

2nd
Flyer

Organised by
India Chapter of
American Concrete
Institute



Co-Sponsored by



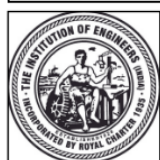
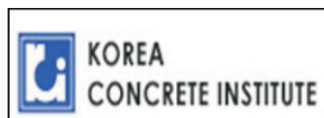
4th R. N. Raikar Memorial International Conference & Ghosh-Mukherjee International Symposium on ADVANCES IN SCIENCE & TECHNOLOGY OF CONCRETE

12th, 13th & 14th December 2024, The Lalit, Mumbai



INDIA CHAPTER OF AMERICAN CONCRETE INSTITUTE
2-3, Nagree Terraces, Soonawala Agiary Road, Mahim (W), Mumbai 400 016, India.
Phone: +91 22 2446 9175 / 3523 0065 / Email: infoicaci@gmail.com / Website: www.icaci.com
www.rnrconf4icaci.com/

Supporting Organisations



Media Partners





Late Mr. R. N. Raikar

India Chapter of American Concrete Institute (IC-ACI), since its inception in 1979, has catapulted into a national body for concrete excellence due to untiring efforts of late Mr. R.N. Raikar. IC-ACI has been honoured with 'Excellent Chapter Award' from our parent body ACI consecutively for the last 21 years – a feat it continues to achieve to date.

ACI, in its centennial year, conferred on him the highest individual honour of being an 'Honorary Member' of the Institute in recognition of his service to the concrete industry. As a tribute to his legacy, the R. N. Raikar conference series aims to salute global concrete icons of Indian origin.

INVITATION

India Chapter of American Concrete Institute cordially invites you to 4th R. N. Raikar Memorial International Conference & Ghosh-Mukherjee International Symposium on ADVANCES IN SCIENCE & TECHNOLOGY OF CONCRETE on 12th, 13th, and 14th December 2024 in Mumbai.

It would be a technical extravaganza with something for everyone - architects, consultants, contractors, material scientists, manufacturers and suppliers, researchers, technocrats, and academia from all across the globe. See you at the conference...

'Incredible India' is a unique tourist destination, and the weather in December is going to be just perfect throughout India.

Conference Honorees: Ghosh-Mukherjee International Symposium



Dr. S. K. Ghosh

Dr. S. K. Ghosh heads the consulting practice, S. K. Ghosh Associates LLC, Palatine, Illinois, now a subsidiary of the International Code Council. Dr. Ghosh is active on many national technical committees, is an Honorary Member of ACI, and is a Fellow of ASCE, SEI, and PCI. He is a member of ACI Committee 318, Standard Building Code, and the ASCE 7 Standard Committee (Minimum Design Loads for Buildings and Other Structures). He is a former member of the Boards of Direction of ACI, the Earthquake Engineering Research Institute, and the Building Seismic Safety Council. He is a member of the Board of Governors of ASCE's Structural Engineering Institute. Dr. Ghosh has influenced seismic design provisions in the United States for many years. In addition to authoring many publications in the area of structural design, Dr. Ghosh has investigated and reported on structural performance in the most recent earthquakes. He is currently leading a World Bank project on building code enforcement in Dhaka, Bangladesh.



Prof. Abhijit Mukherjee

Prof. Abhijit Mukherjee is a Civil Engineer, researcher and educator. Prof. Mukherjee is Dean at Curtin University, Australia. He has taught structural mechanics, structural design, structural stability, and finite element analysis courses. His industrial consultations are on structural assessment, structural rehabilitation, and new structural materials. He loves to work on the rehabilitation of heritage structures. His research is on sustainable engineering practices. He approaches sustainable practices from three directions - the development of new sustainable materials, monitoring the health of existing infrastructure and extending the life of infrastructure through rehabilitation and retrofitting.

MESSAGE: ACI INCOMING PRESIDENT: Michael J. Paul (2024-2025)



Mr. Michael J. Paul

The Institute is pleased to join the India Chapter – ACI for the 4th R N Raikar Memorial International Conference - Advances in Science & Technology of Concrete. As the next president of ACI, I welcome the opportunity to inaugurate the conference proceedings and address leaders in all facets of concrete construction.

As one of the preeminent knowledge-sharing events in the South Asia region, the international conference will feature a wide array of technical presentations on timely topics in the concrete industry, plus student competitions and a variety of networking opportunities.

As a leading global authority dedicated to the best use of concrete, ACI has been delivering concrete knowledge for more than a century, and the R N Raikar Memorial International Conference is another example of how ACI members keep the Institute Always Advancing.



