

Deep foundations Institute in collaboration with  
Indian Institute of Technology Madras, Chennai and  
Indian Geotechnical Society Chennai chapter presents

**DFI - India 2020**  
**November 19-20**

**10<sup>th</sup>**

Anniversary Conference on

# Deep Foundation Technologies for Infrastructure Development in India

Virtual Precursor to the Main Event in November 2021



[www.dfi.org/India2020](http://www.dfi.org/India2020)

## Registration, Technical Programme, and Sponsorship Opportunities



*Connecting Technology and People*

Register at [www.dfi.org/India2020](http://www.dfi.org/India2020)

# Deep Foundation Technologies for Infrastructure Development in India 2020

## Conference Overview

India has to equip herself to face the increasingly challenging geotechnical and structural demands for the infrastructure developments embracing advanced cutting edge technologies and risk management tools. Join us for the two-day precursor conference to the 10<sup>th</sup> Anniversary Conference on Deep Foundation Technologies for Infrastructure Development in India, to be held virtually during November 19-20, 2020. The Conference will provide a forum for a wide range of geo-professionals to present, discuss and debate many aspects of the latest deep foundation technologies appropriate for the faster development, expansion and improvement of India's critical infrastructure.



### Questions?

Contact [mma@dfi-india.org](mailto:mma@dfi-india.org)

## Conference Registration Fee

2-day Conference (3 Webinars free)	INR
DFI Member*	3,200
IGS and IGSCC Member *	3,700
Non-Member *	4,200
Student (PG & Research)**	800

(\*includes DFI membership through Dec. 31, 2021)

\*\* Students shall register using the institute email ID for availing the concession)

See the next page for group registrations

All registrations cover three webinars, 2 day conference live presentations, one line conference proceedings, participation certificate and professional development hours.

**Cancellation policy:** Visit registration site for cancellation policy.

**Independent Webinar Registration (applicable to all category)**

INR 500 per webinar

### Professional Development Hours

Each webinar provides 1.0 Professional Development Hours (PDHs). Each day of the conference provides 3.5 PDH hours, for a two-day total of 10.0 hours (including the webinars).

## About the Conference

DFII 10th Anniversary Conference will be held in three parts to make it unique, purposeful and impactful to all the stakeholders in these difficult times:

1. Conference in the regular format will be held during Nov '21 at IIT Madras where distinguished key speakers and all other speakers can make an in-person presentation. The authors of the selected abstracts are being requested to submit the full-length papers, and the accepted papers for DFI India 2020 will be carried forward for the 2021 event.
2. As a precursor to the main event, a two-day virtual conference will be held on 19<sup>th</sup> and 20<sup>th</sup> Nov'20. This conference will offer keynote presentations by international experts and some presentations selected from the contributory papers. There will be a panel discussion session during this two-day programme.
3. Three webinar programs are scheduled during August to October 2020, comprising presentations from the global best foundation industry practitioners covering selected topics.

The November 2021 conference will focus on these topics,

- Improving Current Practice with Case Studies
- Developments in Safe and Efficient Geo-Construction
- Advances in Deep Foundations, Earth Retention Systems and Ground Improvement
- Geotechnical Investigation, Testing, Quality Management and Numerical Methods

In addition to showcasing several DFI of India initiatives in the fields of new technology applications and skill development, this conference will provide an interesting program for aspiring students to align their actions to become future leaders.

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### DFI of India Headquarters

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Chennai – 600 042, Tamil Nadu, India





# Technical Program and Speakers

## Technical Program\*

Our two-day virtual conference on 19<sup>th</sup> and 20<sup>th</sup> November '20 will offer keynote presentations by international experts and some presentations selected from the contributory papers. There will be a panel discussion session during this two-day programme.

Three webinar programs during August to October '20, comprising presentations from the global best foundation industry practitioners covering selected topics.

### Webinar Series

(FREE when you register for the Virtual 2020 India Conference)

**Thursday, 20 August 2020, 4:30 PM to 6:00 PM IST**

Speaker: **Dr. Amy Cerato**, University of Oklahoma

Title: *Dynamic and Cyclic Applications of Grouped Helical Piles*

**Thursday, 17 September 2020, 4:30 PM to 6:00 PM IST**

Speakers: **Dr. Karsten Beckhaus** (BAUER Spezialtiefbau GmbH), **Mr. Christophe Justino** (Soletanche Bachy), and **Mr. Peter Faust** (Malcolm Drilling)

Title: *EFFC-DFI Guides to Tremie Concrete and Support Fluids for Deep Foundations.*

**Thursday, 22 October 2020, 4:30 PM to 6:00 PM IST**

Speaker: **Dr. Nicolas Denies** and **Prof. Noel Huybrechts**, The Chair and Secretary of ISSMGE's TC211, Belgian Building Research Institute (BBRI)

Title: *Deep Mixing Equipment and Field of Applications of the Deep Mixing Method*

