

Dansk Geoteknisk Foreningsmøde nr. 3. 2021

Thursday 11th November 2021, 14:45 – 19:40

Aalborg University (AAU), Department of the Built Environment
Thomas Manns vej 23, 9220 Aalborg

3rd ANNUAL DANISH GEOTECHNICAL RESEARCH SEMINAR

The Division for Structures, Materials and Geotechnics within the Department of the Built Environment at AAU is hosting the Danish Geotechnical Society's 3rd Annual Research Seminar. The seminar is open for members of DGF as well as external partners and students.

Join us this day to hear more about ongoing and recently completed research within Geo-technical Engineering at the Universities in Denmark, which will be showcased through speed presentations and a poster session. In addition, the Geotechnical research group at AAU will present their new geotechnical research laboratory facilities.



The fee for participation is **DKK 375, incl. VAT** for both members of the Danish Geotechnical Society and non-members. Students and senior citizens participate for free. The seminar includes dinner and coffee.

Register for the seminar at <https://danskgeotekniskforening.dk/da/event/forskerdagen-2021-på-aau> for both members and non-members (please remember to include details of invoicing, DGF members need to log-in to ensure correct registration) no later than **Monday 1st of November 2021**.

Adresse
Maglebjergvej 1
DK-2800 Kgs. Lyngby

CVR-nr.
62 16 09 18

Telefon/e-mail
+45 45 20 41 29
dgf@geo.dk

Bank
4190-7104081
Danske Bank

Program

- 14.45-15.15 **Coffee and cake** (Thomas Manns vej 23, 2 floor)
- 15.15-15.25 **Official start - Welcome by DGF** (Auditorium 1.177, Pontoppidanstræde. 111
DGF / Jakob Hausgaard Lyngs)
- 15.25-16.05 **Presentation of research groups and overview of ongoing research at AAU, AU, and DTU.**

AAU / Prof. Lars Bo Ibsen
AU / Docent Kenny Sørensen
DTU / Ass. Prof. Varvara Zania
- 16.05-16.40 **Examples of Geotechnical Research at the Universities in DK – 2 min. speed presentations**
/ see list below
- 16.40-16.50 **Short Break**
- 16.50-17.40 **Poster and networking session A / Lab tour B.** (Thomas Manns vej 23, 2 floor and Lab ground floor)
- 17.40-18.40 **Dinner** (location t.b.a.)
- 18.40-19.40 **Poster and networking session B / Lab tour A.** (Thomas Manns vej 23 2 floor, and Lab ground floor)

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Overview of Speed presentations and contributions to the Poster Session:

#	Title	Presenter	Affiliation	Oral	Poster
1	Three-Dimensional Modeling of Monopiles in Sand Subjected to Lateral Loading under Static and Cyclic Conditions	Amin Barari	AAU	X	X
2	Finite-element investigation of excavation-induced settlements of buildings and buried pipelines	Yuepeng Dong	DTU	X	X
3	Underground Pumped Hydro-energy Storage - Centrifuge and numerical modelling of the soil-membrane-water system	Andrea Franza	AU	X	X
4	Investigation of the penetration resistance coefficients in CPT-based method for suction bucket foundations installation in Sand	Aleksandra K. Koterias	AAU	X	X
5	Bridging the gap: Using Machine Learning to predict CPT data from marine geophysical surveys	Thomas Guldborg Pedersen	DTU	X	X
6	Underground Pumped Hydro-energy Storage - Field trial at Foulum and monitoring developments	Andrea Franza	AU	X	X
7	The effects of soil density and cyclic loading characteristics on the axial response of suction bucket foundations	Sorin Grecu	AAU	X	X
8	Petrophysical logging in geotechnical investigations	Leonardo Teixeira Pinto Meireles	DTU	X	X
9	Characterisation of Danish Geotechnical Test sites	Kenny Sørensen	AU	X	X
10	Robot for large-scale model testing	Tomas Sabaliauskas	AAU	X	X
11	Temperature effects on stiffness properties of chalk and sandstone	Tobias Orlander	DTU	X	X
12	Integrated modelling of monopiles and wind turbines: Introduction of a foundation macro element within an aero-hydro-servo-elastic model	Morten Ladegaard Jakobsen, Martin Normann Luxhøj	AU	X	X
13	Numerical predictions for centrifuge model tests of suction bucket foundation on liquefiable seabed	Alfonso E. Palacios, Manh Duy Nguyen, Vladimir Markovic	AAU	X	X
14	Salinity effects on heat transfer in permafrost soils and the impact on stability of critical infrastructure in Greenland	Sona Tomaskovicova	DTU	X	X
15	A macro-element anchor foundation model for the hybrid modelling of floating offshore structures	Rasmus Møller Sørensen & Mathias Graversgaard	AU	X	X

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16	Multi-scale study of the swelling behaviour of Rosnaes Clay	Irene Rocchi	DTU	-	X
17	A novel mode based characterisation of swelling in Paleogene clays	Emil Mejlhede Kinslev	DTU	-	X
18	Development of permeability during consolidation in Paleogene clays	Emil Mejlhede Kinslev	DTU	-	X
19	Mapping road conditions and damages to assess the impacts of permafrost thaw in two coastal communities in West-Greenland	Johanna Scheer	DTU	-	X
20	Picking shear wave arrivals in porous chalk with confidence	Ermis Proestakis	DTU	-	X
21	Could diatomites collapse wells?	Ermis Proestakis	DTU	-	X
22	Water-flooding and consolidation of reservoir chalk – effect on porosity and Biot’s coefficient	Ida Lykke Fabricius	DTU	-	X
23	Digital twins for sustainable underground constructions	Efthymios Panagiotis	DTU	-	X
24	Preliminary results of a towed transient electromagnetic survey (tTEM) for infrastructure planning and water vulnerability assessment	Thomas Højland Lorentzen	DTU	-	X
25	Distributed fiber-optic sensing for characterizing soil-structure interaction – the case of plate foundations	Eyal Levenberg	DTU	-	X
26	Research based Civil and Architectural Engineering study programs at AU with focus on Geotechnical Engineering	Kenny Sørensen	AU	-	X
27	Simplified SSI models for assessing tunnelling-induced distortions of infilled and bare frames: comparison with centrifuge and numerical results	Andrea Franza	AU	-	X

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