

A Brief Report of Geotechnical Earthquake Engineering Webinars From December 2021 to December 2022

The Dept. of Earthquake Engineering, IIT Roorkee, and the Indian Society of Earthquake Technology (ISET) has organized the webinars under Shamsheer Prakash Chair, IIT Roorkee from December 2021 to December 2022. These webinars are also supported by the Indian Geotechnical Society (IGS) Roorkee Chapter, CSIR - Central Building Research Institute (CBRI), Roorkee, and TC203 of ISSMGE.



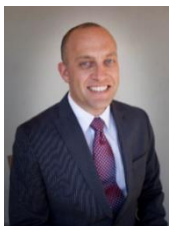
This webinar series was in Honour of **Dr. Shamsheer Prakash**, Professor Emeritus, Missouri Science and Technology for his contributions to Geotechnical Earthquake Engineering. Prof. Prakash is an international expert in soil dynamics and earthquake engineering. He has published three books in India and four books in the USA as well as over three hundred technical papers.

Prof. Kenji Ishihara, Chuo University, Japan has inaugurated the GEE webinars on December 8, 2021. He has been affiliated with the University of Tokyo since 1977, taking the post of professorship in geotechnical engineering. In 1995 he took up the post of Professor of Geotechnical Engineering at the Tokyo University of Science and then at Chuo University.



1st GEE Inaugural Webinar lecture has been delivered by **Prof. Misko Cubrinovski**, University of Canterbury, New Zealand, and Chair of TC203 of ISSMGE entitled “**Mechanics-based Evaluation of Soil Liquefaction**” on December 8, 2021. While more than 366 people have registered. A total of 293 have participated in the webinar including 59 foreign delegates from 13 countries.

2nd GEE Webinar lecture has been delivered by **Prof. Ikuo Towhata**, Prof. Emeritus, University of Tokyo, Japan entitled “**Ground Water is More Important in Triggering Landslides than so far Supposed**” on January 27, 2022. While more than 595 people have registered. Total of 251 have participated including 50 foreign delegates from 11 countries.



3rd GEE Webinar lecture has been delivered by **Prof. Scott J. Brandenberg**, University of California at Los Angeles, USA entitled “**Seismic Analysis of Levee Systems**” on February 10, 2022. While more than 686 people have registered. Total of 209 have participated in the webinar including 32 foreign delegates from 7 countries.

4th GEE Webinar lecture has been delivered by **Prof. Sebastiano Foti**, Politecnico di Torino, Italy entitled “**Stochastic Analysis of Seismic Ground Response**” on March 24, 2022. While more than 700 people have registered. Total of 125 have participated including 26 foreign delegates from 5 countries.



5th GEE Webinar lecture has been delivered by **Prof. Ioannis Anastasopoulos**, ETH Zurich, Switzerland entitled “**Vulnerability Assessment and Retrofit of Existing Bridge Foundations**” on April 13, 2022. While more than 860 people have registered. Total of 155 have participated including 29 foreign delegates from 6 countries.

6th GEE Webinar lecture has been delivered by **Prof. Jonathan D. Bray**, University of California, Berkeley, USA entitled “**Selection of Seismic Coefficient in Assessing Seismic Slope Stability**” on May 11, 2022. While more than 1005 people have registered. Total of 178 have participated including 37 foreign delegates from 8 countries.



7th GEE Webinar lecture has been delivered by **Prof. Deepankar Choudhury**, Prof. T. Kant Chair Professor, IIT Bombay entitled “**Design Solutions for Complex Geostuctures under Dynamic Loadings: Case Studies**” on June 07, 2022. While more than 1305 people have registered. Total of 239 have participated including 23 foreign delegates from 7 countries.

8th GEE Webinar lecture has been delivered by **Prof. Kyle Rollins**, Brigham Young University, USA entitled “**Liquefaction - Induced Downdrag in Single Piles and Pile Groups**” on July 28, 2022. While more than 1265 people have registered. Total of 160 have participated including 29 foreign delegates from 12 countries.



9th GEE Webinar lecture has been delivered by **Prof. T.G. Sitharam**, Indian Institute of Technology Guwahati, India entitled “**Engineering Preparedness for Earthquake Disaster Mitigation - Towards Disaster Resilience Society**” on August 26, 2022. While more than 1350 people have registered. Total of 150 have participated including 15 foreign delegates from 6 countries.

10th GEE Webinar lecture has been delivered by **Prof. George Gazetas**, National Technical Univ. of Athens, Greece entitled “**Design of Rocking Foundations for Seismic Safety and Resilience**” on September 20, 2022. While more than 1400 people have registered. Total of 195 have participated including 33 foreign delegates from 8 countries.



11th GEE Webinar lecture has been delivered by **Prof. M. Hesham El Naggar**, Distinguished University Professor, Canada entitled “**Performance-Based Design of Extended Pile Shafts Subjected to Cyclic Loading**” on November 22, 2022. While more than 1400 people have registered. Total of 195 have participated including 27 foreign delegates from 5 countries.

Prof. Izzat M. Idriss, University of California Davis, USA was the chief guest and **Prof. Kenji Ishihara** was the guest of honor for the valedictory ceremony on December 9, 2022.



A panel discussion was organized followed by valedictory ceremony with the speakers of GEE webinar series and moderated by **Prof. Misko Cubrinovski**.

GEE Webinar Series has been chaired by **Prof. B.K. Maheshwari**, Vice-President ISET and Shamsher Prakash Chair Professor, IIT Roorkee. **Abstract Volume of 1st Webinar Series on Geotechnical Earthquake Engineering (GEE) can be viewed at <https://www.iitr.ac.in/geowebinars/pdf/book.pdf>**