The 6th Asian Conference on Ecstasy in Concrete (ACECON 2025)

8-10 December 2025, Taj Deccan Hotel, Hyderabad, Telangana, INDIA

Program Summary

Monday 8th December 2025			
8:00 – 10:00	Conference registration - Welcome desk (SYN room)		
09:45 - 11:15	**Opening Ceremony (Kohinoor Hall)**		
11:15 - 11:30	**Coffee break**		
	Plenary Session (Kohinoor Hall)		
11:30 - 11:35	**Session Chair: Prof. Ravindra Gettu**		
11:35 - 12:05	**Plenary Address 1: Prof. S.P. Shah** -- Functionalized Materials For Carbon-Conscious Concrete		
12:05 - 12:35	**Plenary address 2: Prof. Nemy Banthia** -- Strategies For Reducing Life Cycle Carbon Emissions in Our Built Environment		
12:35 - 13:05	**Plenary address: Prof. Venkatesh Kodur** -- Engineering Fire Performance of Concrete Structures incorporating Fiber Reinforced Polymer Reinforcement		
13:05- 13:35	**Presentations by Sponsors**		
	M/s ARS Steel and Alloy Internatonal Pvt. Ltd.		
	M/s Bangur Cement		
	M/s SIKA India Pvt. Ltd., and M/s Adani Cement		
13:35 – 14:35	Lunch		
14:35 – 16:00	Parallel Sessions		
	Room Synergy	Room Kohinoor	Room Evoque
	Keynote presentation: Prof. Pradeep Ramancharla -- Earthquake Resilience of Built Environment - Challenges and Opportunities	**Keynote presentation: Er. Vinay Gupta** -- Bridge Failures: Causes and Remedies	**Keynote Presentation: Prof. Narayanan Neithalath** -- Emergent Manufacturing Approaches Towards Materials Efficiency and Decarbonization of Cements
	Session : Solutions for Sustainable Cities	Sessions: Innvovations in Concrete	Session: Low Carbon Concrete
16:00 - 16:20	**Coffee break**		
16:20 - 18:00	Session : Solutions for Sustainable Cities	Session: Innovations in Concrete	Session: Low Carbon Concrete
10:00 - 18:00	Exhibit and Display		

Tuesday 9th December 2025			
8:00 – 10:00	Conference registration - Welcome desk (SYN room)		
	Plenary Session (Kohinoor Hall)		
9:30 - 9:35	**Session Chair: Prof. K.V.L. Subramaniam**		
09:35 - 10:05	**Plenary Address: Prof. Caijun Shi --** What are the Challenges during the Design and Application of UHPC?		
10:05 - 10:35	**Plenary address: Prof. B. Bhattacharjee** -- Climate Specific Concrete Distress in Indian Tropical Condition: Some Cases		
10:35 - 11:05	**Plenary Address: Dr. L.P. Singh** -- Advancing the performance and durability of cementitious materials through nanotechnology		
11:05 - 11:30	**Presentations by Gold sponsors**		
	M/s ECMAS Construction Chemicals Pvt. Ltd.		
	M/s My Home Industries Private Limited, M/s RDC Concrete (India) Ltd		
	M/s NU TECH Equipments, SIMPLI FORGE, M/s Pidilite Industries, UCON		
11:30 - 11:45	**Coffee Break**		
11:45 -- 13:30	Parallel Kohinoor		
	Room Synergy	Room Pavilion	Room Evoque
	Keynote Presentation: Prof. Liberato Ferrara -- A design approach to 3D concrete printing materials and processes, combining Computational Particle Fluid Dynamics modelling and AI- driven experiments	**Keynote presentation: Prof. Prasad Rangaraju** -- Performance Evaluation and Mechanistic Insights into Rapid-Set Cementitious Repair Systems for Bridge Decks: Environmental Sensitivity, Substrate Interaction, and Construction Methodology	**Keynote presentation: Dr. Prannoy Suraneni** -- Supplementary cementitious materials: Processing, structure, and reactivity
	Session: Smart and Adaptive Concrete	Sessions: Innovations in Concrete	Session: Low Carbon Concrete
13:30 – 14:30	**Lunch**		
14:30 – 16:35	Parallel Sessions		
	Room Synergy	Room Kohinoor	Room Evoque
	Keynote presentation: Prof. S. Saraswati -- Circular economy strategies in concrete technology and construction	**Keynote Presentation: Prof. Pat Rajeev** -- Large-Scale 3D Concrete Printing: from Concept to Reality	**Keynote presentation: Prof. Manu Santhanam** -- Implications of Using Low Clinker Systems on Durability Design of Concrete
	Session: Circular Economy in Concrete	Session: Innovations in Concrete	Session: Low Carbon Concrete
16:35 - 17:00	**Coffee break**		
	Parallel Sessions		
	Room Synergy	Room Kohinoor	Room Evoque
	Session Chair: Prof. Anurag Misra	Session Chair: Er. Pradeep Garg	Session Chair: Dr. Shishir Bansal

