



World Federation of Engineering Organizations  
Fédération Mondiale des Organisations d'Ingénieurs

**MACCAFERRI**

# REINFORCE 2025



**International Conference on**

**Resilient Engineering Innovations for a Future-Oriented,  
Reliable & Circular Economy Infrastructure**

*The Institution of Engineers (India)*

in association with

**MACCAFERRI**

supported by

**WFEO**

under the tutelage of

**IMC-WFEO**



**Date**

**15<sup>th</sup>-16<sup>th</sup> July, 2025**



**Online Zoom**

**10.00 AM - 6.00 PM (IST/ GMT +05:30)**

# Invitation

The Institution of Engineers (India), in association with Maccaferri and supported by World Federation of Engineering Organizations (WFEO) invites you to effectively participate in the 'REINFORCE 2025' event, to be held virtually on 15-16 July 2025. 'REINFORCE 2025' will highlight key innovations in geotechnical and civil engineering, focusing on sustainability, environmental impact, digital transformation, and resilient infrastructure. Experts from leading institutions, industry and renowned international experts will share insights into emerging technologies and practical solutions for today's infrastructure challenges.

## REINFORCE 2025



REINFORCE 2025 is a high-impact virtual conference uniting global minds to shape the future of resilient and sustainable infrastructure. Hosted by The Institution of Engineers (India) under the aegis of IMC-WFEO in association with Maccaferri and supported by WFEO, this two-day event on 15–16 July 2025 will spotlight breakthrough innovations in geotechnical engineering, digital transformation, and smart, sustainable solutions for tomorrow's world. Join top experts, visionaries, and industry leaders for cutting-edge insights and transformative ideas—all online, all in one place.



## The Institution of Engineers (India) - A Century of Service to the Nation

The Institution of Engineers (India) [IEI], established in 1920 and incorporated by Royal Charter in 1935, is the largest multi-disciplinary professional body of engineers in India. With over 2 million members across fifteen engineering disciplines, IEI has been serving the nation for over a century. Headquartered in Kolkata, IEI operates through 124 Centres in India and several Overseas Chapters, Fora, and an Organ. Recognized as a Scientific and Industrial Research Organisation (SIRO) by the DSIR, Ministry of Science and Technology, Government of India, IEI supports research and development through Grant-in-Aid to UG, PG, and Ph.D. scholars. IEI is also recognized by the National Council for Vocational Education & Training (NCVT) under the Ministry of Skill Development & Entrepreneurship as an Awarding Body (Dual) for skill development initiatives. In collaboration with Springer Nature, IEI publishes five SCOPUS-indexed journal series across 15 engineering disciplines. A founder member of the World Federation of Engineering Organizations (WFEO), IEI maintains active engagement with leading global professional bodies.

Web: [www.ieindia.org](http://www.ieindia.org)

## Maccaferri- Engineering A Better Solution

Established in 1879 and headquartered in Bologna, Maccaferri (Officine Maccaferri S.p.A) has been an innovation leader in the field of civil engineering for the past 140 years. A truly global organization with 70 subsidiaries, 22 production facilities and over 3,500 employees around the world, Maccaferri has an amazingly diverse experience in handling complex civil engineering problems. The organization's vision is to nurture the world of tomorrow, harmonizing life and nature through innovative solutions.

Since inventing the gabions in 19<sup>th</sup> century and changing the landscape of civil engineering, Maccaferri has continued with its quest of pursuing excellence through continuous learning and diversified into wide range of products like geosynthetics, rockfall and avalanche protection systems, double-twist wire mesh products, green-solutions and many more.

In India, Maccaferri was incorporated in 1998 as Maccaferri Environmental Solutions Pvt Ltd, a completely owned subsidiary of Officine Maccaferri and has worked on more than 1200 projects throughout the country. In this time, we have set up production plants in Ranjangaon (Maharashtra) and Una (Himachal Pradesh). With a strong team of around 300 employees, we work towards solving complex technical issues faced by our customers.

