

INTERNATIONAL CONFERENCE

# PRAGUE GEOTECHNICAL DAYS 2024

## 30<sup>th</sup> JUBILEE PRAGUE GEOTECHNICAL LECTURE

13 – 14 May 2024

Czech Academy of Sciences  
Charles University, Faculty of Science

 SG GEOTECHNIKA.



FACULTY OF SCIENCE  
Charles University

Czech and Slovak Society for Soil Mechanics and Geotechnical Engineering  
CSS|SMGE

Under the auspices of the Institute of Theoretical  
and Applied Mechanics of the Czech Academy  
of Sciences.

Scientific committee:

prof. David Mašín

prof. Ivo Herle

Dr. Gianvito Scaringi

This event with international participation is part  
of 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 2024

Monday, 13 May 2024

Czech Academy of Sciences, Národní třída 3, Prague 1

8:30–9:00 **Registration, commercial exhibition**

9:00–9:15 **Opening address**  
 Ing. Petr Kučera – Ing. Zdeněk Sekyra, SG Geotechnika  
 prof. Jana Frankovská, CSSSMGE  
 prof. David Mašín, Charles University  
 prof. Stanislav Pospíšil, Czech Academy of Sciences

## INVITED LECTURES Geotechnical Monitoring

9:15–9:50 **How Can We Specify Quality in Geotechnical Monitoring?**  
 Dr. Andrew Ridley, Geotechnical Observations, London, United Kingdom

9:50–10:25 **In Situ Monitoring of the Evolution of the Frozen Wall Thickness in the Application of Artificial Ground Freezing: Observations and Interpretation**  
 prof. Francesca Casini, Tor Vergata University of Rome, Italy

10:25–11:00 **Distributed Fibre Optic Monitoring of Piles**  
 Dr. Loizos Pelecanos, University of Bath, United Kingdom

11:00–11:30 **Coffee break**

11:30–12:05 **Towards Integrating Advanced Numerical Models with Monitoring Data**  
 prof. Minna Karstunen, Chalmers University of Technology, Göteborg, Sweden

12:05–12:40 **Adding Value to Geotechnical Monitoring with Machine Learning Approaches: TBM Tunnel Excavation as a Case Study**  
 prof. Jean-Michael Pereira, Ecole des Ponts ParisTech, France

12:40–13:40 **Lunch break**

13:40–14:15 **Monitoring Infrastructure Earthworks to Assess their Long-Term Performance**  
 Dr. Joel Smethurst, University of Southampton, United Kingdom

14:15–14:50 **Instrumentation, Data Acquisition and Control for a New Geotechnical Laboratory**  
 Dr. Sam Stanier, University of Cambridge, United Kingdom

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 **30<sup>th</sup> PRAGUE GEOTECHNICAL LECTURE**  
**Liquefaction-Induced Landslides**

prof. Eduardo Alonso  
 BarcelonaTech (UPC), Spain

18:30 **Conference Dinner**

Tuesday, 14 May 2024

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

9:00–9:30 **Coffee, refreshment**

9:30–12:00 **WORKSHOP**  
**Coarse Granular Materials: from Particle Behaviour to Large-Scale Structures**

prof. Eduardo Alonso  
 BarcelonaTech (UPC), Spain

# Information

<b>ORGANISERS</b>	<p><b>SG Geotechnika a.s.</b>, Geologická 4, Prague 5, Czech Republic +420 725 045 270, <a href="mailto:konference@geotechnika.cz">konference@geotechnika.cz</a></p> <p><b>Charles University</b>, Faculty of Science, Albertov 6, 128 43 Prague 2</p> <p><b>Czech and Slovak Society for Soil Mechanics and Geotechnical Engineering</b>, FCE CTU Prague, Department of Geotechnics</p>						
<b>UNDER AUSPICES</b>	Institute of Theoretical and Applied Mechanics, Czech Academy of Sciences.						
<b>ORGANISING COMMITTEE</b>	<p>Chairman: Ing. Zdeněk Sekyra</p> <p>Members:</p> <table><tr><td>prof. RNDr. David Mašín, M.Phil., Ph.D.</td><td>Mgr. Šárka Dvořáková</td></tr><tr><td>prof. Ing. Jana Frankovská, Ph.D.</td><td>Mgr. Klára la Torre</td></tr><tr><td>Univ.-Prof. Dr.-Ing. habil. Ivo Herle</td><td>Dr. Gianvito Scaringi, Ph.D.</td></tr></table>	prof. RNDr. David Mašín, M.Phil., Ph.D.	Mgr. Šárka Dvořáková	prof. Ing. Jana Frankovská, Ph.D.	Mgr. Klára la Torre	Univ.-Prof. Dr.-Ing. habil. Ivo Herle	Dr. Gianvito Scaringi, Ph.D.
prof. RNDr. David Mašín, M.Phil., Ph.D.	Mgr. Šárka Dvořáková						
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Univ.-Prof. Dr.-Ing. habil. Ivo Herle	Dr. Gianvito Scaringi, Ph.D.						
<b>REGISTRATION FEE</b>	<table><tr><td>Early registration fee:</td><td>1.960, - CZK (80 €)</td></tr><tr><td>Members of ČKAIT:</td><td>1.600, - CZK (65 €)</td></tr><tr><td>Late registration fee:</td><td>2.450, - CZK (100 €)</td></tr></table> <p>(after April 28, 2024)</p> <p>The Monday 13 May 2024 Conference Dinner is subject to a fee of 110 € (2.700, - CZK). The tickets are available on a first come, first served basis.</p>	Early registration fee:	1.960, - CZK (80 €)	Members of ČKAIT:	1.600, - CZK (65 €)	Late registration fee:	2.450, - CZK (100 €)
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Late registration fee:	2.450, - CZK (100 €)						
<b>PAYMENT</b>	Payment should be made by bank transfer; details are specified in the Registration Form.						
<b>LUNCH</b>	Sandwiches will be provided during the lunch break on Monday 13 May 2024.						
<b>PROCEEDINGS</b>	Participants will obtain printed proceedings.						
<b>REGISTRATION</b>	<p>Registration Form: <a href="http://www.geotechnika.cz/formular">www.geotechnika.cz/formular</a></p> <p>Alternatively, send an attached hard copy of the Registration Form: Mgr. Šárka Dvořáková, <a href="mailto:sarka.dvorakova@geotechnika.cz">sarka.dvorakova@geotechnika.cz</a></p> <p><b>Deadline for early registration is April 28, 2024.</b> Late registration is accepted, subject to the late registration fee.</p>						
<b>COMMERCIAL EXHIBITION</b>	In the form of brochures, self-arranged posters or exhibition in Hall No. 205 – only on Monday 13 May 2024 from 8 am to 5.30 pm. More details about the exhibition will be sent with the invitation. Please see the Company Presentation Application Form.						
<b>ORGANISING INFORMATION</b>	prof. RNDr. David Mašín, M.Phil., Ph.D., +420 221 951 552, <a href="mailto:masin@natur.cuni.cz">masin@natur.cuni.cz</a>						