



Third International Conference on Construction Materials and Structures on Synergy of Materials and Structures

All poster presenters are requested to be ready with their posters by 9:00 AM

Day 2, 4th July 2025

Dr. A V Rahul, IIT Tirupati, Dr. Najeeb Shariff Mohammad, IIT Bombay & Dr. Souradeep Gupta, IISc Bangalore, Dr. Deepak Kamde, Dr. Jayachandran

Sl. No.	Poster timings	Abstract ID	Poster Title
1	Poster Mounting Time 08:30 Evaluation Time 14: 30 - 17: 30	0097	Framework for the Industry 5.0 optimized concrete mixes
2		0282	Numerical analysis on the plain concrete beams strengthened with AR glass -FRCM system
3		0356	A comprehensive review on the influence of fibre on the mechanical performance of geopolymer concrete at elevated temperatures
4		1137	Development of Mix Design for Lightweight Concrete using Micron Balls as a Coarse Aggregate
5		1484	Numerical behaviour of encased and non-encased concrete filled steel tubular columns
6		1638	Finite Element Analysis of Thin-Walled Laminated Composite Beams with Varying Fibre Angle under Complex Loading Conditions
7		1676	The significance of encapsulation in Bio-concrete for the amplification of strength and durability properties- A review
8		2236	Behaviour of steel members under fire
9		2660	Elastic Properties of Geopolymer Concrete Composites with Different Fiber Reinforcements
10		2781	Investigation on Crack Propagation Behaviour of UHPC Reinforced with Hybrid Steel Fibers
11		3199/1978	Performance evaluation of square RCC hollow columns with varying core diameters
12		3480	Investigation of the properties of glass fiber reinforced concrete
13		3500	Performance of 3D structural systems under the effect of varied soil rigidity
14		3628	Durability and Microstructural Characteristics of Geopolymer Concrete with Recycled Aggregates- A Review
15		3897	Numerical simulation of fracture energy of concrete using regression models
16		3903	Evaluation of Lateral Response in Non-Ballasted Steel Girder Railway Bridge with Y-Shaped Sleeper Track
17		3939	Experimental Interface fracture studies for recycled coarse aggregate concrete in flexure with digital image correlation method
18		4156	Static & dynamic analysis of multistory commercial building of composite structure using ETABS software
19		4256	Timber concrete composite slab: A Comprehensive Review of Design Methodologies and Structural Insights
20		4821	Comparative Analysis of Steel and Composite Building Subjected to Various Loading
21		4826	Effect of fluid viscous damper on the seismic responses of the base-isolated building
22		3669	FEM Simulation for Damage Detection in Reinforced Concrete Beams
23		4911	Experimental and Numerical Investigation of Crack Detection in Reinforced Concrete Beams
25		6733	Comparative Analysis of Static and Dynamic Seismic Response of symmetric and asymmetric loading on a Multi-Storied Structure
26		6799	Composite Deck Slabs: A Comprehensive Review of Design Methodologies and Structural Insights
27		6845	Influence of Compression Reinforcement on Modulus of Elasticity in RC Beams : Experimental and Computational Investigation
28		5633	Ultra-high-performance concrete's Properties at Elevated Temperature
29		7144	A Review on Shear Walls using Cold Formed Steel
30		7310	Thermophysical Behaviour of Shape Stabilized PCM Incorporated with Geopolymer Mortar
31		7342	Assessment of a steel frame structure isolated with lead rubber bearings under seismic loading
32		7343	The Weight Optimization of Pre-Engineered Buildings with Tweaks in Bay Spacing
33		7412	Analysis and Design of Multistory Building with Composite Structure using ETABS Software
34		7511	Fire Performance of Fibre Reinforced Concrete Under Flexure
35		7586	Structural Performance of GFRP-Concrete Composite Structures Under Seismic and Wind Buckling: A Critical Review
36		9423	Seismic performance assessment of a non-overflow section of a masonry gravity dam using time-history FEM analysis
37		9450	The Role of Material Models in ATENA: A Study on Finite Element Analysis Outcomes
38		9490	Performance-Based Evaluation of Coal Mine Over-burden as a Substitute for Construction-Grade Fine Aggregate
39		9858	Review for Progressive Collapse: Mechanisms, Influencing Factors, and Mitigation Strategies
40		257	Value added utilisation of fayalite rich copper slag through chemical and mineral transformation for the fabrication of phospho based geopolym
41		2648	FRP wrapped and unwrapped concrete column capacity prediction using experimentation and parsimonious regression technique
42		6136	Performance Assessment of All-Steel Buckling Restrained Braces with Different Core Materials by Nonlinear Finite Element Modelling
43		2042	A comprehensive review on Sugarcane Bagasse Ash for partial replacement of cement for sustainable development
44		6553	Parametric Effects of Nano Titanium Dioxide on the Durability and Mechanical Properties of Cement Concrete using Response Surface Methodology
45		5660	Development of eco-friendly mortar using biochar and coconut shell as partial replacement for cement and fine aggregate: A comparative study
46		8094	Cost Versus Seismic Performance Of Reinforced Concrete Buildings Designed For Different Force/Response Reduction Factors
47		2386	Statistical analysis using artificial neural networks and regression analysis of UHFRC at high temperature
48		6182	Application of biocementation to enhance performance of fly Ash bricks