Dr. Surendra Manjrekar
CHAIR - CONFERENCE

Dr. Surendra Manjrekar is Chairman and Managing Director of Sunanda Specialty Coatings Pvt. Ltd. and is an 'Honorary Member' of the American Concrete Institute (2018) and 'Honorary Fellow' of the Institute of Concrete Technology (ICT), UK (2022).

Construction Industry Development Council (CIDC) India honoured him with the "Industry Doyen Award" (2017). He was three times "President of the India Chapter of ACI" and is "Principal Convener of ACI Certification in India" (2008 – present).

Dr. Manjrekar is a Vice Chancellor appointee on the "Internal Quality Assurance Cell" of Dr. Homi Bhabha State University, Mumbai, as an Industry representative. He is a Special Signatory to the MOU for technical co-operation between India, Singapore, Vietnam, and Malaysia organized by ACI in Singapore (2019). He is active in concurrent R&D work in the fields of Corrosion Prevention in RCC/PSC structures with special emphasis on infrastructure, 3rd Generation Corrosion Inhibiting Admixtures, Internal Curing, Repairs of Dams, Bridges, Irrigation Canals, water-related structures, Polymers, Underwater Concreting, CO2 sequestration in polymers, Nano molecule Soil Stabilization, Waterproofing, Anti-freezing Admixtures in Concrete.



Mr. Chetan R. Raikar
CONVENER - CONFERENCE

Mr. Chetan Raikar is Chairman & Managing Director of Structwel Designers & Consultants Pvt. Ltd, an engineering consultancy of 50 years of glorious standing; apart from being on panels of many international and national forums and institutions, is a professional Structural Engineer with a B. E. in Civil Engineering from Sardar Patel University, Gujarat, and a Master's degree of Science in Conservation of Heritage structure from Herriot – Watt University, Edinburgh, United Kingdom. Chetan has to his credit many awards from several prestigious organizations and Govt. of Maharashtra. Some of them are the Young member award for professional achievement in 1999 by ACI, the Excellence vocational award by Rotary International District in 2009, and the 'Maharashtra cha Kohinoor' award in March 2013 from Govt. of Maharashtra, ACI Chapter Activities Awards in 2018 and 'Industry Captain Award' in 2018 instituted by CIDC (Construction Industry Development Council), Govt. of India.

Chetan is the Lead Auditor and Technical Auditor for the National Accreditation Board of Laboratories, Quality Council of India, in accordance with ISO/IEC 17025. He is also an ISO 9001-2008 Lead Assessor and an Accredited Mediator certified by the Indian Institute of Arbitrators & Mediators

Topics for Conference

Novel Cements and Advanced Materials

- Advances in science and technology of cement, admixtures, and concrete
- Advances in materials concept and tailored material properties
- Energy efficient process and materials
- Fibre reinforced concrete
- Green concrete
- Heavy density concrete
- Hot weather / cold weather concreting
- Nano technology
- New cements such as LC3
- Other related developments
- Permeable concrete
- Phase change materials (PCM)
- Recycled Concrete Aggregates & Concrete
- Self consolidating/ compacting concrete
- Ultra high performance concrete
- Underwater concrete

Performance in Service, Prediction of Service

- Durability of concrete
- Improved performance of shrinkage cracking
- Innovative solutions for corrosion prevention of rebars
- Service life and life cycle analysis
- Smart materials
- Structural health monitoring
- Sustainability of concrete
- Transport properties of concrete

Fire

- Characterisation of fire, blast and impact loading on structures Behaviour of structural materials at high temperatures
- Design of structures for improved resilience
- Design of Bridges for Fire & Blast Resistance
- Effects of Fire & Blast on Facades & Glass Assemblies
- Effects of Fire and Blast on Steel connections
- Strengthening, retrofit and repair

Earth-based Materials

- Advances in structural and civil engineering applications
- Concrete construction & maintenance of structures in different fields of infrastructure, such as: -Aviation, Structures - Railways / Metros, Ports, Harbours and Nuclear Plants
- Dismantling of structures
- Innovative and cost effective fire resistant solutions
- Innovative therapies & Practices in structural designs
- Quality control related to concrete structures
- Research and current developments
- Seismic retrofitting
- Structural Steel Quality control related to concrete structures

Characterization, Testing and Monitoring Materials and their Properties and Associated Modeling