17:00 - 18:30	**Invited presentation: Er. S. Navanale** (Long Span Structures Pvt. Ltd.)-- Ultra High Performance Fiber Reinforced concrete- An Efficient solution for sustainable infrastructure	**Invited Presentation: Nilotpal Kar** (SIKA) -- Low Carbon, High Performance Concrete – From Lab to Reality	**Invited Presentation: Er. Senthilkumar** (L&T) -- Advanced Construction Technology ' The Game Chager for Speed and Scale in Mumbai Ahmedabad High Speed Rail (MAHSR) Project
	Invited Presentation: Er. Pierre Hoffman (Dextra) -- Sustainable & innovative designs of concrete lining, from mined tunnels to mechanized tunnels	**Invited Presentation: Er. Florian Krenn** (Geoconsult India Pvt. Ltd.) -- Large NATM Cross Sections for Urban Infrastructure	**Invited presentation: Er. Ch. Anjaneya Prasad** (Metey Consultants) -- Concrete Technology for High-rise Buildings
	Invited presentation: Er. Amit Barde (LnT Precast Inititative) -- Modern Trends in Building Construction with New Mantra of Mechanization and Digitalization	**Invited presentation: Dr. Mokal Manish** (AFCONS India Pvt. Ltd.)-- Atal Tunnel: A Showcase of Engineering Innovations and Challenges	**Invited Presentation: Er. Anthony Sung** (Cementaid (S.E.A) Pte Ltd) -- Hyperbolic Poreblocking Ingredient for Sustainable Concrete Structures
	Invited presentation: Er. Avijit Chaubey (RDC India Ltd.) -- Ultrafine Materials for Sustainable High-Performance Concrete: Enhancing Performance Parameters and Real-World Case Studies in Indian Projects	**Invited Presentation: Mr. Rajeev Gupta** (ECMAS Construction Chemicals Pvt Ltd)-- The future belongs to living structures	**Invited presentation: Er. Seelam Prasad** (UCON) -- Case Study on the Influence of Prestress-Induced Elastic Shortening on Vertical Elements of Building Systems
10:00 - 18:00	Exhibit and Display		
18:30 - 22:00	**ICI Awards function followed by dinner (Kohinoor Hall)**		

Wednesday 10th December 2025			
8:00 – 10:00	Conference registration - Welcome desk (SYN Room)		
	Plenary Session (Kohinoor Hall)		
09:30 - 09:35	**Session Chair: Prof. N.V. Ramana Rao**		
09:35 - 10:05	**Plenary Address: Er. V.N. Heggade** -- From Risk to Resilience: Rethinking Infrastructure Codes for a Changing Climate		
10:00 - 10:30	**Plenary address: Prof. Ravindra Gettu** -- Textile Reinforced Concrete: Challenges and Opportunities		
10:35 - 11:05	**Presentations by Sponsors**		
	M/s Forsoc Chemicals (India) Pvt. Limited, M/s Mapei Construc ons and Chemicals LLC		
	M/s Nuvoco Vistas Corporaton Limited, MYK Arnment Private Limited, M/s Natural Cemeco Pvt. Ltd.		
11:05 - 11:30	**Coffee Break**		
11:30 -- 13:30	Parallel Session		
	Room Synergy	Room Kohinoor	Room Evoque
	Keynote Presentation: Prof. N.V. Ramana Rao -- Form based Structural Optimization of High Rise Building	**Invited Presentation: Er. Umberto Rico** -- Advancements in Concrete Remedial and Protection: Extending Service Life through Sustainable Practices	**Keynote presentation:** Dr. V. Ramachandra -- Low Carbon Concrete- Some case studies in India
	Session: Circular Economy in Concrete	Session: Innovations in concrete	Session: Low Carbon Concrete
13:30 – 14:30	**Lunch**		
	Plenary Session (Kohinoor Hall)		
14:30 - 14:35	**Session Chair: Prof. S. Saraswati**		
14:30 - 15:00	**Plenary Address: Dr. Manamohan Kalgal** -- Decarbonizing Concrete Construction: A Collective Responsibility		
15:00 - 15:30	**Plenary Address: Prof. Abhijit Mukerjee** -- Circular Economy of Construction – Learning from Nature		
15:30 - 15:45	M/s Redwop Chemicals Pvt. Ltd., M/s Dhirendra Group of Companies, M/s Vishwa Samudra Engineering Private Ltd.		
15:45 - 16:00	**Coffee break**		
16:00 - 17:30	Parallel Sessions		
	Room Synergy	Room Kohinoor	Room Evoque
	Session: Smart and Adaptive Concrete	Session: Innovations in concrete	Session: Low Carbon Concrete
17:30 - 18:30	Closing session (Kohinoor Hall) **Closing session Plenary: Prof. Mahesh Tandon** -- Resilience of bridge construction in climate change scenario Valedictory Function		