### Virtual Day 1 (included in the registration)

**Thursday, 19 November 2020 3:00 PM to 7:15 PM IST**

Inauguration

An overview of 10<sup>th</sup> Anniversary Conference in November '21

Sponsor Promotional Videos

Keynote 1 - **Mr. Maurice Bottiau**, Franki Foundations

*Topic to be decided*

Q/A for Keynote 1

Paper Presentation

Sponsor Promotional Videos

Break - DFI Promotional Material and Technical Videos

Keynote 2 - **Dr. Antonio Marinucci**, Advanced Foundation Solutions LLC

*Recent Advancements to Enhance Performance and Reduce Risks in Deep Foundations and Ground Improvement*

Q/A for Keynote 2 Paper Presentations

Panel Discussion on CFA Piles - *A System Changeover and Risk Assessment & Mitigation*

Closing of Day 1

### Virtual Day 2 (included in the registration)

**Friday, 20 November 2020 9:00 AM to 1:15 PM IST**

Recap of the First day

Sponsor Promotional Videos

Special Presentation - **Mary Ellen**

Director of Technical Activities, DFI USA

*Non-profit Profits*

Launch of 'Groundwork' DFI India students outreach initiative

Keynote 3- **Conrad Felice** Ph.D., P.E., P.Eng., D. GE., F. ASCE, Owner and Managing Principal at C. W. Felice, LLC

*Overview of the Use of Geotechnical Baseline Reports*

Q/A for Keynote 3

Paper Presentations

Sponsor Promotional Videos

Break - DFI Promotional Material and Technical Videos

Paper Presentations

Keynote 4- **Prof. Harry G Poulos**,

Emeritus Professor of Civil Engineering, Sydney University

*Applications of piling to infrastructure development*

Closing Session

## Distinguished Speakers

In the order of presentation



Dr. Amy Cerato



Dr. Karsten Beckhaus



Mr. Christophe Justino



Mr. Peter Faust



Dr. Nicolas Denies



Prof. Noel Huybrechts



Mr. Maurice Bottiau



Dr. Antonio Marinucci



Dr. Conrad Felice



Prof. Harry G Poulos

\* Conference Schedule and Technical Program  
Subject to Change

Visit [www.dfi.org/India2020](http://www.dfi.org/India2020) regularly for more details and updates



Panel discussion during DFI India 2019, NAC Hyderabad

# Speakers and Topics

## Thursday, 20 August 2020, 4:30 PM to 6:00 PM IST

Speaker: **Dr. Amy Cerato**, University of Oklahoma

Title: *Dynamic and Cyclic Applications of Grouped Helical Piles*

Helical piles have been used in seismic zones throughout the world for over half a century, and in specific countries, namely New Zealand and Japan, their use is well accepted and well codified, even in highly liquefiable areas. This presentation will focus specifically on grouped helical pile damping characteristics in both small and large shakes, the influence of frequency and slenderness ratio on damping and the difference in behavior of the pile- structure connections.

## Thursday, 17 September 2020, 4:30 PM to 6:00 PM IST

Speakers: **Dr. Karsten Beckhaus** (BAUER Spezialtiefbau GmbH), **Mr. Christophe Justino** (Soletanche Bachy), and **Mr. Peter Faust** (Malcolm Drilling)

Title: *EFFC-DFI Guides to Tremie Concrete, Support Fluids and Platforms for Deep Foundations.*

This webinar will comprise two 30-minute presentations on the European Federation of Foundation Contractors (EFFC) and DFI working group projects on the recent collaboration and development of design guidance for tremie concrete and support fluids for deep foundations. The presentation will highlight the joint society working group activities and partnership involved in developing the internationally-accepted, industry-driven guidance and provide an overview of the guidance documents. The tremie guide provides information on the performance, mix design process, and methods used to test fresh concrete and support fluids. The tremie guide addresses concrete rheology, mix design, reinforcement detailing, concrete cover, and good practice rules for placement and testing of fresh concrete. The support fluid guide overviews the current understanding on bentonite, other clays, polymers and blended systems, including the advantages and limitations to allow informed selection of the optimum technical solutions.

## Thursday, 22 October 2020, 4:30 PM to 6:00 PM IST

Speaker: **Dr. Nicolas Denies** and **Prof. Noel Huybrechts**, The Chair and Secretary of ISSMGE's TC211, Belgian Building Research Institute (BBRI)

Title: *Deep Mixing Equipment and Field of Applications of the Deep Mixing Method*

The Chair and Secretary of ISSMGE's TC211 Committee on Ground Improvement will provide an overview of the various deep mixing methods (DMM) used to perform soil-cement columns, soil mix panels, soil mix trenches and mass stabilization. Various ground improvement patterns that can be created with DMM will be discussed and typical applications will be presented, including soil reinforcement as an alternative to pile groups, retaining walls, cut-off walls, dike reinforcement, in situ remediation, liquefaction risk mitigation, and underpinning. Literature references for each system and application will be provided.