- Advanced models from nano to macro scale
- Advances in software
- Advances in testing of material properties
- Advances in material modeling, fresh state to early age to fracture and damage mechanics
- Experimental analysis of concrete structures
- Monitoring concrete properties during construction
- Multi-scale modeling
- Non-destructive testing
- Sensors

Precast & Pre-Stressed Concrete:

- Connections in Precast Jointed Systems
- Fast Track Precast Construction
- Precast Concrete Technology
- Precast Concrete Tunnel Segments
- Precast Pavements
- Prestressed Concrete

Other Topics

- 3D printing
- Aggregates
- Alternative cement
- Asphalt and bituminous materials
- ASR
- Bacterial processes
- Bio-based materials
- Carbonation
- Carbon-based nanomaterials
- Cement chemistry
- Coating materials
- Composite and hybrid structures
- Concrete in fire
- Creep and Shrinkage
- Curing of concrete
- Deterioration mechanisms
- Design
- Deleterious ions
- Durability
- Sustainable materials
- Early age properties of concrete
- Explosion
- Fibers
- Fracture
- Hydration and micro structure development
- Admixtures
- Impact
- Masonry
- Materials processing
- Natural stone
- NORMs
- Nuclear concretes
- Numerical Modeling
- Polymers
- Prestressed concrete
- Protection and renovation of heritage structures Freeze-Thaw
- Recycle aggregate
- Rheology of concrete
- SAPs / Internal curing
- Self-healing asphalt
- Self-healing concrete
- Soil Materials
- Special Construction Materials and Components Bitumen/Asphalt
- Structural aspects
- Sustainable materials
- Textile reinforced concrete
- Timber
- Transport properties
- Waste materials

IMPORTANT DATES AND DEADLINES

- Last date for abstract submission: **30th April 2024**
- Review of the abstract by Scientific Committee: **15th May 2024**
- Last date for paper submission: **15th July 2024**
- Review of paper by Scientific Committee: **15th September 2024**

**Last date for final paper submission
15th October 2024**

Delegate Fees

Indian Delegates Before 1st October 2024: INR 12,000 + 18% GST
After 1st October 2024: INR 13,500 + 18% GST

International Delegates Before 1st October 2024: USD 500 (Including Taxes)
After 1st October 2024: USD 625 (Including Taxes)

Discount on delegates fees

- 25% discount - Main Authors
- 10% discount - Members of ICACI / Supporting Orgs
- 50% discount - Students
- 60% discount - ICACI Student Members

- **Authors/presenters need to pre-register**
- **Conference fee includes a delegate kit, conference document, lunch and tea/coffee on all days**

PARTNERSHIP OPPORTUNITIES (TAXES ADDITIONAL AS APPLICABLE)

FEATURES / CATEGORIES	SOLITAIRE	PLATINUM	DIAMOND	GOLD	SILVER	KIT	LUNCH / DINNER
Amount (INR)	25 Lacs	10 Lacs	7.5 Lacs	5 Lacs	2.5 Lacs	1 Lac	5 Lacs
Complimentary Delegates	15	10	7	5	3	1	5
Presentation Slots	15 Mins	10 Mins	5 Mins	5 Mins	5 Mins	-	5 Mins

ADVERTISEMENTS: ALL VOLUMES CONFERENCE PROCEEDINGS

Features/Categories	INR (Total)	USD (Total)	Entitlements
Back Cover	1.5 Lacs	3000	One Full Page Advertisement in the Volume of conference proceedings with brand exposure by way of complimentary advertisement in IC-ACI Quarterly and logo presence on conference website with link to your Website
Front Inside Cover	1 Lac	2500	
Back Inside Cover	1 Lac	2500	
First 4 & Last 4 Pages	70000	1750	
Inside Pages	60000	1500	One Full Page Advertisement in the Volume of conference proceedings

EXHIBITION STALL (Taxes addition as applicable): Charges per stall

Size of Stalls	INDIAN (INR)	FOREIGN (USD)
3M X 2M (6sqm)	90000	2000

Mode of Payment

By cheque or demand draft payable at Mumbai in favour of "India Chapter of ACI".

For electronic transfer IFSC Code : IDIB000M008.

SB A / C : 000000419657905 SWIFT : IDIBINBBFT

Bank Name : Indian Bank, Mahim Branch, Mumbai 400 016.

Bank Address : 1, 1A Raj Mahal CHS., Plot No. 542, MMC Road, Mahim (West), Mumbai 400 016.

