, charanjeet.singh@jaipur.manipal.edu, +91-8001822671
	9379	Geopolymer Concrete: A Sustainable Green Concrete with Reduced Greenhouse Gas Emission	13:30-13:40	
	9466	Synthesis of Fly-Ash and Slag Based Geopolymer Concrete For Rigid Pavement.	13:40-13:50	
	9514	Experimental Investigation on Mechanical Properties of Fly Ash-GGFBS Based Go-Geopolymer Concrete Using Mineral Sand (Quartz-Feldspar) As Fine Aggregate	13:50-14:00	
	9516	Comparative study on mechanical properties of fly ash & ggfbs based geopolymer concrete and opc concrete using nano-alumina	14:00-14:10	
	9698	Physical properties and acid resistance of geopolymer mortar prepared from synthetic water containing hydrochloric acid	14:10-14:20	
	9705	Effect of silica fume and recycled concrete aggregate on the mechanical properties of ggbs based geopolymer concrete	14:20-14:30	
	8786	Graphene oxide as nanomaterial in developing sustainable concrete - a brief review	14:30-14:40	
	8844	Lignin-based organic coatings and their applications: a review	14:40-14:50	

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25.11.2021 (13:00 PM - 15:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Concrete Technology				Dr Gaurav Sancheti, gaurav.sancheti@jaipur.manipal.edu, +91-9694727780
	9469	Mathematical model for the impact strength of triple-blended steel fiber self-compacting concrete based on the experimental study	13:30-13:40	
	9496	Polishing performance of recyclable and reusable sio2 magnetic nanoparticle-based polishing-abrasive	13:40-13:50	
	9497	Potential use of copper slag waste as resource material for sustainable construction	13:50-14:00	
	9500	A review on concrete's durability in india – framework for performance-based approach	14:00-14:10	
	9502	Stabilization of subgrade of flexible pavement using paper mill waste ash	14:10-14:20	
	9508	Non-destructive test analysis on concrete with rice husk ash and crushed stone additives	14:20-14:30	
	9517	Durability assessment of self-curing high performance concretes containing zeolite admixture	14:30-14:40	
9572	Mechanical characterization and simulation of pcgtaw welded thin sheet of sdss material	14:40-14:50		

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25.11.2021 (15:00 PM - 17:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Geotechnical Engineering	Dr. Neelima Satyam		15:00-15:30	Mr. Kamal Kumar, kamal.kumar@jaipur.manipal.edu , +91-9414810488
	10323	Experimental study on factors affecting the efficiency of microbially induced carbonate precipitation in soil	15:30-15:40	
	10522	Performance evaluation of friction dampers for building with soil-structure interaction	15:40-15:50	
	9378	Investigational study on the influence of lime and coir fiber in the stabilization of expansive soil	15:50-16:00	
	9150	Life cycle environmental and economic assessment of human night soil based malaprabha biogas plant.	16:00-16:10	
	8785	Design of an impact absorbing green composite.	16:10-16:20	
	9088	Determining the feasibility of using pet bottles as construction material in urban context.	16:20-16:30	
	10037	Performance Assessment of Pervious Concrete Road on Strength and Permeability by using Silica Fume.	16:30-16:40	
	9693	Marble Dust as a Binding Material in Concrete: A Review	16:40-16:50	

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25.11.2021 (15:00 PM - 17:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Concrete Technology	Prof. Kevin Paine Autonomic self-healing of concrete: advances in micp and sensing capability		15:00-15:30	Dr Priyansha Mehra, priyansha.mehra@jaipur.manipal.edu u, +91-9828492752
	9576	Ftir analysis of silica fume and iron dust added concrete	15:30-15:40	
	9670	Numerical study on fire resistance behavior of eps sandwich panels	15:40-15:50	
	9672	Primary treatment of dairy wastewater using bio based natural coagulants	15:50-16:00	
	9675	Influence of nano structured graphene oxide on strength and performance characteristics of high strength fiber reinforced self-compacting concrete	16:00-16:10	
	9676	Fracture behavior study of self-healing bacterial concrete	16:10-16:20	
	9678	Computational analysis of al-li/tic surface composite using friction stir processing	16:20-16:30	
	9680	Clay bricks using building debris	16:30-16:40	
	9682	Reinforced concrete deep beam shear retrofitted with deep embedded bar: a numerical investigation	16:40-16:50	