## Thursday, 19 November 2020 During virtual conference time between 3:00 PM to 7:15 PM IST

Keynote 1 - **Mr. Maurice Bottiau**, Franki Foundations

Title: *Recent Advances in the Understanding of Augercast Piles and Displacement Augercast Piles and Impact on their Design.*

Keynote 2 - **Dr. Antonio Marinucci**, Advanced Foundation Solutions LLC

Title: *Recent Advancements to Enhance Performance and Reduce Risks in Deep Foundations and Ground Improvement*

This lecture will present advancements that enhance performance and reduce risk in deep foundations and ground improvement. The presentation will include a discussion of various techniques, devices, and/or approaches and practical applications, installation details, and select test results and observations. Smart Cell (post grouting device), Expander Body (grouted foundation element), Super Cell (bi-directional static load testing device) and EQ-drains (in situ vertical drains) will be discussed.

## Friday, 20 November 2020 During virtual conference time between 9:00 AM to 1:15 PM IST

Keynote 3: **Conrad Felice**, Ph.D., P.E., P.Eng., D. GE., F. ASCE, Owner and Managing Principal at C. W. Felice, LLC

Title: *Overview of the Use of Geotechnical Baseline Reports*

This presentation will provide an overview of the development and application of Geotechnical Baseline Reports (GBRs) as a contract document to identify, allocate, and manage subsurface project risks. Ground related risks continue to dominate claims, cost escalation, and schedule delays on projects regardless of the contract delivery system. GBRs are an evolving approach to provide a contractual basis for the allocation of risk by defining site conditions that should be anticipated and included within the contractual obligations and cost for executing a project.

Keynote 4- **Prof. Harry G Poulos**, Emeritus Professor of Civil Engineering, Sydney University  
*'Applications of piling to infrastructure development'*

This presentation will discuss a number of infrastructure applications of piles and piling, including piles for pavement support, piles for embankment support, and piles for slope stabilization. In each case, some of the key design issues are outlined, and some aspects of pile behaviour are described. Design methods are then recommended and design charts are presented. Some relevant case histories are also discussed.

# Sponsorship Opportunities

Register early to get promotional slots and logo display during pre-conference webinars

Gain exposure for your company before and after the conference by taking advantage of sponsorship opportunities. Doing so demonstrates your support for DFI of India, commitment to knowledge and leadership in the industry.

<b>Platinum Sponsor</b> INR 3,00,000	5 Delegate Registrations Class IV Corporate Membership with relevant benefits until Dec 2021. 5 more delegates for existing corporate members (any class)^
<b>Diamond Sponsor</b> INR 2,00,000	5 Delegate Registrations Class III Corporate Membership with relevant benefits until Dec 2021. 4 more delegates for existing corporate members (any class)^
<b>Gold Sponsor</b> INR 1,75,000	5 Delegate Registrations Class II Corporate Membership with relevant benefits until Dec 2021. 3 more delegates for existing corporate members (any class)^
<b>Silver Sponsor</b> INR 1,25,000	5 Delegate Registrations Class I Corporate Membership with relevant benefits until Dec 2021. 2 more delegates for existing corporate members (any class)^
<b>Bronze Sponsor</b> INR 1,00,000	5 Delegate Registrations 5 more delegates for existing corporate members (any class)^
^Additional benefits: 30 Seconds time slot for your Organization's Promotional Video, One Promotional Slide between the Presentations, Logo and listing on the website. Full page advertisement in the conference souvenir (digital)	
<b>Promotional video</b> INR 25,000	One Delegate Registration, 30 Seconds time slot for your Organization's Promotional Video, DFI Corresponding Membership for the attendee until Dec, 2021. Half page advertisement in the conference souvenir (digital).
<b>Promotional Slide</b> INR 5,000	Logo Slide transition between each slots. Listing in the conference souvenir (digital).



## Group Registration Fee

### DFI Corporate member Group Registrations

2-day Conference + 3 Webinars	INR
Class IV - 16 delegates*	19,200
Class III - 12 delegates*	14,400
Class II - 8 delegates*	9,600
Class I & affiliate - 4 delegates*	4,800
(*Individual certificates will be issued to the attendees)	

### Non-member Group Registrations

2-day Conference + 3 Webinars	INR
5 delegates*	20,000
(* 5 Delegates Registrations, DFI corresponding Membership until Dec, 2021 for the attendees. Please contact DFII office for registering more delegates)	

## Logo Submission Information

Upload your logo with your sponsorship commitment when you register or email it to [dfiindiaoffice@gmail.com](mailto:dfiindiaoffice@gmail.com). Please send logos immediately upon securing your sponsorship. Early submissions will maximize marketing exposure for your company. Late submissions may not guarantee logo placement.

\*\*High quality advertisement material (A4 size portrait or A5 size landscape) shall be made available to DFI of India office at [dfiindiaoffice@gmail.com](mailto:dfiindiaoffice@gmail.com) before 10 November'20.

## Souvenir Book

A commemorative Souvenir Book will be provided to conference delegates containing the conference information, DFI goals and other useful information to foundation engineering professionals.



## Register at

[www.dfi.org/India2020](http://www.dfi.org/India2020) before  
November 14, 2020