

11-13 December 2025 | Department of Civil Engineering, Indian Institute of Technology Roorkee

### **DAY 0 | 10 December 2025**

Time		Event	Venue						
16:00	18:00	Registration	OPJ Auditorium						
	Venue Details								
OPJ Aud	ditorium	OP Jain Auditorium, Civil Engineering Department							
CED	CED Lawn Civil Engineering Department Lawn								
SEG Semi	SEG Seminar Room Structural Engineering Group Seminar Room, 1st Floor, Civil Engineering Departmen								
Conferen	Conference Room 1st Floor, Civil Engineering Department								
Golde	Golden Leaf Delhi- Haridwar Road, Roorkee 247667								



### **DAY 1 | 11 December 2025**

			Day 1 - 11 De	ecember 2025			
Ti	me		Event			Venue	
8:30	9:30		Registration		OPJ Auditorium		n
9:30	10:15	Inaugration			OPJ Auditorium		n
10:15	10:45		High Tea			CED Lawn	
		Plenary Session-1: A	khil Gupta, Shapoorji Palle	onji Engineering and		0014	
10:45	11:30		Construction			OPJ Auditoriun	1
		Diament Casaian Or No	malauma mu Danathia. Haireana	ite of British Columbia		OD I A dita i	
11:30	12:15	Plenary Session-2: Nemkumar Banthia, University of British Columbia OPJ Auditorium				1	
		Keynote Ses	sion-1 Radhakrishna Pilla	i, IIT Madras		OPJ Auditoriun	n
12:15	12:45	Kaynota Sassion-2	Shweta Goyal, Thapar Inst				
		Reynote dession 2	C	Conference Roo	m		
12:45	13:45	Te	Technology chnical Sessions: 1 to 3   Tl	neme: Material Behavio	r and Structural D	egradation	
127.11		Electrochemical studis on	Towards coupled	Machine learning-			
		TMT, chromium steel and	chloride-carbonation	based framework for			
		epoxy coated TMT rebars	exposure testing and	corrosion monitoring of			
		in concrete exposed to	models for realistic	reinforced concrete			
12:45	13:00	coastal environment:	corrosion assessment of	structures considering			
		Daniel Ronald Joseph	low-clinker concretes :	carbonation and			
			Nkanga, U, Laskar, E.,	chloride contamination:			
			Pillai, R., Black, L.,	Sagar, C, Aulakh, D,			
			Dhandapani, Y	Sharma, U			
		Piezo impedance based	Corrosion propagation and	Evaluating anchorage			
		diagnostic of carbonation	bond-strength	and flexural bond in			
		effect for reinforced	degradation in prestressed	corroded reinforced			
13:00	13:15	concrete structure: Saini,	concrete with ordinary	concrete with varying			
		M, Moharana, S., Patel, A	portland cement:	cement types:			
			<u>Srinivasan, S</u> Pillai, R.	Kushwah, N.Dhurvey,			
				P., Kulshrestha, M.	OPJ Auditorium	Conference	SEG Seminar
		Performance evaluation of	Corrosion resistance of	Impact of building age		Room	Room
		two generic compounds	steel in limestone calcined	on internal cracks and			
		combating corrosion of	clay cement (LC3) with	wall leakages: a			
		rebar in concrete pore	corrosion inhibitor	statistical analysis:			
13:15	13:30	solution employing as	subjected to carbonation:	Bhalerao, V, Husain, M,			
		preventive and repair	Hule, U,Pichaimuthu, C.,	Nikam, N			
		technique: <u>Deol, P,</u> Tiwari,	Pillai, R.				
		A, Aggarwal, S, Goyal, S.					
		Design and development	Influence of chloride-	Determination of tensile			
		of an experimental setup	induced corrosion on the	properities of individual			
		for real-time evaluation of	mechanical behavior of	carbon fiber yarn:			
13:30	13:45	coupled corrosion-fatigue	tmt bars: Khuptong, L,	Praneeth kumar, J,			
		interaction in reinforced	Kumar, P., Sharma, U.	Kumar, M <u>,Morthala, R</u>			
		concrete beams:		s, s.			
		<u>Vishwakarma, V</u> Ray, S.					
13:45	14:30		Lunch			CED Lawn	
14:30	15:15	Plenary Session-3: Sub	odh Jain (Retd., Member B	oard), Indian Railways		OPJ Auditorium	n
15:15	15:45	Keynote Session-3 Kaizad	Engineer, Ushtha Infinity C Pvt Ltd.	onstruction Company	OPJ Auditorium		า
19.19	10.40	Keynote Session	-4 Mehul Parikh, Pidilite Ir	lilite Industries Limited Conference Room		m	