Maccaferri's scale and experience enables it to be a reliable partner for important infrastructure projects. Key applications of our products and solutions include:

Rockfall Protection & Snow Barriers	Landscape & Architecture
Basal Reinforcement	Erosion Control
Retaining Walls & Soil Reinforcement	Soil Stabilization & Pavements
Drainage of Structures	Hydraulic Works
Environment, Dewatering & Landfills	Coastal Protection, Marine Structures & Pipeline Protection

Web: [www.maccaferri.com/in](http://www.maccaferri.com/in)





## World Federation of Engineering Organizations

The World Federation of Engineering Organizations (WFEO) was established on March 4, 1968, in Paris under the auspices of UNESCO, bringing together representatives of 50 scientific and technical associations from around the world. As an international, non-governmental organization, WFEO unites multidisciplinary engineering institutions globally to promote the constructive application of engineering for the benefit of humanity. It is recognized as a leading voice of the global engineering profession, working with national and international bodies to address both local and global challenges. WFEO encourages its members to contribute to the creation of a sustainable, equitable, and peaceful world by providing leadership on issues of public concern, offering expert guidance on engineering-related policies, and fostering communication and knowledge exchange among member nations. Through the responsible use of technology, WFEO seeks to advance peace, socio-economic development, and environmental sustainability while strengthening the dialogue between governments, industries, and communities by adding an engineering perspective to policy and investment discussions.

**Web:** [www.wfeo.org](http://www.wfeo.org)

## Indian Member Committee WFEO (IMC-WFEO)

The Indian Member Committee of WFEO (IMC-WFEO), constituted by The Institution of Engineers (India), serves as the official national interface with the World Federation of Engineering Organisations. It aims to strengthen policy dialogue, provide intellectual input, and coordinate operations between IEI and WFEO. The Committee also fosters leadership in the engineering profession, promotes awareness of engineering's role in society, and builds linkages with national and international bodies aligned with WFEO's mission. The Committee for the session 2024-25 are as follows:

### **Chairman**

Er Navinchandra B Vasoya, FIE, Past President, IEI & National Member, WFEO

### **Co-Chairman**

Er V B Singh, FIE, President, IEI

Er S S Rathore, FIE, Past President, IEI and Member, WFEO President's Advisors Committee

### **Members:**

Dr G Ranganath, FIE, Immediate Past President, IEI

Er Satya Prakash, FIE, Council Member, IEI

Er Paramananda Sarkar Banerjee, FIE, Council Member, IEI

### **Special Invitee:**

Er Ashok Kumar Basa, FIE, Past President, IEI and Executive Vice President, WFEO



## Advisory Panels and Organizational Committee

Patrons	<b>Mr Mustafa B Shehu</b> , President, World Federation of Engineering Organizations (WFEO) <b>Mr N K Panda</b> , Managing Director (India & Nepal), Maccaferri Environmental Solutions Pvt. Ltd. <b>Dr GL Shivakumar Babu</b> , Professor- Indian Institute of Science, Bangalore, India
Advisory Committee	<b>Mr VB Singh</b> , President, IEI <b>Mr Ashok Kumar Basa</b> , Past President, IEI and Executive Vice President, WFEO <b>Mr Navinchandra B Vasoya</b> , Past President, IEI & National Member, WFEO <b>Mr S S Rathore</b> , Past President, IEI and Member, WFEO President's Advisors Committee <b>Dr G Ranganath</b> , Immediate Past President, IEI <b>Mr Satya Prakash</b> , Council Member, IEI <b>Mr Paramananda Sarkar Banerjee</b> , Council Member, IEI <b>Dr Ashish Juneja</b> , Professor, Department of Civil Engineering, IIT Bombay <b>Dr Ratnakar R. Mahajan</b> , Regional Technical Manager – ISEAP (India, South East Asia and Pacific) Maccaferri Environmental Solutions Pvt. Ltd. <b>Maj Gen (Dr) MJS Syali, VSM, (Retd.)</b> , Secretary & Director General, IEI
Organizing Committee	<b>Mr Tanmoy Chakraborty</b> , Assistant Director (Secretariat), IEI <b>Ms Moiza Moin Shah</b> , Marketing Head India, Maccaferri Environmental Solutions Pvt. Ltd. <b>Mr Sumit Pathak</b> , Deputy Manager- Technical (Marketing), Maccaferri Environmental Solutions Pvt. Ltd. <b>Ms Sonia Ghanghas</b> , Sr Executive, Maccaferri Environmental Solutions Pvt. Ltd.

### RSVP:

**Mr Tanmoy Chakraborty**

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**Mr. Sumit Pathak**

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Mobile: +91 9873007275

## Speakers of REINFORCE 2025



**Dr. A. Murali Krishna** is a Professor of Geotechnical Engineering at IIT Tirupati. Research interests include Earthquake Geotechnics, Geosynthetics and Ground Improvement, Deep foundations. He supervised 8 Doctoral & 35 master's students; Co-authored nearly 220 technical publications.

**Dr. Amit Prashant** is the BIS Standardization Chair Professor and Dean of R&D at IIT Gandhinagar. He completed his B.E. from IIT Roorkee in 1997 and PhD from the University of Tennessee in 2004. He worked as an Assistant Professor at IIT Kanpur (2005–2010) before joining IIT Gandhinagar. His research focuses on constitutive modelling of soils, earthquake geotechnical engineering, and geosynthetics, involving both experimental and numerical approaches.



