



SECOND CALL

# RECENT TRENDS IN ROCK MECHANICS

LJUBLJANA ▪ RADISSON BLU PLAZA HOTEL ▪ 31<sup>ST</sup> JANUARY 2020



DATE:	Friday, 31. 01. 2020
TIME:	From 8.00 to 17.30
VENUE:	Radisson Blu Plaza Hotel Ljubljana, Bratislavska cesta 8, 1000 Ljubljana
FEES:	122 Euros per person (includes lunch and two coffee breaks)
SPACE RESTRICTIONS:	Due to the space restrictions the first 180 applications will be accepted for the attendance on the first come first served basis.
PRINTED MATTER:	There will be no printed proceedings for the workshop

Radisson Blue Plaza hotel offers accommodations at reduced price for the attendees of the workshop. The reservation can be made via email [matic.vozlic@radissonblue.com](mailto:matic.vozlic@radissonblue.com) using the reference: »The ISRM workshop«.

APPLICATION  
FORM

RADISSON BLUE  
PLAZA HOTEL

## ORGANIZERS

SLOGED, Slovenian Geotechnical Society and DRC, Slovenian Society for Research in Road and Traffic Infrastructure in cooperation with IRGO Institute for Mining, Geotechnology and Environment



Slovensko geotehniško društvo





# RECENT TRENDS IN ROCK MECHANICS

The International Society for Rock Mechanics and Rock Engineering – ISRM delegated Slovenian Geotechnical Society – SLOGED to organise the workshop on the topic of Recent Trends in Rock Mechanics. The workshop, which is jointly organised by DRC (Slovenian Society for Research in Road and Traffic Infrastructure), SLOGED (Slovenian Geotechnical Society) and IRGO (Institute for Mining, Geotechnology and Environment) is taking place at Radisson Blu Plaza Hotel in Ljubljana on 31<sup>st</sup> of January 2020.

The International Society for Rock Mechanics and Rock Engineering ISRM is one of the leading international societies in the field of Geotechnical Engineering numbering around 8,500 members and 61 National Groups. The field of Rock Mechanics is taken by the Society to include all studies relative to the physical and mechanical behaviour of rocks and rock masses and the applications of this knowledge for the better understanding of geological processes and in the fields of Engineering (ISRM Statutes). The activities of ISRM provide for the needs of the engineers in Civil, Mining and Petroleum Engineering Industries.

The workshop in Ljubljana is organised as a parallel event to the meeting of the newly elected ISRM Board (for details check <https://www.isrm.net/gca/?id=1400>). For this reason, the workshop presents a unique opportunity to listen to the contributions of the leading experts in the field, as each member of the ISRM Board is going to deliver the lecture at the workshop, including the newly elected President of the ISRM, Prof. Dr. Resat Ulusay. Additionally, representatives of the regional national societies of Croatia, Bulgaria, Slovenia, North Macedonia, Bosnia and Herzegovina and Serbia are going to contribute to the workshop with their lectures. In total, 17 lectures will be presented on the variety of topics during a whole day event.

Vojkan Jovičič, PhD  
Vice President of ISRM, IRGO

Mojca Ravnikar Turk, MSc  
President of SLOGED

Evstahij Drmota  
Director of DRC

## ORGANISATION BOARD

Mojca Ravnikar Turk, President of SLOGED  
Suzana Svetličič, Secretary General of SLOGED  
Evstahij Drmota, Director of DRC  
Dr. Vojkan Jovičič, Vice President of ISRM, IRGO





## ISRM INTERNATIONAL WORKSHOP

### RECENT TRENDS IN ROCK MECHANICS

LJUBLJANA ■ RADISSON BLU PLAZA HOTEL ■ 31<sup>ST</sup> JANUARY 2020

# PROGRAMME

08.00 – 08.30 Registration

08.30 – 09.00 Opening Ceremony

#### 09.00 – 10.40 SESSION 1: ROCK MASS CATEGORISATION AND BASIC RESEARCH

*Laura Pyrak Nolte, USA*

##### **Fracturing in Orthorhombic Media**

*Michael du Plessis, SOUTH AFRICA*

##### **Applying Suitable Failure Criteria to Simulate Damage in a Rock Mass**

*Milorad Jovanovski, NORTH MACEDONIA*

##### **An Approach for Adapting Geotechnical Investigation to the Cases of Rock Mass - Structure Interaction: Complexities of EC7**

*Resat Ulusay, TURKEY*

##### **Factors Affecting the Stability of Ancient Sites in Rock: A Case Study from an Open Air Museum**

*Ömer Aydan, JAPAN*

##### **Utilization of Drone, Laser Scanning, Dinsar Technologies in Rock Engineering**

10.40 – 11.10 Coffee break

#### 11.10 – 12.30 SESSION 2: ROCK SLOPE STABILITY

*José Pavon, PARAGUAY*

##### **Rock Slope Stability in Alto Parana Region**

*Vladimir Čebašek, SERBIA*

##### **The Influence of Weather Conditions on the Stability of Slopes in Soft Rocks: Example of Beočin Quarry**

*Chavdar Kolev, BULGARIA*

##### **Rock Slopes Stability as a Function of Stress Concentration**

*Predrag Mišćević, CROATIA*

##### **Degradation Processes and Slope Stability in Soft Rocks**

12.30 – 14.00 Lunch

#### 14.00 – 15.20 SESSION 3: CASE EXAMPLES IN MINING AND CIVIL ENGINEERING (1)

*Sevda Dehkhoda, AUSTRALIA*

##### **Future of Mining Fragmentation**

*Suseno Kramadibrata, INDONESIA*

##### **Analysis of Transition Period of Open-Pit Copper Mine into Underground Block Cave Copper Mine**

*Jure Klopčič, SLOVENIA*

##### **Influence of Anisotropy of Rock Mass on Magnitude and Direction of Tunnel Displacements**

*Yang Qiang, CHINA*

##### **Failure and Reinforcement Analysis of Geotechnical Structures Based on Unbalanced Forces**

15.20 – 15.50 Coffee break

#### 15.50 – 17.10 SESSION 4: CASE EXAMPLES IN MINING AND CIVIL ENGINEERING (2)

*Luis Lamas, PORTUGAL*

##### **Input of Rock Mechanics Testing Methods for Stress Measurements in a Concrete Arch Dam**

*Sabid Zekan, BOSNIA AND HERZEGOVINA*

##### **General Review of Subsidence in Tuzla by Coal and Salt Mining**

*Vojkan Jovičič, SLOVENIA*

##### **Preservation of Water Resources for Tunnelling in Karst: Example of Divača–Koper Railway Line**

*Leandro Alejano, SPAIN*

##### **Stability of Engineering Rock Masses: The Case of Granite Drystone Masonry Retaining Walls**

17.10 – 17.30 Concluding ceremony



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