### **DAY 1 | 11 December 2025**

15:45	16:45	Technical Sessions: 4 to 6   Theme: Condition Assessment of Structures					
		Durability performance of	Advancing in structural	Advanced acoustic			
		CFRP shear strengthened	condition assessment: a	emission indices for real-			
		RC T-beams exposed to	critical review of non- destructive testing	time corrosion			
15:45	16:00	various environmental	methods enhanced by	monitoring in prestressed prisms:			
		circumstances: <b>Shinola</b>	machine learning tools:	Singh, M,S., S., Ganguli,			
		MF, Frederick, F., Sharma,	Madhumita SK, A, A.	A.			
		Structural health	ANN-driven assessment of				
		monitoring based on fiber	residual compressive	Structural health			
		optic sensors: <b>Remanan</b> ,	strength in heat-treated	assessment of an			
16:00	16:15	,	concrete: Chaturvedi, A,	existing highway bridge			
		М <u>Т, А,</u>	Gaikwad, M., Banjara, N.	under strong ground			
			Singh, S.	motion: <b>Ravi, R,</b>			
		SHM of RC bridge girder for	A framework for the non-	Mechanics-based state		Conference	SEG Seminar
		damage identification and	destructive evaluation of	estimation of girder	OPJ Auditorium		
16:15	16:30	localization using multi- layer perceptron:	galvanic cathodic	bridges using strain measurements:		Room	Room
		Ullegaddi, A, S C, M.,	protection in reinforced concrete structures:	Chathoth, N,			
		Mahmoodian, M.	Thalakkal, K.Pillai, R	Umakanthan, S.			
		Non-destructive testing of	,,,	A novel Bayesian-			
		masonry structures:		optimized Gaussian			
		techniques, applications,	Structural health	mixture model classifier			
		and future perspectives:	monitoring and	for weld damage			
		<u>Padalu, P,</u> Nanni, A.,	performance assessment	detection in steel portal			
16:30	16:45	Asteris, P., Brzev, S.	of a steel railway bridge	frames under limited			
		Asteris, F., Dizev, S.	with negative camber:	impedance-based			
			<u>Ghosh, A,</u> Dutta, A.,	experimental data:			
			Chakraborty, A.	Kamal, M,PARIDA, L,			
				Banerjee, S			
16:45	17:00		Tea Break			CED Lawn	
16:45	17:00	Keynote Sess	Tea Break ion-5 S. Suriya Prakash, II	T Hyderabad		CED Lawn OPJ Auditoriun	n
16:45 17:00	17:00 17:30	Keynote Sess		T Hyderabad			1
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		Keynote Se	ion-5 S. Suriya Prakash, II	IT Bombay		OPJ Auditoriun	m
17:00	17:30	Keynote Se	ion-5 S. Suriya Prakash, II ssion-6 Sauvik Banerjee, I Sessions: 7 to 9   Theme: R	IT Bombay		OPJ Auditoriun	m
17:00	17:30	Keynote Se  Technical Selection of ultra-	ion-5 S. Suriya Prakash, II ssion-6 Sauvik Banerjee, I Sessions: 7 to 9   Theme: Re Acid resistance and	IT Bombay epair Materials and Sus		OPJ Auditoriun	m
17:00	17:30	Keynote Se  Technical Se  Flexural behavior of ultra- high-performance-	ion-5 S. Suriya Prakash, II ssion-6 Sauvik Banerjee, I Sessions: 7 to 9   Theme: Re Acid resistance and environmental impact of	IT Bombay  epair Materials and Sus  Optimizing geopolymer		OPJ Auditoriun	m
17:00 17:30	17:30	Technical :  Flexural behavior of ultra- high-performance- concrete (UHPC) beams	ion-5 S. Suriya Prakash, II ssion-6 Sauvik Banerjee, I Sessions: 7 to 9   Theme: Re Acid resistance and environmental impact of lightweight geopolymer	epair Materials and Sus Optimizing geopolymer concrete performance		OPJ Auditoriun	m
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17:00 17:30 17:45	17:30 18:30 17:45	Technical state of the complete of the complet	ssion-6 Sauvik Banerjee, I  Sessions: 7 to 9   Theme: Re  Acid resistance and environmental impact of lightweight geopolymer and conventional concrete using sintered fly ash aggregate: Rawat, R, Pasla, D.  An experimental investigation and guidelines on reinforced concrete jacketing of short- span beams: Unni, V,K. Sengupta, A  Experimental study on the role of interface characteristics on the performance of concrete	Optimizing geopolymer concrete performance through sustainable valorization of copper slag: Deep, A  Damage characterization at fibermatrix interface in UHPC using wavelet entropy and frequency analysis of acoustic emission signals: Ahmed, M, Dutta, S.  Durability assurance of production-scale highperformance concrete using surface resistivity measurements:  Arunachalam, P	tainability in Stru	OPJ Auditoriun Conference Roo ctural Rehabilit Conference	m ation SEG Seminar
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# **DAY 1 | 11 December 2025**