The 6th Asian Conference on Ecstasy in Concrete (ACECON 2025)

Detailed Program

Solutions for Sustainable Cities

Dec. 8, 2025 Room Synergy

Session Chair: Prof. Radhakrishna Pillai

14:35 - 15:00	**Keynote presentation:** Earthquake Resilience of Built Environment - Challenges and Opportunities	**Dr. Ramancharla, P.**
15:01 - 15:12	Vertical Greenery Systems: A Passive Strategy for Sustainable Concrete Mid-Rise Development	**Luthade, Y.**
15:13 - 15:24	Shrinkage Mitigation Strategies in Seawater based High Strength Concrete for Coastal Construction	**Ciola Rixy Winslet, A.** , Mavoori H.K., Rakshitha, B., Mohana Krishnan, S., Mohandoss, P.
15:25 - 15:36	Optimization of PZT sensor geometry for enhanced electrical impedance-based monitoring of cement hydration	**Duddi, M.**, Subramaniam, K.V.L.
15:37 - 15:48	Performance Evaluation of Fly Ash and Metakaolin Blended Concrete for Sustainable Construction.	**Raju, S.**, Dasavathu, R., Jeyaraj, R.
15:48 - 16:00	Synergizing Digitization and Sustainability: Advancing concrete technology for a greener future	**Amol A. Patil**

Dec. 8, 2025 Room Synergy

Session Chair: Prof. T. Tezeswi

16:20 - 16:32	Corrosion propagation and bond-strength degradation in prestressed concrete with ordinary Portland cement	**Srinivasan, Srilakshmi**, Pillai, R.
16:33 - 16:44	Fracture behavior of SFRC blocks under local splitting conditions	**Kirupakaran, K.**, Bhadury, M., Gettu, R.
16:45 - 16:56	Alternative approach for performance assessment of galvanic cathodic protection systems in reinforced concrete	**Thalakkal, Keerthi**, Pillai, R.
16:57 - 17:08	A Comparative Study on the Effect of Temperature on Flexural Capacity of Corroded Reinforced Concrete Beams: Implications for Durable and Sustainable Structures	Bommisetty, J., Polepally, S., **Bharath Kumar, K.**, Tadepalli, T.
17:09 - 17:20	Enhancing Durability and Sustainability of Concrete in Metro Rail Projects through Supplementary Cementitious Materials (SCMs)	**Arunachalam, P.**, Thalaimalaisamy, S., Rajamohan, S.
17:21 - 17:32	E5 Internal Cure: for performance enhancement, efficiency, and sustainability	**Milind S. Joshi**
17:33 - 17:44	Enhancing Durability for sustainable infrastructure: A Case Study on the Degradation of a Desalination Plant due to Environmental and operational Exposure	Kumari, K., M, Sugunadevi, M., Preetha, R., Chattopadhyaya, S., Suresh N
17:45 - 17:56	A comprehensive review on synergetic effect of recycled aggregates and supplementary cementitious materials on concrete mechanical properties	Sofi, A., Mounika, P.

Innovations in Concrete

Dec. 8, 2025 Room Kohinoor

Session Chair: Prof. Rathish Kumar

14:35 - 15:00	**Keynote presentation:** Bridge Failures: Causes and Remedies	**Er. Vinay Gupta**
15:01 - 15:12	Coal Bottom Ash as a Partial Replacement of River Sand to Produce Sustainable Concrete of Various Grades	**Sarkar, B.**, Dinda, A., Ghosh, P.
15:13 - 15:24	Thermo-Cyclic Behaviour of Normal and High-Strength Concrete	Balagam, Vidya., Srinivasa Rao, K.
15:25 - 15:36	Evaluating the kinetics of highly reactive Rhyolitic aggregate with pyrite-containing aggregate at varying temperature conditions.	**Srivastav, Adarsh**, Yadav, R., Pal, M.
15:37 - 15:48	Rheology Control Using Bentonite for Extrusion-Based 3D Printing of Foamed Geopolymer	**Raj, S.**, **Singh, P.**, Paritala, S., Subramaniam, K.V.L.
15:48 - 16:00	Imaging-Based Evaluation of Surface Fracture Behaviour in Multi-Binder Fiber-Reinforced Concrete at Elevated Temperatures	**Krishna Priya Rao, S.**, Tadepalli, T.

