

## Information

- Organisers:** SG Geotechnika a.s., Geologická 4, Prague 5, Czech Republic  
tel.: +420 725 045 270, e-mail: konference@geotechnika.cz  
Charles University, Faculty of Science, Albertov 6, 128 43 Prague 2  
Czech and Slovak Society for Soil Mechanics and Geotechnical Engineering, FCE CTU Prague, Department of Geotechnics
- Under auspices of:** Institute of Theoretical and Applied Mechanics, Czech Academy of Sciences
- Organising committee:** Chairman: Ing. Zdeněk Sekyra  
Members: Prof. RNDr. David Mašín, M.Phil., Ph.D.,  
Prof. Ing. Jana Frankovská, Ph.D., Mgr. Šárka Dvořáková
- Registration fee:** Registration fee for early registration is 1700,- CZK (68 EUR)  
(Members of ČKAIT 1400,- CZK, 56 EUR).  
Late registration fee (after 6. 5. 2022) is 2250,- CZK (90 EUR).  
Monday 23 May Conference Dinner is subject to a fee of EUR 88  
(2200,- CZK). The tickets are available on a first come, first served  
basis.
- Lunch:** Sandwiches will be provided during the lunch break on Monday  
23 May 2022.
- Proceedings:** Participants will obtain printed proceedings.
- Registration:** **Registration of participants is required on:**  
[www.geotechnika.cz/formular](http://www.geotechnika.cz/formular)  
(Alternatively filled-in registration forms should be sent to:  
Mgr. Šárka Dvořáková, e-mail: sarka.dvorakova@geotechnika.cz)  
**Deadline for early registration 6. 5. 2022.**  
Late registration is accepted, subject to the late registration fee.
- Payment:** Payment should be made by bank transfer; details are specified in the  
registration form.
- Commercial exhibition:** In the form of brochures, self-arranged posters or exhibition in Hall  
No. 205 – only on Monday 23 May 2022 from 8 am to 5.30 pm.  
More details on the exhibition are enclosed with the invitation  
in the Presentation Registration Form.
- Organising information:** Prof. RNDr. David Mašín, M.Phil., Ph.D., tel.: +420 221 951 552  
e-mail: masin@natur.cuni.cz

# PRAGUE GEOTECHNICAL DAYS 2022

## 28<sup>th</sup> PRAGUE GEOTECHNICAL LECTURE

Organisers:



SG Geotechnika a.s.



Charles University  
Faculty of Science



Czech and Slovak Society  
for Soil Mechanics and  
Geotechnical Engineering

under the auspices of the Institute of Theoretical and Applied Mechanics  
of the Czech Academy of Sciences

## 23 and 24 May 2022

Czech Academy of Sciences

Národní třída 3, Prague 1

and

Charles University, Faculty of Science

Albertov 6, Prague 2

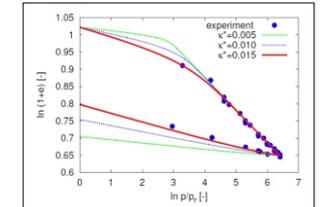
Scientific committee:

Prof. Ing. Jana Frankovská, Ph.D.,

Prof. RNDr. David Mašín, M.Phil., Ph.D.

This event with international participation is part of the  
ČKAIT (the Czech Chamber of Chartered Engineers  
and Technicians Engaged in Construction) continuing  
professional education project and is worth  
**two credit points.**

Commercial exhibition will accompany the event.



# PRAGUE GEOTECHNICAL DAYS 2022

**Monday, 23 May 2022**

Czech Academy of Sciences, Národní třída 3, Prague 1

8:30 – 9:00 Registration, commercial exhibition

9:00 – 9:15 Opening address  
*Ing. Zdeněk Sekyra, SG Geotechnika a.s.*  
*Prof. Jana Frankovská, CSSSMGE*

## INVITED LECTURES:

### Geotechnical Parameters - from Site Investigation to Design

9:15 – 9:50 **Parameter-Derivation for Advanced Geotechnical Design**  
*Prof. Lidija Zdravkovic, Imperial College of Science and Technology, UK*

9:50 – 10:25 **Investigation on the Seismic Slope Stability for Planned Lakes in Opencast Mines in the Rhenish Lignite Mining Area**  
*Prof. Torsten Wichtmann, Ruhr-Universität Bochum, Germany*

10:25 – 11:00 **Cyclic Laterally Loaded Piles - Laboratory Testing, Model Testing and Numerical Analyses**  
*Dr. Hendrik Sturm, DNV, Norway*  
*Prof. Youhu Zhang, Southeast University, China*

11:00 – 11:30 Coffee break, refreshment

11:30 – 12:05 **The Excavation of the Brenner Base Tunnel under the Alps: an Insight into the Rock-Mass Behaviour and TBM Performance**  
*Prof. Daniela Boldini, Sapienza University of Rome, Italy*

12:05 – 12:40 **Numerical Prediction of Performance of Pull-Out Test of Ground Anchors Utilizing In-situ and Laboratory Testing**  
*Prof. Helmut Schweiger, Graz University of Technology, Austria*

12:40 – 13:40 Lunch break

13:40 – 14:15 **Development of Ground Model for Settlement Analysis with Aid of Machine Learning**  
*Dr. Jakub Panuška, STU Bratislava, Slovakia*

14:15 – 14:50 **Static Liquefaction in Tailings**  
*Prof. Mathew Richard Coop, University College London, UK*

14:50 – 14:55 **Quido Záruba Prize Ceremony**

14:55 – 15:10 **Presentation of Quido Záruba Prize Winner**

15:10 – 15:30 Coffee break

15:30 – 17:00

## 28<sup>th</sup> PRAGUE GEOTECHNICAL LECTURE

### Recent Developments in Laboratory Testing of Geomaterials with Emphasis on Imaging Processes

*Prof. Gioacchino Viggiani*  
*Université Grenoble Alpes, France*

18:30 Conference Dinner

**Tuesday, 24 May 2022**

Charles University, Faculty of Science, Albertov 6, Prague 2

## WORKSHOP:

### 3D Experimental Micromechanics at the Grain Scale:

#### What for?

*Prof. Gioacchino Viggiani*  
*Université Grenoble Alpes, France*

9:00 – 9:30 Coffee, refreshment

9:30 – 12:00 Workshop followed by discussion