



Indian Concrete Institute

Two days interactive workshop on **REPAIR, RETROFITTING & REHABILITATION OF STRUCTURES**

Buildings, Bridges & other Structures

on 12th and 13th July 2024

- ✉ indconhq@gmail.com
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Programme Venue:
ACCORD Metropolitan
 35, G.N. Chetty Road, T.Nagar,
 Chennai-600 017



location map



PANEL OF EXPERTS



Er. Vinay Gupta, Civil Engineer from BITS, Pilani(1983) and Director & CEO, M/S. Tandon Consultants Pvt. Ltd., specializes in Bridges, Flyovers, Underground & Elevated Metro Structures, Tall Chimneys, etc. Active member of various Code Committees of BIS and IRC. Er.Vinay Gupta is all India President of IIBE & Past President of ICI. He is also Vice-President of ACF (Asian Concrete Federation) and IAStructE (Indian Association of Structural Engineers).



Dr. K. Balasubramanian took his BE in Civil Engineering in 1981 and ME in Structural Engineering in 1983 from College of Engineering Guindy, Chennai. He took his Ph.D. from Annamalai University. He joined Structural Engineering Research Centre (CSIR-SERC), Chennai in 1983 as a Scientist. He rose to the position of Deputy Director and took voluntary retirement in June 2008 from SERC. At present, he is the Managing Director of Hitech Concrete Solutions Chennai Pvt. Ltd, an NABL accredited Laboratory. He also heads an IIT Madras incubated company 'Concrete Quality Concepts Pvt. Limited' along with Dr. Manu Santhanam, Professor, IIT, Madras. His areas of research include Concrete Technology, Non- Destructive testing of RC structures and Repair and Rehabilitation of RC structures. He has published over 100 papers and 1500 technical reports.



Prof. Subhajit Saraswati is a professor in Construction Engineering Department, Jadavpur University, Kolkata. He obtained Ph.D. from Jadavpur University. He acquired advanced training on High Performance Concrete from Advanced Centre for Building and Materials, North Western University, USA. Prior to joining teaching, he served Gammon India and Stup Consultants in his professional career. He is Past President of Indian Concrete Institute and Past Vice-President(Policy) of Asian Concrete Federation. He is at present Chairman of ICI Technical Committee on "Repair and Rehabilitation of Structures". He has published a book on "Construction Technology" and has published around 30 papers in reputed journals and international conferences. He was the co-investigator of the project titled "High Performance Concrete with blended Cements" sponsored by BRNS, Govt. of India.



Mr. Seshadri S. is servicing Construction Chemical Industry in India and Asia Pacific region for 40 years. He provided an effective and cost economical repair solution to leaking Power Tunnel of Kodayar Dam in 1990 and contributed towards establishing proper grouting practices for machines in power plants, cement plants, petrochemical plants, etc. He designed a successful crack investigation methods and repair solution for the world's largest dam-The Three Gorges Dam in China, in 2000 and designed tailored waterproofing system solutions to many different types of structures that have been performing effectively. He also designed and conducted scores of well received training programmes both for company staff and for organisations in construction industry, on concrete repairs and protection, waterproofing, grouting, etc.



Mr. Sumeet Billimoria, CEO & Managing Director, DB EXIM Vadodara, first time Entrepreneur bringing innovative products representing in India, ThermaCote-USA, Liquid Rubber-Canada and Resimac-UK. He is a Consultant for developing and sourcing construction chemicals for overseas and Indian clients. He Undertakes Concrete protection Projects to protect from high temperatures, harsh chemicals like HCl and Sulphuric Acid, Condensation, Anti-Carbonation, Corrosion from Humid Environment, and Sea Jetties Pile grouting.



Dr. K. Ilamparuthi did his M.E. in Soil Mechanics and Foundation Engineering from College of Engineering Guindy in 1982 and did his Doctorate from IIT Madras, 1991. Thereafter, he did his PDF from University of Liverpool, UK in 2000. He has got 40 years of experience in the field of teaching, research, consultancy and industrial experience. He has published more than 200 papers in national and international journals and conferences. He is the co-editor of the book "Geotechnical Design and Practice-Selected Topics". He offers consultancy services related to foundation for structures, retention system, slope stability works, and harbour structures. He is also a Senior Project Advisor for IIT Madras. He has won several awards that includes IGS – YGE Best Paper Biennial Award, Active Consultant Award for the year 2015 by Anna University, Best Consultant Award by TNSCB, Commonwealth fellow (Geotechnical Engineering) by University of Liverpool, UK and has won numerous Best Paper Awards.

WHAT IS UNIQUE ABOUT THE PROGRAMME?