Online Registration can be done at www.icaci.com

International Organising Committee (IOC) / Scientific Committee

Prof. Rishi Gupta, Canada
Prof. Ing Bohumil Kasal, Germany
Prof. Sudharshan N. Raman, Malaysia
Prof. Alejandro Durán Herrera, Mexico
Prof. Nishant Garg, USA
Prof. V.M. Malhotra, Canada
Prof. Giorgio Ferrari, Italy
Prof. Pericles C. Stivaros, New York
Prof. Ashok Kakade, USA
Prof. P.A.M. Basheer, UK
Prof. Kazunori Fujikake, Japan
Prof. Thaung Htut Aung, Thailand
Prof. Aleena Alex, UK
Prof. Pedro Borges, Mexico

Prof. Gaurav Sant, USA
Prof. Nilüfer Özyurt Zihnioglu, Turkey
Prof. Liberato Ferrara, Italy
Prof. Sokhwan Choi, Korea
Prof. Raquib Ahsan, Bangladesh
Prof. Narayanan Neithalath, USA
Prof. Johann Plank, Germany
Prof. Naser Kabashi, Kosovo
Prof. Deepak K. Kamde, France
Prof. Rajan Suwal, Nepal
Prof. Pengkun Hou, China
Prof. Moza AL Salim, Oman
Prof. Prasad Rangaraju, USA
Prof. Harald Justnes, Norway

Dr. Didar Cheema, Australia
Prof. Nancy Soliman, Mexico
Dr. Ahmad Abdelrazaq, USA

National Organising Committee (NOC)

Dr. S. K. Manjrekar, Chair
Mr. Chetan R. Raikar, Convener
Mr. Sourabh Manjrekar, President, IC-ACI
Dr. Vishal Thombare, Vice President, IC-ACI
Dr. Yogini Deshpande, Hon. Secretary, IC-ACI
Mr. Sunny Surlaker, Imm. Past President, IC-ACI
Mr. Pankaj Shah, Past President, IC-ACI
Dr. Raghuvir Salkar, Past President, IC-ACI
Ms. Radhika Markan, Past President, IC-ACI
Mr. Mohan A. Jacob, Past President, IC-ACI
Mr. Satish C. Dhupelia, Past President, IC-ACI
Mr. Umesh Magar, Director, IC-ACI,
Dr. Prof. V. B. Vanvari, Director, IC-ACI
Ms. Ishita Manjrekar, Director, IC-ACI
Mr. Suhas Barve, Director, IC-ACI
Mr. Amit Barde, Director, IC-ACI
Dr. Shishir Bansal, Director, IC-ACI
Dr. Chetan Patil, Director, IC-ACI
Dr. G. S. Rampradheep, Director, IC-ACI
Dr. A. K. Tiwari
Mr Alok Bhowmick
Mr. Amish Bisane
Mr. Anil Kumar Sharma
Mr. Ashwin Moghe

Mr. B. A. Madhukar
Mr. Debashish Guha
Mr. Girish David
Mr. J. K. Kulkarni
Mr. Prakash Chavan
Mr. J. V. Patgaonkar
Mr. Jayant Kulkarni
Mr. Kamal Hadkar
Mr. Kaustubh Raikar
Mr. Mahesh Mudda
Prof. Mahesh Tandan
Mr. Manoj Kavalkar
Mr. Mukul Parikh
Mr. Muninder Seeru
Dr. N. Ramprakash
Mr. N. V. Kudale
Mr. Nilotpal Kar
Mr. Nitin Kanvinde
Dr. P. R. Swarup
Mr. Pankish Goel
Mr. R. K. Gupta
Mr. Upen Patel
Mr. V. B. Gadgil
Dr. VVL Kanta Rao
Dr. Abdul Aleem M. I.

Mr. V. N. Heggade
Dr. Piyush Chaunsali
Dr. Saroj Mandal
Mr. Anurag Sinha
Prof. Shweta Goyal
Prof. Ravindra Gettu
Mr. Vinay Gupta
Dr. Banti A. Gedam
Mr. Mainak Ghosal
Mr. Rajan Kataria
Dr. Ramchandran
Dr. Ravi Sinha
Mr. S. S. Chaudhari
Mr. S. S. Kutumbale
Mr. Samir Surlaker
Ms. Sangita Wij
Mr. Sanjay Pant
Prof. Manu Santhanam
Mr. Shrinivas Kutumbale
Mr. Sarvagya Srivastava
Dr. Shashank Mehendale
Prof. Radhakrishna G Pillai
Prof. Kolluru V. L. Subramaniam
Dr. Siddhartha Bhattacharya