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25.11.2021 (15:00 PM - 17:00 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Geotechnical Engineering	Prof. Krishna R. Reddy		15:00-15:30	Mr Sagar Gupta, sagar.gupta@jaipur.manipal.edu , +91-7837888980
	9703	Stabilization of tropical soil using calcium carbide residue and rice husk ash	15:30-15:40	
	10014	Study of soil properties affected by Leachate – A case study at Urali-Devachi, Pune, India	15:40-15:50	
	10610	A Study on Soil Stabilization for Some Tropical Soils	15:50-16:00	
	10118	Jaali a tool of sustainable architectural practice: understanding the feasibility and usage	16:00-16:10	
	8975	Strategy for promoting utilization of non-biodegradable wastes in affordable housing in India	16:10-16:20	
	9993	Synthesis, Characterization, and Thermal Analysis of Ti-Co-RE and Zr-Co-RE based Non-Evaporable Getter Materials	16:20-16:30	
	8939	Effect of silica fume and red mud on mechanical properties of ferrochrome ash-based concrete	16:30-16:40	
	9315	Study of bamboo as a building material: construction & preservation techniques and its sustainability	16:40-16:50	

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

26.11.2021 (09:30 AM - 11:30 AM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Concrete Technology	Prof. Biswajit Bhattacharjee		09:30-10:00	Dr Shaik Hussain, shaik.hussain@jaipur.manipal.edu , +91-8885237262
	10121	Investigation of thermal conductivity and physical properties of oil palm trunks/ramie fiber reinforced biopolymer hybrid composites as building bio-insulation	10:00-10:10	
	10318	Studies on the effects of basalt fibers on the durability characteristics of high strength self-compacting concrete	10:10-10:20	
	10320	Elimination of mb and cv dye from wastewater by citrus limetta peel as an adsorbent	10:20-10:30	
	10330	Effects of quality of water on the setting times and compressive strength of concrete	10:30-10:40	
	10521	Development of fire retarding composite board for fire compartmentation application using waste denim. A review.	10:40-10:50	
	9689	Chemically treated rubber tyre concrete review	10:50-11:00	
	9369	Pollutant extraction from water and soil using Montmorillonite clay-polymer composite: a rapid review	11:00-11:10	
	9812	Study of the delamination factor and taper angle in drilling of natural fiber reinforced epoxy nanocomposite materials	11:10-11:20	

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

26.11.2021 (09:30 AM - 11:30 AM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Building Materials				Dr Tej Bahadur, tej.bahadur@jaipur.manipal.edu , +91-8696034565
	9015	Experimental Study on Replacing Sand by M-Sand and Quarry Dust in Rigid Pavements	10:00-10:10	
	9373	Effect of Cover Thickness on Flexural Behaviour of Conventional and Self Compacting Concrete Beams Subjected to Elevated Temperature	10:10-10:20	
	9498	Experimental Study on the Effect of Superplasticizer on Workability and Strength Characteristics of Recycled Coarse Aggregate Concrete	10:20-10:30	
	9961	Utilization of Reclaimed Asphalt Pavement (RAP) as Granular Sub-base Material in Road Construction	10:30-10:40	
	9995	Impact of waste ceramic tile on resistance to fire and abrasion of self-compacting concrete	10:40-10:50	
	9996	Analysis and cost comparison of framed structure using different building materials under different load combinations	10:50-11:00	
	9374	Agro-Wastes Sustainable Materials for Wastewater Treatment: Review of Current Scenario and Approaches	11:00-11:10	
	9154	Effect of high temperatures on the behavior of rcc columns in compression	11:10-11:20	

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26.11.2021 (11:30 AM - 13:30 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Concrete Technology		Dr. Iveta Novakova	11:30-12:00	Mr. Sourav Kumar Das, souravkumar.das@jaipur.manipal.edu , +91-8890951739
	9155	Mechanical performance of sustainable ternary blended self-compacting concrete with waste crushed glass	12:00-12:10	
	10608	Studies on the durability properties of high strength self-compacting concrete incorporating steel fibers.	12:10-12:20	
	10609	Durability assessment of high-performance concretes containing graphene oxide	12:20-12:30	
	10727	Mathematical model valuation for recycled material mechanical strengths	12:30-12:40	
	8865	Resistance against sulphate attack in concrete by addition of nano alumina	12:40-12:50	
	9016	Quarry of moisture damage impact on reclaimed asphalt pavement (rap) enriched bituminous mix by upv test (non-destructive test)	12:50-13:00	
	9505	Mechanical and durability performance of self-compacting concrete with waste ceramic tile as a replacement for Natural River sand	13:00-13:10	
	9695	Performance of Manufactured Aggregate in the Production of Sustainable Lightweight Concrete	13:10-13:20	

