## ISSMGE FOUNDATION
### REPORT ON CONFERENCE ATTENDANCE

<table>
<thead>
<tr>
<th>Your Name:</th>
<th>BHARDWAJ PANDIT</th>
<th>Your Organization:</th>
<th>INDIAN INSTITUTE OF SCIENCE, BANGALORE, INDIA</th>
<th>Date of report:</th>
<th>27th November 2018</th>
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<tr>
<th>Conference Title:</th>
<th>10th Asian Rock Mechanics Symposium</th>
<th>Location of Conference:</th>
<th>Suntec, Singapore</th>
<th>Dates of Conference:</th>
<th>29th October – 2nd November, 2018</th>
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### What you learned:
The conference was sponsored by International Society for Rock Mechanics (ISRM). It had seven keynote lectures from the leading rock mechanics researchers. Additionally, lectures from the prestigious ISRM award recipients such as Franklin award, Rocha medal for best thesis award. The conference was focused on the infrastructure and resource development through improvement in design methodologies in rock mechanics. The conference also covered some high level basic research from many academicians. Particularly, Keynote lecture given by Prof. John Harrison on implementation of Eurocode -7 in rock mechanics was inspiring and gave directions for further research in the field. The conference helped me a lot in understanding the recent trends in in-situ and laboratory testing in rockmass, constitutive models and numerical modelling, reliability-based design approaches and tunnel construction and monitoring methods. Being a PhD student focused in reliability-based design in rock mechanics, this conference was very useful since it gave me opportunity to meet many experts and professors. I got many useful suggestions regarding my PhD work as well as future course of the research.

### People you met:  
In addition to the list given below, I met many professors and students from different countries

- **Prof. John Harrison** - University of Toronto, Canada
- **Prof. Maurice Dusseault** - University of Waterloo, Canada
- **Prof. Resat Ulusay** - Hacettepe University, Turkey *(ISRM President elect)*
- **Dr. Nick Barton** – International consultant on rock mechanics
- **Prof. Zhao Zhiye** - Nanyang Technological University (NTU), Singapore

### Main features of conference:
10th ARMS conference was the ISRM International Symposium for 2018. The conference had total 24 oral presentation sessions (with 4 parallel sessions) dedicated to different themes. The themes covered almost all major fields of rock mechanics such as Rockmass characterisation, Numerical modelling, Tunnelling methodologies, Mining Engineering etc. The three day conference always started with keynote lectures and lectures by award recipients followed by poster and oral presentation. It also offered many awards, few technical visits and a quiz for young researchers. Exhibitors at the conference comprised of Beck Engineering, Bekaert Maccaferri Underground Solutions, Rocscience Inc and many others.
Your comments on the conference:

10th ARMS: The theme of the conference was *Rock mechanics in resource and infrastructure development*. The lectures and presentation covered all major topics of rock mechanics pertaining to civil, mining and petroleum engineering. The conference was very well organized with several high quality papers being orally presented and few others put up on poster display. I would like to thank organizing committee of 10th ARMS, for giving me an opportunity to present my research paper. I am also grateful to the “ISSMGE Foundation” for providing financial support, without which it would have not been possible for me to attend such a wonderful and informative conference.

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

10th Asian Rock Mechanics Symposium, the ISRM International Symposium for 2018

29 OCT - 03 NOV 2018, Singapore

The conference was organized by ISRM, Society for Rock Mechanics and Engineering Geology (Singapore) and Chinese Society for Rock Mechanics and Engineering. The symposium was chaired by Yingxin Zhou. The theme of the conference was *Rock mechanics in resource and infrastructure development* and aimed at recent approaches of design and monitoring in rock structures and treating rockmass as a resource for various purposes like petroleum storage etc. The conference began by two days (29th and 30th Oct) of ISRM meeting and short courses.

The opening ceremony was held on morning of 31st October at SUNTEC convention centre Singapore. The conference started with a speech from current ISRM president Dr. Eda F. de Quadros followed by keynote lectures from Prof Manchao HE, Prof Derek Elseworth and Prof John Harrison on topics of Mining rock mechanics, Coupling processes on deep geothermal energy and Implementation of Eurocode respectively. Rest of the day comprised of poster session and four parallel oral presentation sessions on different topics.

Second day began by lecture by Dr. Michael du Plessis, Rocha medal recipient (Best thesis award) who talked about his PhD work on design and behaviour of crushed pillars in mining engineering. This was followed by Young Researcher Plenary Session which included lectures by selected young researchers, who discussed their PhD work. This was concluded by Early Career Forum session and Rock Bowl quiz meant for young and emerging researchers.

Third day of the session began by ISRM Franklin Award lecture and other keynotes and concluded with the closing ceremony.

The conference had 7 keynote lectures and 5 lectures by award recipients. Around 700 papers were selected for oral and poster presentations. The topics of presentation sessions included Rock tunnels and caverns, mining engineering, rock dynamics, rockmass characterization, numerical modelling and design methodologies, site investigation and monitoring, Smart Technologies in Rock engineering, rock slopes and special case studies. All the sessions were observed by a good gathering of people who shared new ideas and asked questions to the presentee as a constructive criticism. Breaks were given to explore the posters and exhibitions on all the days. The conference schedule was maintained on time. Participation in the conference was from both academics and practising engineers. The event concluded by technical visit to rock mechanics lab at NTU on 3rd November.

Photographs from Conference: Insert here or attach to email
With conference delegates

Meeting with other researchers
Myself presenting the paper