18:30	19:30	of composite cement mortar: Singh, J., Nighot, N, Kumar, R.	structures: <b>Tewatia, D,</b>	strength characteristics of uhpc: <u>Kothari, V,</u> <b>Dave, U.</b>		Room  OPJ Auditorium  CED Lawn	Room
18:15	18:30	Effect of calcined red mud and calcined clay on physico-mechanical and microstructural properties	IRS 350CR stainless-steel core brb for strengthening existing RC frame	on the mechanical	OPJ Auditorium	Conference	SEG Seminar



### **DAY 2 | 12 December 2025**

	Day 2 - 12 December 2025								
	Tir	me		Event		Venue			
	9:30	10:15	Plenary Session-	-4 Venkatesh Kodur, Michiç	gan State University		OPJ Auditorium		
	10:15	11:00	Plenary Sessi	on-5 Bisvajit Bhattacharjee	OPJ Auditorium				
	11:00	11:15		Tea Break			CED Lawn		
	11:15	11:45	,	Keynote Session-7 Dipti Ranjan Sahoo, IIT Delhi					
			•	Keynote Session-8 Umberto Rico, Mapei					
	11:45	12:15		Keynote Session-9 Ananth Ramaswamy, IISC Bangalore			OPJ Auditorium		
-			Keynote Session-10 Rajeev Goel, Asian Paints				Conference Room		
	12:15	13:15		Technical Sessions: 10 to	12   Theme: Rehabilitation a	nd Retrofitting Te	chniques		
	12:15	12:30	Structural beam strengthening via NSM prestressed CFRP technique: <b>Dhariwal, S,</b> <b>Varma, R.</b>	Retrofitting structural masonry using natural fibre composites: performance, challenges, and prospects: <u>Vashisht, R.</u> Padalu, P., Kodur, V., Banthia, N.	Numerical investigation of effect of elevated temperatures on bending resistance of steel-concrete composite beams designed according to international codes:  Jamadar, A, Kadam, S.			SEG Seminar Room	
	12:30	12:45	Rehabilitation of existing baileys bridge: <u>Gupta, A</u> , <b>Ahuja, P., Saini, P., Sharma,</b> <b>A</b>	Microclimate at steel- concrete interface and its link with passivation of steel in low-carbon binder- based mortar: Ajayan, A., Kamde, D., Samson, G., Bertron, A.	Impacts of building rehabilitation by horizontal and vertical extensions of framed structures - risks and realities: Goswami, M., Rashid, U., Patel, R., Goswami, M.	OPJ Auditorium	Conference Room		
	12:45	13:00	Retrofitting of plan- irregular buildings with bracing and shear walls: <u>Kafi, M.</u> Nanda, R., Roy, P.	Numerical investigation of FRP thickness effects on the flexural performance of steel-concrete composite beams: <u>Devi, S, Kumar, P</u>	Effect of length and position of side externally bonded FRP sheets on the strengthening of RC beams using a progressive damage model: Karmakar R., Mandal, B.				
	13:00	13:15	Optimum zone for isolation and damping system in RCC regular and irregular buildings using Time-history method: Das, A., Bandyopadhyay, D.	Behaviour of RC beams retrofitted using rebar coupler and textile reinforced composite under flexural loading: Lal, M., Moka, V., R., S.	Enhancing shear strength of deficient concrete members: <u>Mitra, S.,</u> Tewatia, D., Singh, A.				
	13:15	14:00		Lunch			CED Lawn		
	14:00	14:45	Plenary Session-6	S Pang Sze Dai, National Uni	veristy of Singapore		OPJ Auditorium		
Ī			Keynote Ses	ssion-11 Mitsuo Ozawa, Gun	ma University		OPJ Auditorium		
	14:45	15:15	Keynote Session-12 Mango	esh V. Joshi, Sanrachana Stı Ltd.	ructural Strengthening Pvt.		Conference Room		
				to 15   Theme: Resilience in S	tructural Rehabil	itation			