Dec. 8, 2025 Room Kohinoor

Session Chair: Prof. K. Srinivasa Rao

16:20 - 16:32	Influence of High-Performance Composites in RC Beam-Column Joints under Lateral Loading	**Siva Chidambaram**, R., Agarwal, P., Moka, V.
16:33 - 16:44	Effect of Textile Reinforcement Ratio and Fiber Hybridization on Crack Behaviour in Basalt Fabric reinforced cementitious composite (BTRC)	**Tata, Naga Bhagyasri.**, Prasad, D.
16:45 - 16:56	Effect of compression on masonry unit with incorporation of jute fibers using recycled aggreagtes	Rahul S.R.
16:57 - 17:08	Terrain-Tailored Mix Design for 3D-Printable Concrete in Extreme High-Altitude Environment	**Singh, P.**, Paritala, S., Raj, S., Subramaniam, K.V.L.
17:09 - 17:20	Development of Predictive Models for Rheological and Mechanical Properties of Triple - Blended Fiber Reinforced Self-Compacting Concrete	**Vijaya Kumar, S.**
17:21 - 17:32	Steel–Concrete Composite Bridge Construction Design, Performance, and Rehabilitation Strategies	**Dhawan, S.K.**
17:33 - 17:44	Statistical Analysis of Compressive Strength of Ultra-High Performance Concrete	**Singh, B.**, **Ojha, P., Trivedi, A., Kumar, R., Singh, L.**
17:45 - 17: 56	Multi-Parameter Qualification Protocol for Ordinary Portland Cement: Integrating PSD, FTIR, and TGA for Predictive Performance	**Damion, T., Ramagiri, K., Periaswamy, A.**

Dec. 9, 2025 Room Kohinoor

Session Chair: Prof. V. Bhikshma

11:45 - 12:10	**Keynote presentation:** Performance Evaluation and Mechanistic Insights into Rapid-Set Cementitious Repair Systems for Bridge Decks: Environmental Sensitivity, Substrate Interaction, and Construction Methodology	**Prof. Prasad Rangaraju**
12:11 - 12:22	A Study on the flow of Self compacting concrete under the impediments in the form of Reinforcement	**Sravankumar, B.**, Prasad, D., Rama Seshu, D., Rao, T.
12:23 - 12: 34	Development of Near-Zero Slump Ultra High-Performance Concrete Mix Design for Long-Span Prestressed Hollow Core Slabs	Addagatla A. S., **Veerendar, C.**, Prakash, S. S.
12:35 - 12:46	Compressive behaviour of columns with GFRP confinement and steel reinforcement	**Prakash, Abhihsek**, Priyadharshani, S., Venkateswara Rao, S.
12:47 - 12:58	Performance Evaluation of 3D Reinforced Concrete Sandwich Panels Incorporating EPS Core	**Sivaramnaik, M.**, Maganty, S., Subramaniam, K.V.L.
12:59 - 13:10	Optimizing the Dosage of Quaternary Blended precursors used in Alkali-Activated Mortar	**Dandepalli, Harshavardhan.**, Pallapothu, S.
13:11 -13:22	Textile Reinforced Concrete as an Alternative to Conventional RC Beam Strengthening Methods	Mohan Lal , **Siva Chidambaram R.**

Dec. 9, 2025 Room Kohinoor

Session Chair: Dr. G.V.P. Bhagath Singh

14:30 - 14:55	**Keynote presentation:** Large-Scale 3D Concrete Printing: from Concept to Reality	**Prof. Pat Rajeev**
14:56 - 15:08	Influence of Aggregate Characteristics on the Buildability of 3D Printed Concrete	**Paritala, S.**, Singh, P., Raj, S., Subramaniam, K.V.L.
15:09 - 15:20	Evaluation of Mechanical Performance of Concrete with Pumice and Silica Fume as Partial Replacements	**Thiruvulluri, A.**, Pusala, K., Palivela, S.
15:21 - 15:32	SpanoCore™: Graphene-Driven Nanoengineering for Next-Generation Cementitious Systems	Gedela, Venkataramana
15:33 - 15:44	Estimating Deterioration in Calcined Clay Based Alkali Activated Mortar using Image Analysis	**Sharif, A.**, P, R., Nayaka, R., Ali, M.
15:45 - 15:56	Effect of steam curing on high-strength concrete: Evaluation using NDT methods	**Khan, A.**, Harish, K., Mishra, S.
15:57 - 16:09	Development of Ternary blended Low Molar Geopolymer Mortar from Industrial Waste- A Sustainable Solution	**Nenavath, A.**, Rathish Kumar, P., P allapothu S. N. R. G., Midathada, L.
16:10 - 16:22	Role of Supplementary Cementitious Materials in Structural-Grade Foam Concrete	**Rakam, A.**, Sahu, S.
16:23 - 16:34	A Study on Graphene Oxide and Hybrid Fibers in enhancing Recycled Aggregate Concrete Properties	**Shinde, N.**

