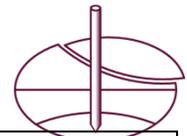




## ISSMGE FOUNDATION

### REPORT ON CONFERENCE ATTENDANCE

<b>Your Name:</b> Gaurav Tiwari	<b>Your Organization:</b> Indian Institute of Science, Bangalore	<b>Date of report:</b> 15 <sup>th</sup> June, 2017
<b>Conference Title:</b> Geo-Risk 2017 : Geotechnical risk from theory to Practice	<b>Location of Conference:</b> Denver, Colorado, USA	<b>Dates of Conference:</b> 4-7 June, 2017
<b>What you learned:</b> The conference included two Honor and seven keynote lectures on the development of different probabilistic methods and their application to geotechnical engineering. Moreover future direction in the field of probabilistic geotechnical engineering was also discussed. Main focus of the conference was the reliability based code development and their applications. In these presentations development of different probabilistic approaches like Bayesian approach, random field modelling and their application in geotechnical structure design was discussed. From these studies, I got to know about the area of reliability based code development, modelling soil spatial variability and application of reliability methods in stability analysis of slopes, dams and landslides. Being a PhD student working in the field of application of probabilistic approaches in rock mechanics 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.		
<b>People you met:</b>  <b>Prof. DV Griffith-</b> Colorado School of Mines <b>Prof. Limin Zhang</b> - Hong Kong University of Science and Technology <b>Prof. C Hsein Juang</b> – Clemson University <b>Mr. Girish Kumar</b> – University of Illinois, Chicago <b>Dr. Anand Govindaswamy</b> - Principal Engineer, Geocomp, Boston		
<b>Your comments on the conference:</b>  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 venue was very good located in the main city of Denver 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 “ISSMGE Foundation” for helping me attending this conference and meeting the experts of probabilistic geotechnical engineering field.		



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

The conference started with a welcome speech by Prof. DV Griffiths, Conference Chair who explained the main objectives of the conference. After the welcome speech, The Suzanne Lacasse lecture titled “Bayesian Thinking in Geotechnics” was delivered by Prof. GB Baecher from University of Maryland in which he explained the application of Bayesian techniques in geotechnical engineering. Next day Wilson Tang lecture titled “Future directions in reliability-based geotechnical design” was delivered by Prof. GA Fenton from Dalhousie University. Two Keynote lectures were delivered by DE Becker of Golder Associates on “Geotechnical Risk Management and Reliability based design: lessons learned” and B Simpson of Arup Geotechnics on “Eurocode 7 and Robustness”. The parallel sessions started on that day focused on application of reliability methods on tunnels, advances in reliability based design, application of reliability methods in liquefaction and Bayesian techniques. I attended the risk assessment of tunnelling session. The discussion on application of probabilistic approaches in shield tunnelling was quite enlightening. Many case histories were discussed which helped me understanding the difficulties associated with application of probabilistic approaches in tunnelling and their solutions which is going to help me in many Himalayan tunnel construction design. Next day keynote lectures were delivered by Prof. Juang of Clemson University on “ Assessing soil liquefaction and effect using probabilistic methods” and Prof Studelein of Oregon State University on “ Performance of structures founded in spatially variable soil: A probabilistic SSI framewok”. The lectures were high enlightening. Parallel sessions on this day focused on application probabilistic and reliability based method on slope stability analysis and landslides, spatial variability of soil, reliability and risk based code developments. I attended “Slope failures and Landslides” session. The case studies on Michigan Ditch Landslide and Colorado springs were very informative and useful for me. Overall the conference was really enlightening, informative and very well organized. Once again thanks to “ISSMGE Foundation” for providing me financial assistance for attending the conference.

***Photographs from Conference:***



**Inauguration of the conference**

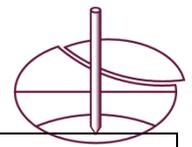


Photo with Prof DV Griffith



Presenting my article