- **Practice-oriented programme**
- **Industry Experts share their experience**
- **Programme encompasses all essential aspects of Repair, Retrofitting & Rehabilitation of structures**
- **latest on materials and processes shared**

PANEL OF EXPERTS



Dr. Gopal Rai graduated from IIT Bombay with Ph.D. in Structural Engineering. He has published over 50 high-quality research papers and has participated in more than 400 national and international conferences. He started his entrepreneurial journey in 2010 when he incorporated a specialized engineering and consulting venture Direndra Group of Companies (DGC) that provides a turn-key solution to the industry for structural auditing, retrofitting and monitoring. He has won multiple prestigious awards such as The Manufacturing Innovative Leaders at World Innovation Congress, Leading Structural Rehabilitation Company by ICONS (Singapore), Vishwakarma Award by CIDC, International Quality Crown Award and Best Enterprise Award in London and Government of India - Process Innovator Award.



Er. Kaizad, Technical Director, Ushta Infinity Construction Co. Pvt., Ltd. spearheaded Remedial Engineering projects for over 175 companies in India & abroad. Completed more than 2000 projects. Tied up with Westox, Australia & Liquid Rubber Canada in 2017 to add to the service portfolio. Channel partnered with Reliance Industries Limited & Dow Aska for Fibre composite segment startups for investing. Technical Advisor to the Shiromani Gurudwara Prabandhak Committee, Amritsar for restoration of Golden Temple complex. Member of Repair & Retrofitting Technical Committee at the Indian Concrete Institute. Has published 40 Technical Papers at various National and International Symposia and has conducted more than 300 Training Programs for Students, Professionals, nationally and internationally. Recipient of The Indian Building Congress Award for Excellence in Built Environment, Under the Category of Rehabilitation / Retrofitting of Buildings in disaster prone area in 2004.



Er. Kamalesh Warriar, seasoned Business Professional with a total experience of over 22 years in the field of construction materials, with precedence of successfully developing business from scratch to sizeable value in multiple regions. Currently, as the Lead of Carbon Composites for Infra Segment in Reliance Industries Ltd, spear-heading the efforts in shifting the market from conventional to advanced solutions for making the structures durable & sustainable with an aim to reduce the carbon footprint of Construction Industry.



Er. Vijay Kulkarni is a Structural Engineer with M.Tech in Structural Engineering having over 20 years of diversified experience in various fields of Civil Engineering. He has special interest in research and development activities and has guided many graduate and post graduate students on many new projects. Mr. Vijay has contributed to the drafting of BIS codes. His areas of interest include repairs and rehabilitation of RCC structures, including testing and analysis. He is currently Segment Head- Grouts & Anchors, Adhesives, Repairs & Protective coatings at Fosroc India.



Dr. V. Rajendran completed his B.E. in Civil Engineering at the College of Engineering, Guindy and his Ph.D. in Corrosion Mitigation in the Repair & Rehabilitation of RC Structures at Anna University, Chennai. He has over 30 years of experience in Repair & Rehabilitation of RC Marine Structures in India and abroad. The Association of Consulting Civil Engineers (I) honoured him as an Eminent Engineer. He has authored more than 250 Consultancy Projects in condition assessment of concrete structures and has experience in Non-Destructive Testing, including the recommendation of repair methodology & preparation of bill of quantity. He is the Director of Hitech Concrete Solutions Chennai Pvt Ltd., a NABL accredited laboratory and Concrete Quality Concepts Pvt Ltd., an IITM incubated company.



Dr. S. Prasanth, graduated Masters in Structural Engineering from Vellore Institute of Technology, Vellore and his Doctoral Research in Seismic Resilience Assessment for Buildings at Motilal Nehru National Institute of Technology, Allahabad. Before pursuing his research, he worked at various industries like L&T Infrastructure, STUP Consultants etc., as a trainee design engineer. During that period, he was involved in various projects related to design of Metro Station buildings, high-rise residential buildings, Marriage halls, Institutional buildings etc. He has published various research articles related to seismic resilience assessment of various structures in SCI/Scopus indexed journals, conferences and book chapters. His current research focuses on seismic resilience and risk assessment of buildings at community level. At present, he is working as Senior Assistant Professor at Centre for Disaster Mitigation and Management (CDMM), Vellore Institute of Technology (VIT), Vellore.

PANEL OF EXPERTS



Er. Zacharia George was a Senior Principal Scientist at CSIR SERC for nearly 30 yrs. After that, he joined the 100-year-old consulting firm of Architects and Engineers "Pithavadian and Partners" as Senior Partner and continues to be an active as a Consulting Structural Engineer. As Engineer Scientist he invented/patented seven products/processes widely used in Indian construction. This includes TISCON reinforcing bars, braced domes and prestressed ceramics. He was educated/trained in the best of engineering institution in India, UK, USA and Australia. He authored over 200 technical papers in journals all over the world. He also taught at higher institutes of engineering in India. He has been Technical Consultant / Structural Engineer for construction of over 25 churches including 7 cathedrals across India. He holds a title "Pro-Ecclesia et Pontifice" granted by H.H. the Pope. His contributions have led to grant of several national and international Awards. His consultancy work runs across concrete and steel structures all over India, starting with fire damaged structures. He was consultant to repairs and retrofitting of structures from settlement and corrosion and strengthening of existing structures. He served as a UNDP experts and fellow in the seventies.