10 Dec. 2025 Room Kohinoor

Session Chair: Prof. K.L. Radhika

11:30 - 11:55	**Keynote presentation:** Concrete Technology for High-rise Buildings	**Er. Ch. Anjaneya Prasad**
11:56 - 12:08	Performance and Durability of Reinforced Concrete A Review of Corrosion Challenges and Structural Implications	**Dhawan, S.K.**
12:09 - 12:20	Development of Mixture design and Workability Assessment methods for Pumpable Heavy Weight Concrete with Fly ash and Slag	**Venkitasamy, Venkatachalapathy.**, Santhanam, M., Kumar, A.
12:21 - 12:32	Bond Behaviour Between CNSA blended Concrete and Reinforcing Bars by Using Pull-out Test	**Vedulapurapua, N.**, Mendu, J., Kollimarla, S., Chapati, R.
12:33 - 12:44	Investigation on Flexural Behaviour of RCC Beam of M20 Grade Concrete using 100% Recycled Aggregate	**Gangaram, S.**, Bhikshma, V., Janardhana, M.
12:45 - 12:56	Experimental Study on Self healing Concrete with the Effect of Sporosarcina Pasteurii Bacteria to improve the Strength and Durability of concrete	**Himangeswari, M.**, Srinivasa Rao, K.
12:57 - 13:09	Influence of fly ash-based aqueous nanosilica on the cement hydration and strength	**Sivaramnaik, M.**, Reddy, K., Subramaniam, K.V.L.

13:10 - 13:22	Study on Strength Properties of a Geopolymer Concrete with Partial Replacement of Coarse Aggregate by Ceramic Tiles	**Prakash, K. E.**
13:23 - 13:34	Cementless Paverblocks using plastic waste and sea sand	Sesha Ratnam, P.

10 Dec. 2025 Room Kohinoor
Session Chair: Prof. Maganti Janardhan Yadav

16:00 - 16:12	Mix Design Optimization for 3D Printable Concrete under HALO (High-Altitude, Low-Oxygen) Conditions	**Mude, H.**, Singh, P., Gandhi, D., Subramaniam, K.V.L.
16:13 - 16:24	Behaviour of Geopolymer Concrete Subjected to Temperatures uo to 500°C	**Dabbi, S., M**, N., Srinivasa Rao, K.
16:25 - 16:36	Influence of Fiber End Geometry and Embedment Length on Pullout Behavior in Steel Fiber-Reinforced Concrete	**Vilas Sankar**
16:37 - 16:48	Incremental Dynamic Analysis of a G+2 RCC Structure with and without Wall loads using SAP2000	**Kumar, A.**, Kumari, N., Jagannadha Rao, K.
16:49 - 17:00	Behaviour of Ambient Cured Fly Ash-Slag Blend Geopolymer Prestressed Railway Sleepers – A Study on Strength, Ecological and Cost Analysis.	**Kannan Rajkumar P.R.**, Srividya T.,
17:01- 17:12	A Study on Strength and Durability Characteristics of Ternary Blended Geopolymer Mortars	Mallikarjuna Rao, G., Jagannadha Rao, K., **Vivek Reddy, P.**
17:13 - 17:24	Potential of Glass Textile Reinforced Concrete for Wastewater Treatment Units	**Samanthula, R.**

Low Carbon Concrete

Dec. 8, 2025 Room Evoque
Session Chair: Prof. S. Suriya Prakash

14:35 - 15:00	**Keynote presentation:** Strategies For Reducing Life Cycle Carbon Emissions in Our Built Environment	**Prof. Narayanan Neithalath**
15:01 - 15:12	Physico-chemical and reactivity assessment of chloride-rich reclaimed coal ashes for their use as supplementary cementitious material	**Thakur, M.**, Kunhi Mohamed, A., Santhanam, M.
15:13 - 15:24	Influence of Hydration Agent on Reactive MgO Based Binders Incorporating Fly Ash as a Silica Source	**Singh, L.**, Misra, A.
15:25 - 15:36	Screening composite cement blends incorporating various calcined clays sources using electrical bulk conductivity measurement	**Nkanga, U.**, Dhandapani, Y., Black, L.
15:37 - 15:48	Performance and Microstructural Evaluation of MgO-based Binders with RHA Cured Under Sealed and Carbonation	Bhagath Singh, G., **Nizamuddin Khadri, S.**, Kumar, S.
15:48 - 16:00	Enhancing Fly Ash–Dolomite Geopolymer Concrete with Graphene Oxide: A Path Toward Ultra-High-Performance Materials	**Rathee, M.**, Misra, A.