**Dr. Ashish Juneja**, Professor at IIT Bombay, specializes in dynamic soil behavior, underground structures, and ground improvement. An IIT Roorkee, IIT Delhi and NUS alumnus, he's an acclaimed researcher, consultant, and award-winning teacher with global academic affiliations. ns.

**Dr. C.N.V. Satyanarayana Reddy**, Professor at Andhra University, has 33 years of experience in geotechnical engineering. He has received several prestigious awards, including Engineer of the Year and A.P. State Best University Engineering Teacher. He has guided 17 Ph.D. scholars, published 128 papers, and holds 14 patents. He is a Fellow of IE(I) and IGS, and a Life Member of IRC and ICI



**Dr. G. L. Sivakumar Babu**, an eminent geotechnical engineer, educator, and researcher at IISc Bangalore has over 400 publications, global recognitions, leadership roles, and major contributions in geosynthetics, forensic, and geoenvironmental engineering

**Mr. Gianluca Spadaro** is working as Business Development Manager at Officine Maccaferri, taking care about India and the Southeast Asian and Pacific regions. He has over 20 years of experience in the Geosynthetics and Industrial Minerals market, during which he has collaborated with the most prominent companies in these sectors







**Dr. K. V. Uday**, Chairperson of the Centre for Climate Change and Disaster Management (C3DAR) at IIT Mandi, specializes in landslide risk reduction, smart geotechnics, and nature-based solutions. He has 15+ years' experience and has led 6+ crore INR research and consultancy funds, 70+ publications, 8 patents, and 1 startup.



**Dr. Madhavi Latha G** is a Professor of Civil Engineering and Chair of the Centre for Sustainable Technologies at IISc. She is a fellow of the Indian National Academy of Engineering.



**Mr. Pierluigi Bassetto** is the CEO and founder of NESA, a leading company in the field of environmental monitoring and early warning systems based on IoT technology, established in 2004. A highly skilled electronic engineer, Bassetto brings a cutting-edge technological vision to the concepts of prevention and safety. Under his leadership, NESA has become one of the key players in the global market for environmental monitoring and alert systems.



**Dr. Ratnakar R. Mahajan**, Regional Technical Manager at Maccaferri, leads geotechnical initiatives across India, Southeast Asia, and the Pacific. An IIT Bombay alumnus, he specializes in soil reinforcement, ground improvement, R&D, and contributes actively to BIS, IRC, and ISSMGE.



**Mr. Rudra Budhbhatti**, Technical Head at Maccaferri India, has over 18 years of experience in geotechnical engineering, including rockfall protection, landslide mitigation, soil reinforcement, slope stability, and erosion control. He has contributed to major projects, published papers, and serves on codal committees.



**Dr. Satyajit Patel**, Associate Professor at SVNIT Surat, specializes in geotechnical and geoenvironmental engineering, with key research in industrial waste utilization, geosynthetics for pavements, and sustainable ground improvement. He holds two patents and 36 international publications.

## Tentative Program

Event Schedule – 15 July 2025		
Time	Speaker(s)	Presentation Topic
10:00 AM – 10:30 AM	Welcome Note Introduction to the Event and Theme Sponsor & Partner Acknowledgment	
10:30 AM – 11:10 AM	Dr. G L Sivakumar Babu (Indian Institute of Science, Bangalore)	Climate Resilient Design of Highways and Embankment using Geosynthetics
11:10 AM – 11:50 AM	Dr. Ashish Juneja (IIT Bombay)	Rockfall Mitigation Measures for Hilly Regions
11:50 AM – 12:30 PM	Dr. Satyajit Patel (SVNIT)	Sustainable Pavement Solutions: Geogrid Reinforcement and Industrial Waste Utilization for Eco-Friendly Roads
12:30 PM – 12:45 PM	Q&A Session	
12:45 PM – 01:00 PM	Sponsor Presentation	
1:00 PM – 2:00 PM	Lunch Break	
2:00 PM – 2:40 PM	Mr. Gianluca Spadaro (Officine Maccaferri Group, Italy)	Sustainable Erosion Control Solutions with Geosynthetics.
2:40 PM – 3:20 PM	Dr. Ratnakar R. Mahajan (Maccaferri, India)	Advanced Solution for Debris Flow Mitigation
3:20 PM – 4:00 PM	Mr. Pierluigi Bassetto (Nesa Srl, Italy)	IoT Based Solution for Resilient Infrastructure
4:00 PM – 4:15 PM	Q&A Session	
4:15 PM – 4:30 PM	Sponsor Presentation	
4:30 PM – 5:10 PM	To be confirmed	To be confirmed
5:10 PM – 5:30 PM	Closing Remark & Brief on Day 2	
Event Schedule – 16 July 2025		
Time	Speaker(s)	Presentation Topic
10:00 AM – 10:30 AM	Welcome Note Sponsor & Partner Acknowledgment	
10:30 AM – 11:10 AM	Dr. Madhavi Latha G (IISc Bangalore)	Innovative geosynthetic solutions for enhanced soil reinforcement
11:10 AM – 11:50 AM	Dr. A. Murali Krishna (IIT Tirupati)	Studies on Geosynthetic Reinforced Shallow Foundations
11:50 AM – 12:05 PM	Sponsor Presentation	





