INTERNATIONAL CONFERENCE

PRAGUE GEOTECHNICAL DAYS 2023

29th PRAGUE GEOTECHNICAL LECTURE







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

22-23 May 2023

Czech Academy of Sciences
Charles University, Faculty of Science

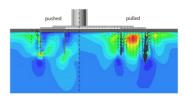
Scientific committee:

prof. David Mašín prof. Ivo Herle Dr. Gianvito Scaringi

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 2023

Monday, 22 May 2023

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 prof. David Mašín, Charles University

INVITED LECTURES Cyclic Loading of Geotechnical Structures

9:15–9:50	The NGI Framework for Cyclic Loading Foundation Design Dr. Lars Andresen, NGI, Norway
9:50–10:25	Design of Offshore Wind Turbine Foundations for Cyclic Loading prof. Byron Byrne, University of Oxford, United Kingdom
10:25–11:00	Predicting the Accumulated Rotation of Monopiles under Lifetime Conditions Dr. Ana Page, NGI, Norway
11:00–11:30	Coffee break, refreshment
11:30–12:05	Thermo-Mechanical Modeling of Seasonal Heat Storage in Clay prof. Andrew Whittle, MIT, Boston, USA
12:05–12:40	Design of Pile Foundations for Large Storage Tanks under Seismic Loading prof. Hauke Zachert, TU Darmstadt, Germany
12:40-13:40	Lunch break
13:40–14:15	Exploiting Soil Behaviour to Improve Cyclic Geo-Structural Performances: from Seismic to Offshore Applications prof. Andrea Diambra, University of Bristol, United Kingdom

14:15–14:50	Numerical Analyses of Monopiles under Cyclic Lateral Load: from Simple 2D to Complex 3D Approaches Dr. Maciej Ochmanski, Silesian University of Technology, Gliwice, Poland
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

29th PRAGUE GEOTECHNICAL LECTURE

Critical State Constitutive Modeling of Sands within Bounding Surface Plasticity, and Application to Centrifuge Data for Geotechnical Structures under Cyclic Loading

prof. Yannis F. Dafalias University of California, Davis; National Technical University of Athens; Institute of Thermomechanics, CAS, Prague

Tuesday, 23 May 2023

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

WORKSHOP

Fabric Anisotropy within Anisotropic Critical State Theory

prof. Yannis F. Dafalias University of California, Davis; National Technical University of Athens; Institute of Thermomechanics, CAS, Prague

9:00–9:30	Coffee, refreshment
9:30–12:00	Workshop followed by discussion

Programme subject to change.

Information

SG Geotechnika a.s., Geologická 4, Prague 5, Czech Republic Organisers:

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: Institute of Theoretical and Applied Mechanics, Czech Academy

of Sciences

Organising Chairman: Ing. Zdeněk Sekvra committee:

Members: prof. RNDr. David Mašín, M.Phil., Ph.D.,

prof. Ing. Jana Frankovská, Ph.D., Mgr. Šárka Dvořáková, Mgr. Klára la Torre, Univ.-Prof. Dr.-Ing. habil. Ivo Herle,

Dr. Gianvito Scaringi, Ph.D.

Registration fee: Early registration fee: 1.960,- CZK (80 €)

Members of ČKAIT: 1.600,- CZK (65 €)

Late registration fee (after 5. 5. 2023): 2.450,- CZK (100 €)

Monday 22 May 2023 Conference Dinner is subject to a fee of 110 € (2.700,- CZK). The tickets are available on a first come, first served

basis.

Payment: Payment should be made by bank transfer; details are specified

in the registration form.

Lunch: Sandwiches will be provided during the lunch break on Monday

22 May 2023.

Participants will obtain printed proceedings. **Proceedings:**

Registration: Registration of participants if required on:

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 is on 5. 5. 2023. Late registration

is accepted, subject to the late registration fee.

In the form of brochures, self-arranged posters or exhibition in Hall Commercial exhibition: No. 205 – only on Monday 22 May 2023 from 8 am to 5.30 pm.

More details on the exhibition are enclosed with the invitation

in the Presentation Registration Form.

Organising prof. RNDr. David Mašín, M.Phil., Ph.D., tel.: +420 221 951 552 information:

e-mail: masin@natur.cuni.cz