Dec. 8, 2025 Room Evoque
Session Chair: Dr. Anil Joseph

16:20 - 16:44	**Invited Presentation:** An Overview of Mumbai Coastal Road Project- A Success Story	**Dr. Vishal Thombare**
16:45 - 16:56	Effect of composition on the physico-mechanical properties of Calcium-Silicate Hydrates- A literature review	**Kumar, Amit**, Bishnoi, S.
16:57 - 17:08	A Comparative Thermal Study of Sustainable Limestone Calcined Clay Cement and Ordinary Portland Cement Concrete Beams at Elevated Temperatures	**Bhandaree, S.**
17:09 - 17:20	Low-Carbon and Low-Cost Agro-Based Binder for Non-Structural Elements	**Das, S.**, Edgar Menchaca-Ballinas, L., Chaunsali, P.
17:21 - 17:32	Molecular Level Investigation of Alkanolamines in Cement Hydration	**Das, Dipendra**, Mohamed, A.
17:33 - 17:44	Magnesium Silicate Cement: A Carbon-Sequestering Material for Advancing Environmental Sustainability - An Overview	**Kamalapurkar, S.**, **Brijbhushan, S.**
17:45 - 17: 56	Synergistic Utilization of Alccofine and Sugarcane Bagasse Ash for Enhancing Strength and Durability in Sustainable Concrete	**Narepalem, Soumya**

Dec. 9, 2025 Room Evoque
Session Chair: Dr. Piyush Chaunsali

11:45 - 12:10	**Keynote presentation:** Supplementary cementitious materials: Processing, structure, and reactivity	**Dr. Prannoy Suraneni**
12:11 - 12:22	Development of geopolymer concrete for direct construction application - An innovative mix design	**Sabavath, J.**, Mohandoss, P.
12:23 - 12: 34	Early-Age Hydration Kinetics and Mechanical Performance of Limestone Calcined Clay Cement (LC^3) Concretes: A Preliminary Study	Ikbal, I.
12:35 - 12:46	Characterisation and reaction kinetics of Carbonated wollastonite blended cement composites	**Dandu, Praseeda**

12:47 - 12:58	Temperature Controlled Raft Foundation Concrete for Tall Structures	**Vishwanath, D. N.**
12:59 - 13:10	Mix Design Strategy for Geopolymer Binders Incorporating Fly Ash with Varying Reactivity	**Prasad, P.**, Raj, S., Subramaniam, K.V.L.
13:11 -13:22	Carbonation-induced corrosion of steel in concrete with fly ash and limestone calcined clay	**Hule, U.**, Pillai, R.

Dec. 9, 2025 Room Evoque

Session Chair: Prof. Dinakar Pasla

14:30 - 14:55	**Keynote presentation:** Implications of Using Low Clinker Systems on Durability Design of Concrete	**Prof. Manu Santhanam**
14:56 - 15:08	Mechanical Performance, Hydration, and Chemical Shrinkage Evolution in Low-CO2 Calcium Sulfoaluminate-Belite Cement Produced using Red Mud and Low-Grade Limestone	Thaivalappil, B., **Chaunsali, P.**
15:09 - 15:20	Utilization of discarded concrete from mega construction projects as recycled aggregates	**Ragupathy, A.,** Kiran, K., Suganya P
15:21 - 15:32	Optimizing Geopolymer Mortar Characteristics for Fly Ash-based Sintered Light Weight Aggregate Concrete	**Kanungo, P**., Chandrappa, A., Pasla, D.
15:33 - 15:44	Long-term performance of carbon sequestered geopolymer stabilized earth exposed to 1-year of natural exposure: microstructural and mechanical performance	**Sahoo, P.**, Gupta, S.
15:45 - 15:56	A Study on Physical, Strength and Fracture Characteristics of Hybrid Fibre-Reinforced Fly Ash and Slag-Based Geopolymer Mortar (activated using water glass)	**Mangalapuri, V.**, Gudem, S., Valluru, U.
15:57 - 16:09	Influence of Carbon Curing on the Performance of Biochar Geopolymer Concrete	**Valluru, U**., P, R., Nayaka, R.
16:10 - 16:22	Experimental Studeis on use of Treated Domestic Effluent Water for Concrete with Different Supplimentary Cementitious Materials	**Shinde, B.**
16:23 - 16:34	Advancing Sustainable Construction A Review of Green Solutions for Durable Concrete Structures	Jharia, A.