	15:15	15:30	Conditional assessment of concrete specimens and structural element performance under elevated temperature exposure: <b>Banjara, N.,</b>	Experimental study on shear performance of hybrid fiber reinforced concrete R.C. deep beam.:  Javheri, S.Patil, S.,	Assessing the Effectiveness of GFRP Laminates for Retrofitting Plastic Fibre- Reinforced Geopolymer Beams: A GANNcrete and NSGA-II Multi-Objective	OPJ Auditorium	Conference	SEG Seminar Room	
			Kumbhoje, R.,	Kulkarni, S	Approach: Vinod M.R., G., P,				
			Ramancharla, P.		S.				

## **DAY 2 | 12 December 2025**

			A A A A A A A A A A A A A A A A A A A				
15:30	15:45	A methodology to find flexibility of members in steel truss railway bridges:  Lenka, K, Umakanthan, S.	A review of reflective coating technologies on asphalt pavements for urban heat island mitigation: Amarnath, AKumar, A., Choudhury, T.	Performance of embedded galvanic anoes in rehabilitation of corroded RC elements – a case study: <b>Rajendran, A</b> Mechanical	OPJ Auditorium	Conference Room	SEG Seminar Room
15:45	16:00	Seismic performance of buildings in hilly areas: role of soil-structure interaction:  Mazumdar, N, Kaushik, S	installation on non-ductile reinforced concrete structures: interaction effects and design considerations: <b>Deo, B.</b>	characterisation of adobe and masonry walls from high-altitude ladakh: <u>Kumar, S</u> ,Ranjan, R., Dixit,			
16:00	16:15	Analyzing the thermal comfort and carbon footprint of building blocks developed from air lime:  Tripathi, A, Yashwanth, L., V S, A., Manohar, S.	Field verification of the filtering algorithm to extract the bridge static load under fast-moving dynamic load: R, S, PARIDA, L.	Service life estimation of steel-cementitious system using powder based corrosion inhibiting admixture: <u>Aggarwal, S,</u> Pillai, R., Kunhi Mohamed, A.			
16:15	16:30		Tea Break			CED Lawn	
		Keynote S	Session-13 Yogendra Singh,	IIT Roorkee		OPJ Auditorium	1
16:30	17:00	Keynote Session-14 Utkar	sh Goyal, Structural Specia	lities & Projects (India) Pvt.			
			Ltd.		'	Conference Roor	n
17:00	18:00	Technic	cal Sessions: 16 to 17: Case	Studies in Structural Rehab	ilitation and Herit	age Conservatio	n
17:00	17:15	Seismic vulnerability assessment of irregular RC buildings using static pushover analysis: a case study: Islam, A., Phookan, A., Gogoi, D., Das, A., Bharadwaj K	Structural Safety Assessment of Historical Residential Building at Indian Veterinary Research Institute (IVRI), Bareilly, Uttar Pradesh, India: kumar, S, Kumar, V., Anand, V.				
17:15	17:30	Prospect and future of health assessment of residential building : a critical study on implementation point of view: <b>Swain, P., Datta, A.</b>	Structural condition assessment and repair strategies for industrial plant buildings affected by fire and blast incidents: a case study in maharashtra, India: Sharma, U,Chandra, S., Rai, A., Tiwari, A	ICI Special Session (Repair TC)	OPJ Auditorium	Conference Room	SEG Seminar Room
17:30	17:45	A study on the present scenario of structural audit of highway concrete road bridges: <b>Kumar Nag, R.,</b> <b>Datta, A.</b>	Non-contact based condition assessment of solar arrays: <u>Moondra, D,</u> <b>Rathi, A.</b>				
17:45	18:00	Seismic strengthening of RC hospital building: a case study: Mondal, A, Lalrinngheta, J., Borah, B.	Condition assessment of structures by ndt with probabilistic approach- a case study: <u>Kumar, R,</u> Bhargava, K., Rawlani, B., Choudhary, M.				
18:00	18:30		Sponsor presentation			OPJ Auditorium	1
19:30	22:00		GALA Dinner		Golden	Leaf, Delhi - Har	idwar Rd

