

## Report

Deep Foundation Institute (DFI) in association with IIT Delhi organized two day conference (September 19-20, 2014) on “Deep foundation technologies for infrastructure development in India” with a special session on Design aspects of deep foundations in liquefiable soils.

Following invited lectures were delivered.

### **Plenary Session- Theme-1: Drilled Piles, Piers and Caissons**

1. Drilled Piling Systems: Best Practices adopted in Asia- Foo Hee Kang, MD, Resource Piling Pvt. Ltd., A Keller Group Company
2. Bored Cast in situ Piles for foundation of thermal power plants- Mr. R.R. Maurya, NTPC Ltd India
3. Current Experiences with combined Pile- Raft Foundations and Energy Piles- Prof. Dr. Ing. Rolf Katzenbach, Director of the Institute and the Laboratory of Geotechnics, Technical University at Darmstadt
4. Activities of ISSMGE’s Technical Committee on Deep Foundations (TC 212)- Prof. Deepankar Choudhary, IIT Bombay, India

### **Plenary Session- Theme-2: Driven Piles**

1. The use of driven precast concrete piles in Finland- Mr. Teemu Riihimäki, Inspecta Tarkastus Oy., Finland
2. Analytical Foundation Modelling Considerations for performance based design of structures- Dr. J.P. Singh, JP Singh and associates
3. Evaluating Driveability of Offshore Piles in Difficult Soil Conditions- Mr. Pradeep Hora, Petrofac International, Dubai
4. Construction of Marine Facilities for Standby Jetty at Dahej LNG Terminal – Mr. P.S.Bansod, Afcons, India

### **Special Session on Design Aspects of Deep Foundations in Liquefiable Soils**

1. Deep Foundation Behaviour in Liquefied sands- Prof. Kyle Rollin, Brigham Young University, Utah
2. Design of Pile foundations in Liquefiable Soils- Recent Experiences- Dr. Gopal Madabhushi, Professor (Civil Engineering), University of Cambridge, UK
3. Liquefaction Hazard Assessment and Remedial Measures- some case studies- Prof. G.V.Ramana, IIT Delhi, India

### **Plenary Session- Theme-3: Ground Improvement**

1. Selection, Design and specification of Ground Improvement for Liquefaction Mitigation- Dr. Juan I Baez, President, Advanced Geosolutions Inc.
2. New Perspective on Jet Grouting Design and Performance Evaluation- Dr. Chu Ho. Arup USA
3. Role of Foundation Consultants in optimizing time and cost in large projects- Case Studies \_ Prof. V.S. Raju, IIT Delhi, India

**Plenary Session- Theme-4: Deep Excavation Systems**

1. Contract 903- Bugis Station and Associated Tunnels- Mr. Alistair Sim, Regional Director, Soletanche Bachy, Singapore
2. Lessons to be learned from Nicoll Highway Collapse in Singapore- Mr. Manickavel Arumugam, Egis India

Presentation on following two parallel sessions was also conducted:

1. Piling systems- 17
2. Deep Excavation Systems and Ground Improvement - 09