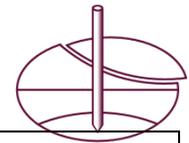


**ISSMGE FOUNDATION**  
**REPORT ON CONFERENCE ATTENDANCE**

<b><i>Your Name:</i></b> Ketan Bajaj	<b><i>Your Organization:</i></b> Indian Institute of Science, Bangalore	<b><i>Date of report:</i></b> 4 <sup>th</sup> August, 2017
<b><i>Conference Title:</i></b> 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering	<b><i>Location of Conference:</i></b> <i>Vancouver, BC, Canada</i>	<b><i>Dates of Conference:</i></b> 16-19 July, 2017
<b><i>What you learned:</i></b> <p>The conference included thirteen plenary keynote lectures on the performance based design and its application in geotechnical engineering. Moreover future direction in the field of earthquake geotechnical engineering was also discussed. Main focus of the conference was performance-based design practices for geotechnical earthquake engineering across a broad range of civil infrastructure problems and their applications. Presentations discussed about evaluation and recent development in Liquefaction, Ground motion models, site response studies and lessons learnt from previous earthquakes. From these studies, I got to know about the recent studies in ground motion models, site classification and site response studies and soil-structure interaction. Being a PhD student working in the field of application of earthquake geotechnical engineering it was useful to meet many experts and professors who are working in the same field. I shared my research work with them and got some very useful suggestions which are going to be helpful in my PhD research work.</p>		
<b><i>People you met:</i></b>  <b>Prof. Steven Kramer-</b> University of Washington, USA <b>Prof. Ross W Boulanger</b> – University of California, Davis, USA <b>Prof. George Gazetas</b> – National Technical University of Athens, Greece <b>Dr. Ramon Verdugo</b> – Principal of CMGI		



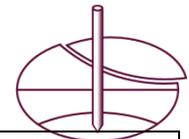
**Prof Brendon Bradley** – University of Canterbury

***Main features of conference:***

The PBD-III Conference is organized under the auspices of the International Society of Soil Mechanics and Geotechnical Engineering - Technical Committee TC203 on Geotechnical Earthquake Engineering and Associated Problems (ISSMGE-TC203). The conference had total twenty sessions (with five parallel sessions) dedicated to different themes. The themes were mainly focused on performance based design and application in geotechnical earthquake engineering field like Ground Improvement, Numerical analysis, soil structure interaction, ground motion and site response. Before the start of the sessions there were keynote lectures delivered by distinguished researchers and practitioners in the area of probabilistic geotechnical engineering from around the world. The plenary keynote started with “Evolution of flow liquefaction: Influence of High Stress” by Peter Robertson and other by George Gazetas “The 2014 Cephalonia Twin Earthquake: Source Mechanics and Soil effects on Monuments and Quay Walls” which were enlightening. The research articles are peer-reviewed. The conference has offered many other awards, discussions and educational tours.

***Your comments on the conference:***

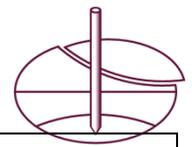
The conference was of high quality having reputed professionals and academicians. The lectures delivered by professionals and presentations given by students were novel and excellent. Management and organization of various events were good and various sessions and refreshment were on time which made it possible to interact with various probabilistic geotechnical engineering experts. Venue of the conference was very good located in the main city of Vancouver which was accessible and helped to attend the conference without any trouble. Overall the conference was a learning experience and I would like to thank the organizers for giving me opportunity to present my work. My special thanks to the ISSMGE Foundation for helping me attending this conference and meeting the experts of geotechnical earthquake engineering field.



***Please attach short report (maximum 400 words) suitable for publication in the ISSMGE***

***Bulletin:***

The conference started with a welcome speech by Ross W. Boulanger and Dharma Wijewickreme, Conference Chair who explained the main objectives of the conference. After the welcome speech, The Plenary Keynotes lecture titled “Evaluation of Flow Liquefaction: Influence of High Stress” was delivered by Prof. Peter Robertson from Gregg Drilling & Testing Inc. in which he explained about the flow liquefaction along with the different case histories. Next day Plenary Keynotes lecture titled “Applicability of Sliding Block Analyses to Lateral Spreading Problems” was delivered by Prof. Steven L. Kramer from University of Washington. Everyday three keynote lecture were there that corresponding to the different themes in the conference. The parallel sessions started on second day focused on liquefaction, ground motions and site response, Numerical analysis, soil structure interaction, dynamic analysis, challenging soil and seismic hazard assessment. I attended the Ground motion and site effect session. The discussion starts with the Keynotes lecture by Gang Wang on Large-scale simulation of ground motion amplification considering 3D topography and subsurface soils and in second session Keynotes lecture by Domniki Asimaki on the complexity of seismic waves trapped in non-flat geologic features. Many case histories were discussed which helped me understanding the difficulties associated with application site response study in deep and shallow basin and their solutions which is going to help me in my work regarding Indo Gangetic Basin. Next day keynote lectures were delivered by Prof. Hashash of University of Illinois on “Seismic Performance Evaluation of Underground Structures – Past Practice and Future Trends” and Prof Bradley of University of Canterbury on “On-going challenges in physics-based ground motion prediction and insights from the 2010-2011 Canterbury and 2016 Kaikoura, New Zealand earthquakes”. The lectures were high enlightening. Parallel sessions on this day focused on performance designed on ground motion and site response as well as on soil-structure interaction. Discussion on a paper I presented in a conference with the experts is also useful for me. Overall the conference was really enlightening, informative and very well organized. Once again thanks to the ISSMGE Foundation for providing me financial assistance for attending the conference.



***Photographs from Conference:***



Inauguration of the conference

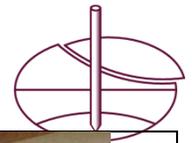


Photo with Prof. George Gazetas



Presenting my article