### **DAY 3 | 13 December 2025**

			Day 3 - 13 December 2	025				
Tir	me		Event	.023		Venue		
		Keynote Ses	sion-15 Anil Agarwal, IIT Hyderabad		OPJ Auditorium			
10:00	10:30	Keynote Session-16 Li	ao Haixue, Vector Corrosion Technologies	Ltd.	Conference Room			
10:30	11:00	Keynote Sess	sion-17 R. Pradeep Kumar, CSIR-CBRI			OPJ Auditorium		
10.30	11.00	Keynote Sessi	on-18 Sanjay Chikermane, IIT Roorkee		Conference Room  CED Lawn			
11:00	11:15		Tea break					
11:15	11:45	,	ing Schwarz, CAS Composite Anode Systei			OPJ Auditorium		
		•	nt Pandey, Dynasoure Concrete Treatmen			onference Room		
11:45	12:45		Session: 21, 22   Theme: Case Studies, Polici	es in Structu	ral Rehabilitation and He	eritage Conservation		
		Study of durability properties of	Long-term durability of blended CO2 cured					
		alkali activated concrete made	systems under acidic exposure: <b>Bolla, M.,</b>					
11:45	12:00	with flyash-ggbfs blend: <b>Trivedi</b> ,	Dixit, A.					
		A, Goel, R., Kumar, R., Kumar, R.,						
		Singh, B						
		Health monitoring of structures	Investigation on the buckling response of					
		using finite element model	cfrp composite cylindrical shells					
12:00	12:15	updating technique: Pal, J.,	incorporating spla imperfections: <b><u>Pradhan</u></b> ,					
		Chowdhury, R Saurabh, S.,	<u>T.,</u> Podder, D., Iqbal, M., Singh, I.					
		E. T		0	PJ Auditorium	Conference Room		
		Failure analysis of hollow steel	A comprehensive evaluation of concrete					
12:15	12:30	parking columns and bollards	constitutive models using single-element					
		,	simulations: <b>Kumar, A., Iqbal, M.</b>					
		<u>N.</u> ,Gupta, P.						
		Characterization of dynamical	Mechanical performance of Corroded IRS-					
		systems with multiple breathing	450CR in chloride rich environment:					
12:30	12:45	cracks using time-frequency	<u>Sharma A.,</u> G.P. Chaudhary					
	.2. 10	analysis: <u>Revuru, S</u> , Dheeraj						
		reddy, V., Praveen, S., B, R.						
12:45	13:30	Valed	ctory and Closing Ceremony			OPJ Auditorium		
	14:30	Lunch			CED Lawn			