Tentative Program (Contd.)

12:05 PM – 12:45 PM	<b>Mr. Rudra Budhbhatti</b> (Maccaferri, India)	Advanced Solutions for Hydraulic Applications
12:45 PM – 01:00 PM	Q&A Session	
01:00 PM – 02:00 PM	Lunch Break	
02:00 PM – 02:40 PM	<b>Dr. Venkata Uday Kala</b> (IIT Mandi)	Sustainable Solutions in Geotechnical Engineering: 1. Bioengineering: Scheme of selection of plant species for stabilization of shallow landslides 2. Biomineralization: Microbial Intervention for improving the soil-geotextile interface.
02:40 PM – 03:20 PM	<b>Dr. C.N.V Satyanarayana Reddy</b> (College of Engineering, Andhra University)	Reinforced Earth Retaining walls with Industrial by-products as Fill material
3:20 PM – 3:35 PM	Sponsor Presentation	
3:35 PM – 4:15 PM	<b>Dr. Amit Prashant</b> (IIT Gandhi Nagar)	To be confirmed
4:15 PM – 4:30 PM	Q&A Session	
4:30 PM – 5:00 PM	Closing Remarks & Vote of Thanks	

Disclaimer: The event schedule is subject to change at a later stage.

REINFORCE 2025 - Tariff Chart

A. Delegate Registration Tariff

Category	Tariff
Indian Delegates (INR)	₹ 750 (plus 18% GST)
International Delegates (INR)	₹ 2,000 (other taxes as applicable)

Note: Registration fee includes access to all sessions, e-certificates, and conference material.

REGISTRATION

For registration use the link below  
<https://bit.ly/43QXSIf>

or Scan the QR Code



## B. Sponsorship Tariffs & Entitlements

Entitlements	Platinum Sponsor ₹ 1,50,000	Gold Sponsor ₹ 1,25,000	Silver Sponsor ₹ 1,00,000	Supporter ₹ 50,000
Presentation Slot	10-minute slot during two technical session	5-minute slot during two technical session	5-minute slot during one technical session	N/A
Logo Visibility	All digital banners, brochures	Select digital materials and website	Event webpage and e-certificates	Event Banner
Recognition in Sessions	Inaugural and valedictory	Inaugural session	Acknowledgment slide before sessions	N/A
Complimentary Delegate Registrations	10 delegates	5 delegates	2 delegates	One Delegate
Social Media Promotion	2 dedicated posts	1 post	N/A	N/A

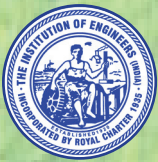
**Note:** All sponsorship charges are exclusive of taxes. GST @ 18% will be applicable on the above amounts.

## Mode of Payment

Payments to be made by cheques/drafts drawn in favour of **“The Institution of Engineers (India)”**. Transfer through NEFT/RTGS will be also accepted. Bank account details for the said purpose are as under:

Particulars	Details	Particulars	Details
Account Name	WEFO CIC INTERNATIONAL SEMINAR 2017	IFSC Code of the Bank Branch for RTGS mode	IBKL0000012
Account Number of Beneficiary	0012104000355391	IFSC Code of the Bank Branch for NEFT mode	IBKL0000012
Account Classification	Savings (SB)	Email ID of Beneficiary for advice of payment by Bank	dd.finance@ieindia.org
Name and address of the Bank Branch (where payments are to be sent by Applicant)	IDBI Bank, Siddha Point, Ground Floor, 101, Park Street, Kolkata, West Bengal, Pin-700016, India.	PAN	AAATT3439Q
Branch Code	000012	Name in PAN	The Institution of Engineers (India)
The 9 Digit MICR code of the Branch (as appearing on the MICR cheque)	700259002	GSTIN	19AAATT3439Q1ZR

# REINFORCE 2025



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**MACCAFERRI**

## The Institution of Engineers (India)

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