# 6th International Conference

**Recent Advances in Geotechnical Earthquake Engineering** 

### and Soil Dynamics

August 1-6, 2016, IIT Roorkee Greater NOIDA Campus, Greater NOIDA (NCR), INDIA

## Call for Papers

Earthquake, civil, structural and geotechnical engineers, seismologists, geologists, scientists, teachers, builders, consultants, architects, land use planners and other professionals worldwide are invited to contribute original and unpublished papers for discussion at this conference and publication in the proceedings.



#### **Qutb Minar**

Taj Mahal

Qutb Minar: A 72.5 m high minar made of red sandstone and marble. Its construction was started in 1192 by Qutb-ud-din Aibak and completed in 1368 by his successors Iltutmish and Firoz Shah Tughlak

Taj Mahal: The most magnificent building in the world, built by Emperor Shah Jahan in 1631, in the memory of his wife Mumtaz.

#### Mark Your Calendar and Make Plans to Attend

#### For further details, please visit URL: http://www.6icragee.com

#### Preamble

This International Conference is in continuation of the previous five such conferences organized by the Missouri University of Science & Technology, Rolla (US), under the chairmanship of Prof. Shamsher Prakash. All the previous Conferences have proved to be highly successful events. The Conference shall have invited Keynote Lectures, State of the Art and Practice (SOAP) Lectures, Special Presentation Lectures (SPL) and contributed original research papers for discussion and publication in the proceedings. Contributions are expected from over 40 countries.

#### Patron

Pradipta Banerji	director.iitrke@gmail.com				
Honorary Distinguished Co-Chair					
Shamsher Prakash	prakash@mst.edu				
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Organizing Secretaries					
G.V. Ramana	ramana.6icragee@gmail.com				
Ajay Chourasia	ajaycbri@gmail.com				

#### Invited Speakers Keynote Lecture

George Gazetas, NTUA, Greece

#### State of the Art and Practice (SOAP) Lectures

Ahmed Elgamal, UCSD Amir M. Kaynia, NGI H.R. Wason, IIT Roorkee Ikuo Towhata, University of Tokyo James Martin, Clemson University K.S. Rao, IIT Delhi M.L. Sharma, IIT Roorkee Pedro Pinto, LNEC, Lisboa Richard D. Woods, University of Michigan Shamsher Prakash, MST, Rolla T.N. Gupta, Former ED, BMTPC

#### **Special Presentation Lectures (SPL)**

B.K. Maheshwari, IIT Roorkee Deepankar Chowdhary, IIT Bombay G.V. Ramana, IIT Delhi Ion Vlad, TUCE, Bucharest Jorge F. Meneses, GEI, CA S.P.G. Madabhushi, University of Cambridge T.G. Sitharam, IISc, Bangalore Wang Lanmin, LIS, CEA