List of Confirmed Speakers



Dr. Aleena Alex
UK

Topic: Self-healing and carbonation in concrete



Prof. Nishant Garg
USA

Topic: Evolution of kaolinite morphology upon exfoliation and dissolution: Evidence for nanoscale layer thinning in metakaolin



Prof. Ing Bohumil Kasal,
Germany

Topic: Adhesive wood-concrete problematic



Dr. Didar Singh Cheema
Australia

Topic: Delithiated β -Spodumene Of Lithium Mineral Extracting Process, A Potential Supplementary Cementitious Material For Geopolymer & Conventional Concrete Applications With Reduced Co2 Footprint



Dr. Ahmad Abdelrazaq
USA

Topic: Design and Construction of Merdeka 118 Tower using High Performance Concrete: Pushing the Boundaries of Concrete Technology for Megatall Building



Prof. Nilüfer Zihnioglu
Turkey

Topic: The Fresh State Properties of Seawater Mixed Calcium Aluminate Cement

List of Confirmed Speakers



Prof. Deepak K. Kamde
France

Topic: Corrosion characteristics of steel-concrete interface with low-carbon binders.



Prof. Kazunori Fujikake
Japan

Topic: Fundamental study on crumb rubber mortars as shock-absorbing materials.



Prof. Giorgio Ferrari
Italy

Topic: Low Carbon Concrete Admixtures. A New Class Of Products For Concrete Net Zero 2050 Scenario



Prof. Thaug Htut Aung
Thailand

Topic: Application of Resilience-based Design Approach in the Structural Design of Tall Buildings



Prof. Harald Justnes
Norway

Topic: Aluminium reinforced concrete in a resource utilization and recycling perspective



Prof. Dr. Johann Plank
Germany

Topic: Decarbonization Strategies for the Global Cement and Concrete Industry



Prof. Raquib Ahsan
Bangladesh

Topic: Wavelet-Based Identification of Effective Prestress of a Damaged Prestressed Concrete Girder.



Prof. Naser Kabashi
Kosovo

Topic: Replacement Of Fine Aggregate And Cement With Stone Dust And Influence In Properties Of Concrete



Prof. Liberato Ferrara
Italy

Topic: A holistic approach to sustainability of concrete: upgrading the perspective from material to structural design and life cycle assessment



Prof Gaurav Sant
USA

Topic: Title to be communicated



Prof. Narayanan Neithalath
USA

Topic: Title to be communicated



Dr. Rishi Gupta
Topic: Title to be communicated



Prof. Ashok Kakade
USA

Topic: Title to be communicated



Prof. Pericles C. Stivaros
New York

Topic: Title to be communicated



Prof. Sudharshan N. Raman
Malaysia

Topic: Title to be communicated



Prof. Pedro Borges
Mexico

Topic: Title to be communicated



Prof. Pengkun Hou
China

Topic: Title to be communicated



Prof. Alejandro Durán Herrera
Mexico

Topic: Title to be communicated



Prof. Mohan Malhotra
Canada

Topic: To be communicated



Prof. Prasad Rangaraju
USA

Topic: Title to be communicated



Dr. Ahmed Khalfan Said Al Washahi

Topic: Total Replacement of Cement with Fly Ash and GGBS in Mortar Mix



Prof. Nancy Soliman
Mexico

Topic: Title to be communicated



Dr. Sook Fun Wong
China

Topic: Title to be communicated

REGISTRATION FORM

(Photocopy if necessary)

4TH R. N. RAIKAR MEMORIAL INTERNATIONAL CONFERENCE

&

**Ghosh – Mukherjee International Symposium on
Advances in Science & Technology of Concrete**

Dates: 12th, 13th, & 14th December 2024,

Venue: The Lalit Mumbai.

Delegate Name: (Dr. / Ms. / Mr.)

Address:.....

.....

Mobile No: Email ID:

ACI India Chapter Membership No:

Student (Name of Institution ID Card No.:

Payment Details: -

Cheque / DD No..... for Rs..... Dated.....

Drawn on Bank Branch.

Favouring “India Chapter of ACI” payable in Mumbai.

Online bank details:

Indian Bank, 1, 1A Raj Mahal CHS., Plot No.542, MMC Road, Mahim (West), Mumbai: 400 016.

SB A/c. No. 000000419657905 **IFSC Code:** IDIB000M008 **SWIFT:** IDIBINBBBFT **PAN:** AAATM5311J

Date

Signature