

**Activity Report on International Webinar Series on Forensic Geotechnical Engineering,**

**Organized by TC-302 of ISSMGE during 10-13 December, 2020**

Technical Committee 302 (Forensic Geotechnical Engineering) of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) conducted the International Webinar on Forensic Geotechnical Engineering (IWFGE) during 10-13 December, 2020. The program was jointly organized by TC 302 of ISSMGE, Indian Geotechnical Society, Indian Institute of Technology Bombay, Indian Institute of Science Bangalore, Indian Institute of Technology Delhi and Scheme for Promotion of Academic and Research Collaboration, Government of India. The organizing committee was actively led by Prof. G. L. Sivakumar Babu, Chairman, TC-302, Prof. S.P. Gopal Madabhushi, Vice-Chairman, TC-302, and Prof. Dasaka S. Murty, Secretary, TC-302.

The series of lectures delivered at the event are as follows.

Lecture Title	Speaker	
Engineering Risk Mitigation for the Landslide Dam Breaches on the Jinsha River and the Yarlung Tsangpo Grand Canyon in 2018  Abstract URL: <a href="https://tinyurl.com/yxbu8ql4">https://tinyurl.com/yxbu8ql4</a> Presentation URL: <a href="https://tinyurl.com/y6qo7qwb">https://tinyurl.com/y6qo7qwb</a>	Prof. Limin Zhang Associate Head and Chair Professor Department of Civil and Environmental Engineering, Hong Kong University of Science and Technology, Hong Kong	
Forensic Investigation and Retrofit of a Subway Tunnel Failure  Presentation URL: <a href="https://tinyurl.com/y2kpb3lz">https://tinyurl.com/y2kpb3lz</a> Video URL: <a href="https://tinyurl.com/2wes2zen">https://tinyurl.com/2wes2zen</a>	Dr. W. F. Lee Honorary Editor, Forensic Engineering Journal, ICE, Taiwan	
Geotechnical Extreme Events Reconnaissance: The Importance of Perishable Data  Abstract URL: <a href="https://tinyurl.com/y634lk77">https://tinyurl.com/y634lk77</a>	Prof. David Frost Elizabeth and Bill Higginbotham Professor School of Civil and Environmental Engg., Georgia Institute of Technology, USA	
Human Factors in Engineering Failures – Some Common Problems and a Few Examples  Presentation URL: <a href="https://tinyurl.com/y3jlvnv4">https://tinyurl.com/y3jlvnv4</a> Video URL: <a href="https://tinyurl.com/5784nevz">https://tinyurl.com/5784nevz</a>	Prof. Kerry Rowe Barrington Batchelor Distinguished Professor Department of Civil Engineering, Queen's University, Canada	