10 Dec. 2025 Room Evoque

Session Chair: Prof. Jagannadha Rao

11:30 - 11:55	**Keynote presentation:** Low Carbon Concrete- Some case studies in India	**Dr. V. Ramachandra**
11:56 - 12:08	Experimental Evaluation of Geopolymer Mortar Performance Using Fly Ash, GGBS, and Metakaolin as Precursors	**Gopalakrishna, B.**, Pasla, D.
12:09 - 12:20	Non-compliant fly ash as a non-reactive micro-filler in the development of high performance self-compacting concrete: Advancing workability, strength, and durability	**Khan, A.**, Harish, K.
12:21 - 12:32	Application of Recycled Ground Mine Waste Rock as a Low-Carbon Supplementary Cementitious Material in Cement Paste	**Shahin, M.**
12:33 - 12:44	Study on Strength Characteristics of Ternary Blended Geopolymers	Mallikarjuna Rao, G., Mallikarjun, M., **Nitesh, G.**, Prashanth, B.
12:45 - 12:56	Eco-efficient use of low-grade limestone in concrete for waste minimization	**Chauhan, A.**, Santhanam, M.
12:57 - 13:09	Carbonation-Responsive Concrete with Sugarcane Bagasse Ash and Silica Fume: A Cutting-Edge Material Systems Method for Better CO2 Absorption: Carbonation-Responsive Concrete with Sugarcane Bagasse Ash and Silica Fume	**Chintapalli** Lakshmi Sowjanya, Chandan Kumar Patnaikuni
13:10 - 13:22	Development of performance conscious Mix Design for 3D Printable Concrete suitable for Ambient Conditions	Gokul, N. A.

10 Dec. 2025 Room Evoque

Session Chair: Dr. D. Annapurna

16:00 - 16:12	Strength Characteristics of No Cement Concrete Using Artificial Neural Network	Mallikarjuna Rao, G., **Pavan, Pentam**
16:13 - 16:24	An extensive study on Alkali activated cement prepared with different activator combinations	**Devarapalli, Deepthi Carol**, Annapurna, D., Anuradha, P., Radhika K.L.
16:25 - 16:36	Studies on the Influence of Size Effect on Geopolymer Self Compacting Concrete Strength	**Vani, Varudu.**
16:37 - 16:48	Predicting Concrete Compressive Strength with Minimal Input Features: Machine Learning Perspectives	**Yarlagadda, H.**, Vemuri, J.
16:49 - 17:00	Flexural Performance of High-Grade GRM70 & GRM80 Reinforced Geopolymer Beams Incorporating RCA and UFGGBS	**Vanadi, Vinay Kumar**
17:01- 17:12	Testing of Materials for Quality Assurance	Nagendra Ramaswamy, N.
17:13- 17:24		

Smart Adaptive Concrete

Dec. 9, 2025 Room Synergy

Session Chair: Prof. T. Visalakshi

11:45 - 12:10	**Keynote presentation:** A design approach to 3D concrete printing materials and processes, combining Computational Particle Fluid Dynamics modelling and AI- driven experiments	**Prof. Liberato Ferrara**
12:11 - 12:22	Optimization of Nanomaterial Characteristic to achieve Self-Sensing Concrete	**Parhi, S.**, Patro, S.
12:23 - 12: 34	In situ monitoring of printability of alkali activated binder in 3D concrete printing using the embedded smart PZT sensor	**Duddi, M.**, Khuraijam, H., Subramaniam, K.V.L.
12:35 - 12:46	Effect of pre-carbonation duration on CO2 uptake and pH for OPC cured cement paste	**Vootukuri, C.**, Sharma, M.
12:47 - 12:58	In-Situ Resource Utilization for Sustainable 3D-Printed Construction Using Locally Sourced Construction Materials	**Mude, H.**, Singh, P., Gandhi, D., Krishnan, A., Subramaniam, K.V.L.
12:59 - 13:10	Ultrasonic imaging for crack depth measurement in concrete using ultrasonic shear wave tomography	Gopal, R., Samu, V., Santhanam, M., Bhaskar, S.
13:11 -13:22	Parametric Investigation of Bacteria-Based Self-Healing Concrete: Optimization of Biological Agents, Crack Characteristics, and Environmental Conditions	**Vempada, S.**
13:23 -13:36	SHM of A Laboratory Model RCC Bridge Girder subjected to increasing Cyclic Loading based on Experimentally extracted Dynamic Responses adopting Ambient Vibration Technique	Tanbir, M., Rahman, M., Acharjee, D., Bandyopadhyay, D.