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26.11.2021 (11:30 AM - 13:30 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Building Materials				Mr Sanchit Anand, sanchit.anand@jaipur.manipal.edu , +91-9928528858
	10000	Image Based Deterioration Assessment of Fiber Reinforced No Aggregate Concrete	12:00-12:10	
	10484	Crack Growth Simulation in a Functionally Graded Material Plate with Uniformly Distributed Pores using Extended Finite Element Method	12:10-12:20	
	9668	Integrated Life Cycle Cost Comparison and Environment Impact Analysis of the Concrete and Asphalt Roads	12:20-12:30	
	9014	Utilization of phosphogypsum and rice husk to develop sustainable bricks	12:30-12:40	
	9813	Effect on Mechanical, Durability and Micro Structural Properties of High Strength Self Compacting Concrete with Inclusion of Micro and Nano Silica	12:40-12:50	
	8936	Test Suite Minimization Using Particle Swarm Optimization	12:50-13:00	
	10038	Eco-Friendly and sustainable Solutions for conflict affected areas: A Case from Red Corridor Region	13:00-13:10	
	10117	Mud Jaalis of Surguja: A Tribal Narrative from Chhattisgarh	13:10-13:20	

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26.11.2021 (14:30 PM - 16:30 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Concrete Technology	Dr. Laszlo		14:30-15:00	<p>Mr Vikram Singh Kashyap, vikramsingh.kashyap@jaipur.manipal.edu, +91-9829221130</p> <p>Mr Raghuvesh Tiwari, raghuvesh.tiwari@jaipur.manipal.edu, +91-7976145286</p>
	9375	Use of industrial waste burnt residue to develop sustainable brick	15:00-15:10	
	9376	Effect of fibers on stress-strain behavior of concrete exposed to elevated temperature	15:10-15:20	
	9370	Impact of heating cooling regime on flexural behaviour of self- compacting concrete beams exposed to elevated temperatures	15:20-15:30	
	9997	Bacterial concrete: a review on self-healing properties in the light of sustainability	15:30-15:40	
	10015	Use of clean energy for sustainable livelihood in rural areas: a case from south Odisha	15:40-15:50	
	9851	Bond and durability studies of fiber reinforced no aggregate concrete	15:50-16:00	
	9987	Optical analysis of polycarbonate – lead nitrate composite films for uv-a shielding applications	16:00-16:10	
	9149	Waste to Resource: applicability of fly ash as landfill geoliner to control ground water pollution	16:10-16:20	

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26.11.2021 (14:30 PM - 16:30 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Environmental Engineering	Prof. Munish Kumar Chandel		14:30-15:00	Mr Alok Damare, alok.damare@jaipur.manipal.edu , +91-8952075260
	9684	Solar thermal air heater for sustainable development	15:00-15:10	
	9279	Band Gap Reduction and Zn Related Defects Enhancement in Zn(Al, Ce)O Nanoparticles	15:10-15:20	
	9980	Ultrasonic Characterization on Fertilizer Solutions in view to Sustainable Agriculture	15:20-15:30	
	9697	Synthesis and Characterization of Nanostructure Calcite Thin Films Deposited by Dip Coating	15:30-15:40	
	9677	Enhancement of geotechnical properties of kaolinite clay using agricultural waste	15:40-15:50	
	8935	Design and material selection for sustainable development of a novel double pass solar air heater with porous fins	15:50-16:00	
	9510	Isolation of Sunn Hemp Fiber by Microwave Irradiation and its effect on Reinforced Epoxy Composite for Electrical Application	16:00-16:10	
	9700	Influence of Chemical Synthesis Process on the Properties of Calcium Hydroxide Nanoparticles	16:10-16:20	

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SESSION 12 [Click here to join the meeting](#)

26.11.2021 (14:30 PM - 16:30 PM)

Theme of the session	Paper ID	Paper Title	Time (Hours)	Session Moderator
Building Materials				Dr Parwez M Akhtar, parwez.akhtar@jaipur.manipal.edu , +91-8235630860
	9998	An Experimental Study on Flexural & Tensile Strength of Concrete by Using Sugarcane Bagasse Ash & Steel Fiber	15:00-15:10	
	9368	Progressive Collapse: Analytical study on the behavior of Reinforced Concrete frame using E-Tabs	15:10-15:20	
	10326	Laboratory evaluation of an indigenous developed light weight deflectometer as construction control tool for pavement layers	15:20-15:30	