<p>The Capability of the Geotechnical Engineer to Prevent the Geo-Disaster</p> <p>Abstract URL:  <a href="https://tinyurl.com/y474sk9s">https://tinyurl.com/y474sk9s</a>                  Presentation URL:  <a href="https://tinyurl.com/yxwocanv">https://tinyurl.com/yxwocanv</a></p>	<p>Prof. Iwasaki Yoshi                  (Director, Geo-Research Institute, Japan)</p>	
<p>Lessons Learned from Waste Containment Facilities Failures</p>	<p>Prof. Malek Bouazza                  Professor                  Department of Civil Engg.,                  Monash University,                  Australia</p>	
<p>Investigations for the Understanding and Root Cause of the Failure on Chaglla Headrace Tunnel</p> <p>Abstract URL:  <a href="https://tinyurl.com/y4z984qv">https://tinyurl.com/y4z984qv</a>                  Presentation URL:  <a href="https://tinyurl.com/y3p3f25f">https://tinyurl.com/y3p3f25f</a>                  Video URL:  <a href="https://tinyurl.com/huct2vw">https://tinyurl.com/huct2vw</a></p>	<p>Prof. Luiz Guilherme de Mello                  Assistant Professor                  Polytechnical School                  University of Sao Paulo,                  Brasil</p>	
<p>Re-evaluation of the Fundao Tailings Dam Failure in Brazil – Causation and Failure Mechanism</p> <p>Presentation URL:  <a href="https://tinyurl.com/y6z85qfm">https://tinyurl.com/y6z85qfm</a></p>	<p>Prof. Timothy D. Stark                  Professor                  University of Illinois at Urbana-Champaign, USA</p>	
<p>Extraction of Underground Energy Resources and Induced Seismicity</p> <p>Presentation URL:  <a href="https://tinyurl.com/yy2bjc4j">https://tinyurl.com/yy2bjc4j</a>                  Video URL:  <a href="https://tinyurl.com/tcj53pz3">https://tinyurl.com/tcj53pz3</a></p>	<p>Prof. Ikuo Towhata                  Professor Emeritus                  Department of Civil Engineering                  University of Tokyo, Japan</p>	
<p>Safety of Underground Structures and its Countermeasures</p> <p>Abstract URL:  <a href="https://tinyurl.com/yxba4eaj">https://tinyurl.com/yxba4eaj</a>                  Presentation URL:  <a href="https://tinyurl.com/y3lehc2">https://tinyurl.com/y3lehc2</a>                  Video URL:  <a href="https://tinyurl.com/248nce75">https://tinyurl.com/248nce75</a></p>	<p>Prof. E. C. Shin                  Professor                  Department of Civil and Environmental Engineering                  Incheon National University, Korea</p>	

<p>Learning from Post-Earthquake Reconnaissance</p>	<p>Prof. Gopal Madabhushi S.P. Professor Department of Engineering University of Cambridge, UK</p>	
<p>Planning for Failure is Hard to Do... but Important</p> <p>Abstract URL: <a href="https://tinyurl.com/y66wuenl">https://tinyurl.com/y66wuenl</a></p>	<p>Prof. Robert Gilbert Department Chair and Professor, Dept. of Civil, Architectural and Environmental Engg., University of Texas at Austin, USA</p>	
<p>Some Geotechnical Incidents and How They Have Influenced the Geotechnical Landscape in Singapore</p> <p>Presentation URL: <a href="https://tinyurl.com/y2puapua">https://tinyurl.com/y2puapua</a> Video URL: <a href="https://tinyurl.com/4pdpvun2">https://tinyurl.com/4pdpvun2</a></p>	<p>Prof. Lee Fook Hou Professor Department of Civil and Environmental Engineering National University of Singapore, Singapore</p>	
<p>Investigation of Unanticipated Performance of Materials and Geotechnical Processes in the Ground</p> <p>Abstract URL: <a href="https://tinyurl.com/yxrk5bkh">https://tinyurl.com/yxrk5bkh</a></p>	<p>Prof. Stephan Jefferis Visiting Professor Department of Engineering Science, University of Oxford, UK</p>	
<p>Learning from Failures and Forensic Engineering Education</p> <p>Abstract URL: <a href="https://tinyurl.com/y5jwm6oo">https://tinyurl.com/y5jwm6oo</a> Presentation URL: <a href="https://tinyurl.com/y3a6a52x">https://tinyurl.com/y3a6a52x</a></p>	<p>Prof. G. L. Sivakumar Babu Professor Department of Civil Engg., Indian Institute of Science, India</p>	

These webinars were chaired by Dr Angus Maxwell, Chief Executive of Maxwell Geosystems, Hong Kong, Prof. Anand Puppala, Texas A&M University, USA, Dr. Bindumadhava Aery, Technical Director, Aurecon, Australia, Dr Rajagopal Karpurapu, Professor of Civil Engineering & Institute Chair at IIT Madras, Prof. Askar Zhussupbekov, Professor of Department of Civil Engineering, and Director of Geotechnical Institute, Eurasian National University, Kazakhstan, Dr. N.K. Samadhiya, Professor, Department of Civil Engineering, IIT Roorkee, and Dr. Feyza Cinicioglu, Professor and Head of the Department at the Ozyegin University, Istanbul.

There was a good participation of delegates from different ISSMGE member countries in all the lectures, which made the event a grand success.