#### Themes

- 1a. "Dynamic Properties of Soils and Soil-Like Materials, Engineering Soil Parameters and Constitutive Relations"
- 1b. "New Field and Laboratory Methods and Results, Data Base, Large Scale Field Tests, Centrifuge Tests"
- 2. "Wave Propagation, Engineering Vibrations and Solutions, Vibrations of Machine Foundations, Blast, Traffic and Construction Vibrations, Vibration Problem of High Speed Railways, Vibration Absorption"
- 3a. "Engineering Seismology: Near Fault and Directivity Effects, Geologic Indicators of Rupture Direction, Geometric Effects on Ground Motions, Motion Parameters for Design, Borehole Arrays, Seismological and Strong Motion Arrays, Interpretation of Field Array Data, Site Amplification"
- 3b. "Local Site Effects: 1-D/2-D Wave Propagation Predictions and Measurements, Nonlinear versus Equivalent Linear Analysis, Effective Stress versus Total Stress Analysis"
- 4a "Liquefaction and Seismically-Induced Settlement, Ground Failures, Seismic Studies of Bhuj (India), Kobe, Lima Peru, Chile, Taiwan, China, Turkey, U.S., New Zealand (Christchurch) and other Recent Earthquakes, Spatial Liquefaction"
- 4b. "Stability and Displacement Performance of Slopes, Landfills and Earth Dams under Earthquakes"
- 5a. "Soil-Structure Interaction under Dynamic Loading for both Shallow and Deep Foundations, Effect of Vibrations of High Speed Railways on Soils and Soil-Structure"
- 5b. "Soil-Foundation Interaction Triggered by Seismic Faulting"
- 6a. "Seismic Analysis and Design of Retaining and Marine Structures, Field Studies on Retaining Walls in California, Japan, India and other countries"
- 6b. "Seismic Hazard Zonation: Earthquake Risk Assessment with Earthquake Risk Management, Microzonation Projects and Procedures, Use of Building Codes to Reduce Earthquake Hazards"
- 7a. "Case Histories of Geotechnical Earthquake Engineering, Failures and Geotechnical Analysis of Recent Earthquakes, Reports of Recent Damaging Earthquakes"
- 7b. "Seismic Analysis and Retrofit of Foundations of Bridges and other Sub-Structures, Seismic Retrofit Projects and Procedures"
- 8. "Model and Full-Scale Tests of Geotechnical Structures including Centrifuge Tests, Recent Advances from Earthquake Simulation Facilities such as NEES, E- Defense, NCREE"

#### Submission of Abstract:

Prospective authors are invited to submit online one-page (500 words maximum) Abstracts in MS word or PDF file by July 15, 2015. The Abstract should indicate the Theme Number under which it falls on the uppermost corner of the right hand side. Title, author(s) name(s) and affiliations along with email address of the corresponding author is required. The Abstract should contain: an introductory statement that outlines the background and significance of the study, a succinct description of the basic methodologies used, a clear indication of the major findings of the study and a concluding statement.

#### **Exhibitors:**

Organizations /Agencies interested to exhibit their products/services /equipments relevant to the themes of the conference are invited to register. Exhibition stall having 3m x 3m space can be booked in advance on payment of prescribed fee.

#### About Delhi (NCR) Weather:

Delhi is situated on the banks of river Yamuna with Himalayas being to its north. New Delhi, the capital of India and the National Capital Region (NCR) have a hot and humid climate during the month of August with temperatures varying between 35°C (high) and 26°C (low) and RH is 73% average. However, there are frequent light showers in the evenings on many days, and the temperatures fall to pleasant levels.

#### **Other Details:**

Other details about the Conference structure are available on the Conference website.

http://www.6icragee.com

#### **Important Deadlines:**

Submission of Abstracts Abstract Acceptance Intimation Submission of Full Paper Manuscript Submission of Invited Full Papers Second Announcement and Final Brochure Full Paper Acceptance Intimation Early-Bird Deadline for Delegates & Exhibitors Soil Dynamics Short Course Conference Inauguration
Conference Inauguration Post-Conference Tour

#### **Registration & Sponsors Fees:**

#### Delegates

Until March 31, 2016 ISET Members	INR	6000.00	Sponsors Platinum	Any amount befitting the
Non -ISET Members	INR	8000.00	FIAUITUIII	organization
Foreign Delegates	US\$	500.00	Gold	INR 2.00 Lakh/US\$ 6000
Bonafide Students /	INR	4000.00/	Silver	INR 1.50 Lakh/US\$ 5000
Accompanying Persons	US\$	250.00	Bronze	INR 1.00 Lakh/US\$ 4000
After March 31, 2016 ISET Members Non -ISET Members Foreign Delegates Bonafide Students / Accompanying Persons	INR INR US\$ INR US\$	7000.00 9000.00 550.00 4000.00/ 250.00	drawn in payable a	nd Draft / Cheque shall be favour of "6ICRAGEE" t Punjab National Bank, ee Campus Branch (Code

#### For further information please contact:

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**Organized by** Indian Society of Earthquake Technology & Department of Earthquake Engineering,



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Deadline for Abstract: July 15, 2015 Call for Papers: Online at http://www.6icragee.com

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