Mr. Manish Bharti is a structural and diagnosis consultant since 2006 and a member of ACI. He is currently CEO of Cortex Construction Solutions Pvt. Ltd. His primary research interest lies in understanding the behaviour of structure, material characterization, development of diagnosis systems for all kinds of old structures and designing suitable repair and rehabilitation techniques. He has been involved in wide range of consultancy job for rehabilitation projects (more than thousand structures) from Industrial buildings, bridges to heritage buildings. He has done the structural audit for prestigious structures from 2006 like Writers Building Kolkata, Jaisalmer Fort, Chattar Manzil, Lucknow; Red fort Barrack building, Ganga Temple, Sabarmati Ashram, and IIT Roorkee campus buildings. His service encompasses Structural Stability Certification for Industrial Buildings, Load rating of bridges, Upgradation and Residual life of heritage bridges for Railways & Safety and stability Certification. He has a patent for "Aqua Penetracao water permeability tester equipment" as per DIN1048 part5. He has developed a Mobile APP for Disaster Evaluation for NDMA & NHRCL. He has published a book on "Survival of Kedarnath Temple: - Through the eye of Structural consultant"

WHO SHOULD ATTEND?

- Practitioners from Construction Industry
- Site Engineers
- Consultants
- Applicators
- Research Scholars & PG Students

COURSE FEE DETAILS

Category	Course Fee + Temporary Membership fee (INR)	GST 18%	Total (INR)
ICI Members	5000	900	5900/-
ICI-Non Members	6000 + 750	1215	7965/-
ICI Student Members	2500	450	2950/-
Students	3000 + 500	630	4130/-

DAY 1 Programme Schedule

S.No.	Time	Topics	Speakers
1.	09:30 – 10:15	Need of Repair, Retrofitting and Rehabilitation in Indian Context	Er. Vinay Gupta vinayash88@gmail.com
2.	10:15 – 11:00	Issues related to Repair, Rehabilitation and Retrofitting of Structures	Prof S Saraswati subhajitsaraswati21@gmail.com
3.	11:00 – 11:30	Tea Break	
4.	11:30 – 12:15	Current Concrete NDT Practices and Case Studies	Dr. K. Balasubramanian kbs@hitechconcrete.net
5.	12:15 – 13:00	Materials for Repair and Strengthening	Er. Vijay Kulkarni Vijay.Kulkarni@fosroc.com
6.	13:00 – 14:00	Lunch Break	
7.	14:00 – 14:45	Strengthening Technique for Building Structural Elements	Mr. Manish Bharti manishbharti.dce@gmail.com
8.	14:45 – 15:30	CFRP – System for Reliable Infrastructure	Er. Kamalesh Warriar Kamalesh.warrier@ril.com
9.	15:30 – 16:00	Tea Break	
10.	16:00 – 16:45	Evaluation of causes for instability of buildings by forensic approach and remedial measures	Dr. K. Ilamparuthi kanniilam@gmail.com
11.	16:45 – 17:30	An eye-opening case of Investigation of a dam	Mr. S. Seshadri ccsessess@gmail.com



DAY 2 Programme Schedule

S.No.	Time	Topics	Speakers
1.	09:30–10:15	Refurbishment of Heritage Buildings – Case Studies 1	Mr. Kaizad mgmt@ushtaindia.com
2.	10:15–11:00	Seismic Disaster Mitigation Techniques	Dr. S. Prasanth prasanth.s@vit.ac.in
3.	11:00–11.30	Tea Break	
4.	11:30–12:15	Sustainable Technology for Protection of Heritage and Modern Structures – Case Studies 2	Mr. Sumeet Billimoria inquiry@dbexim.co.in
5.	12:15–13:00	Repair and Rehabilitation –Case Studies 3	Dr. V. Rajendran drvrajendran1965@gmail.com
7.	13:00–14:00	Lunch Break	
8.	14:00–14:45	Rehabilitation in new era with Advance Material and Technology – Case Studies 4	Dr. Gopal Rai raigopal@gmail.com
9.	14:45–15:30	Reconditioning & Retrofitting –Case Studies 5	Er. Zacharia George zachariafie2016@gmail.com
10.	15:30–16:00	Tea Break	
11.	16:00–16:30	Feedback & Concluding session	

Please click the link below to register

<http://www.indianconcreteinstitute.org/workshop-registration-form/>

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