3RD ISRM EUROPEAN ROCK MECHANICS DEBATE (Eurock Debate 3)

Different approaches for tunnelling: empirical, observational, modelling

Time: 2023, January 25th, 2:30 PM (CET)- 1:30 PM (GMT)

Links:

Zoom (https://us06web.zoom.us/meeting/register/tZAod-6gpzgjH9aION3tNP9qxbxtVDAQSMxl) and YouTube channel (https://www.youtube.com/@IntSocRockMechanics/streams).
Copy the link and paste it in your browser to register and attend the zoom meeting or to follow the debate the YouTube channel.

Moderator: Philippe Vaskou (France)

Speaker 1: Nick Barton (Norway & Brazil)

Subject: Empirical Methods in Tunnelling including Site Characterization, Day-to-Day solutions, and input for Numerical Discontinuum Modelling.

Bio: Dr. Nick Barton developed the widely used Q-system for classifying rock masses and for selecting rock tunnel support (1974) and the Barton-Bandis constitutive laws for coupled M-H rock joint modelling following his JRC-JCS constitutive law suggestion (1982). Through Nick Barton & Associates, he provides international consultancy on rock engineering projects.

Speaker 2: Yossef H. Hatzor (Israel)

Subject: Empirical vs. Analytical Approaches for predicting Rock Response to Tunnelling based on Case Studies from across the World.

Bio: Prof. Yossef H. Hatzor is currently Chair Professor of Rock Mechanics at Ben-Gurion University of the Negev, Israel. He published together with Prof. Guowei Ma and Prof. Genhua Shi the book entitled “Discontinuous Deformation Analysis in Rock Mechanics Practice”. He has been involved in major consulting rock engineering projects.

ISRM EUROPEAN ROCK MECHANICS DEBATE SERIES (Eurock Debates)

The series of debates aim at stimulating communications among academics and practitioners of rock mechanics and rock engineering in Europe. It is hoped that the European network of rock mechanics and rock engineering is strengthened through such communications. The debates are held virtually and each one will have two speakers, with different perspectives on a hot rock engineering topic or on a specific technical aspect of rock mechanics. One of the main aims is also to collect opinions and suggestions from the rock mechanics community.

The debating topics are selected by an ad hoc Organising Committee, initially on the basis of three debates per year.

Organising Committee: Charlie C. Li (charlie.c.li@ntnu.no), Philippe Vaskou (philippe.vaskou@outlook.fr) & Leandro R. Alejano (alejano@uvigo.gal)

EUROCK DEBATE RULES

Debates, in one form or another, are commonly used in democratic societies to explore and resolve issues and problems and in scientific societies to foster research and development. The following guidelines will be follow:

- A topic is selected by the organizers. Suggestions from rock mechanics academics and practitioners are welcome. Two speakers will be invited to briefly introduce the topic from different point of views (theory/practice, lab/in situ, academic/practical, empirical/observational approach…) with the aim of fostering debate.
- The chairman/moderator welcomes the audience and then introduces the topic for the seminar and will also present both speakers for a short time.
- Both speakers present the basics of the topics from their point of view and comment on possible open issues or aspects needing more research, based on a prepared presentation. Every speaker will have 15 minutes time to do that.
- Both speakers have 5 minutes to comment, deepen, illustrate or rebut the presentation of the other speaker. The idea is investigating what can add the perspective of the other speaker to the work develop by the speaking one.
- A free round of questions preferably to both speakers is open and moderated by the chairman. Short questions and answers are preferred. This can extend for a time between 15 and 30 minutes.
- 1 minute will be given to every speaker to wrap-up his/her comments and points of view. The chairman closes the meeting.