10 Dec. 2025 Room Synergy

Session Chair: Dr. Sri Kalyana Rama Jyosyula

16:00 - 16:12	Machine learning Techniques for Compressive Strength Prediction of Recycled Aggregate Concrete Containing Mineral Additives	**Mohiuddin, S.,** Prasad, D., Ramaseshu, D.
16:13 - 16:24	Evaluation of mechanical performance of self-curing concrete incorporating PEG400 and GGBS as partial cement replacement	Bhikshma, K, V., Jagannadha Rao, K., Yugendar, P.
16:25 - 16:36	An Experimental Investigation on the Strengthening of Reinforced-Concrete Beams Using GFRP Strips	Radhika, K.L., Annapurna, D., Anuradha, P., Aslam, M.
16:37 - 16:48	Evaluation of concrete beams reinforced with Glass Fiber-reinforced polymer (GFRP) bars under static loading	Choudhury, D., **Chaitanya, G**., Jagannadha Rao, K., Ravi Dakshina Murthy, N.
16:49 - 17:00	Experimental studies on fiber wrapped polymer retrofitting techniques in strengthening RCC Beam-Column Joints	Florence, S.
17:01 - 17:12	Performance Assessment of Zeolite-Modified Concrete Under Sustained Elevated Temperatures	Haveri, A.
17:13 - 17:24	Performance Evaluation of Composite Cement Concrete under Sustained Eleveted Temperatures	Varun, M.

Circular Economy in Concrete

Dec. 9, 2025 Room Synergy

Session Chair: Dr. A. Bahurudeen

14:30 - 14:55	**Keynote presentation:** Circular economy strategies in concrete technology and construction	**Prof. S. Saraswati**
14:56 - 15:08	Use of sewage effluent as water replacement in self-healing concrete	**Anand, R.**, Goyal, S., Goyal, S., Reddy, M.
15:09 - 15:20	Utilisation of Sugarcane Bagasse Ash to Enhance Acid Resistance in Alkali-Activated Slag Concretes	**Tejas, S.**, Pasla, D.
15:21 - 15:32	Performance assessment of Concrete Incorporating Naturally Weathered Steel Slag as Coarse Aggregate	**Ganesh Kumar, B.**, Selvam, R., V, G.
15:33 - 15:44	The Study of Circular Economy in Concrete: Challenges and Opportunities	**Vijay Kumar B.,** Banu, S.
15:45 - 15:56	Life Cycle Assessment of Mortar with Recycled Mixed Powder as a Supplementary Cementitious Material	**Dwibedy, S.**, Charitha, V., Sharma, M.
15:57 - 16:09	Valorisation of Construction and Demolition Waste Sludge as a High-Reactivity Supplementary Cementitious Material: Implementation Potential in the Indian Context	**Shah, R.**, Ramagiri, K., Periaswamy, A.
16:10 - 16:22	Recycle of Rice Husk Ash for Sustainable Concrete Production: Waste-To-Resource Optimization	**Jyothsna, G.**, Bahurudeen, A., Sahu, P.K.
16:23 - 16:34	Performance of High-Volume Biomass Ash Binders in Acidic Conditions	**Manimaran, N.**, Santhanam, M., Chaunsali, P.

10 Dec. 2025 Room Synergy

Session Chair: Dr. Rajiv Goel

11:30 - 11:55	Life Cycle Analysis of Sugarcane Bagasse Ash Blended Cement: A Case Study of Andhra Pradesh State	**Hanan, H.**, Bahurudeen, A., Appari, S.
11:56 - 12:08	Durability Performance of Sugarcane Bagasse Ash and Waste Glass Powder Ternary Blended Concrete	**Navaneetha E.**, Rao, P.N., Bahurudeen, A.

12:09 - 12:20	Crumb rubber as a Sustainable Alternate to Fine aggregate in Concrete	**Ganesh Kumar, B.**, Selvam, R., V, G.
12:21 - 12:32	A Critical Review on the Utilization of Construction and Demolition Waste as Partial Replacement of M-Sand in Concrete	Arumuga Prabhu J., **Soorya V.A.**, Kanagavel, M., Balamaheswari, M., Hazeen Fathima M.
12:33 - 12:44	Engineering performance of 3D printable geopolymer stabilized excavated earth exposed to 2 years of natural environmental conditions	**Sahoo, P.**, Gupta, S.
12:45 - 12:56	Beneficiated waste concrete fines as a non-conventional binder for 3D-printing concrete	**Vislavath, H.**, Gettu, R., Santhanam, M.
12:57 - 13:09	Residual Prestress Evaluation in Prestressed Concrete Structures Using the Flat-Jack Method: Concept and Challenges	**Farvaze Ahmed A.K.**
13:10 - 13:22	Enhancing Sustainability in Construction through Recycled Concrete Aggregate (RCA): Technological and Policy Perspectives	Verma, Manvendra

Performance Assessment of Zeolite-Modified Concrete Under Sustained Elevated Temperatures	Haveri, A.
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