

18 - 20th
SEPTEMBER

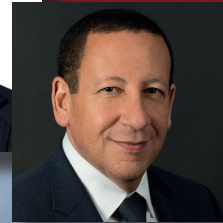
NGM 2024

Nordic Geotechnical Meeting

PROGRAM
19th of September

THURSDAY

Registration 07:30 - 08:30



08:30 OPENING SESSION CONFERENCE HALL

Keynote lectures:

ISSMGE President Dr Marc Ballouz
ISSMGE Vice President Europe Prof. Lyesse Laloui

10:00 SWEDISH FIKA - COFFEE BREAK SPONSORED BY



In the **Conference Hall**: Statistik kortkurs med Prof Göran Sällfors - in Swedish (20 min) during the coffee break

10:30	<i>Conference Hall</i> Sustainable Foundations	<i>Pascal</i> Sustainable Foundations	<i>Tesla</i> Construction in Urban Areas	<i>Kelvin</i> Digitalization/Visualization
	Stability of natural slopes - robustness and safety Gustav Grimstad	Shearing Behaviour of Cement Stabilised Gytija Nicolas Fernandez Holdt-Olesen	Generation of excess pore pressures from DTH drilled piles Anders Beijer Lundberg	Physics-informed neural networks with curriculum training for flow and deformation processes in soils Yared W. Bekele
	Implication of 3D slope stability analyses for sensitive clay slopes Samson A. Degago	Cementstabilization of peatmaterial in road construction Kristoffer Lauridsen	Updated: Prediction of deformations from displacement pile installation on foundations belonging to buildings using the sspm method Jonatan Isaksson	Digital geotechnical information management for lifecycle resource savings Mats Svensson
	Measuring strength increase of remoulded sensitive clay from the gjerdrum landslide, Norway Marius Mathisen Søvik	Peat – Strength and stability of existing railway embankments Bo Vesterberg	Evaluation of design methods for axial capacity of driven piles in sand Fredrik Kolsgaard	Using Machine Learning to Predict the Pile Bearing Capacity from Restrিকে Data Jakob Thuesen Udengaard / Emil Skouboe
	A review of state of the art on erosion-driven quick clay landslides Ankit Tyagi	Surcharged embankments over peat in north west Ireland: data analysis Fattahi Masrouf	Bored piles in Copenhagen Limestone Kirsten Malte Iversen	Bridging geophysical and geotechnical results: an automated cad visualization method for 2d data Omid Ahmadi
	On the liquid limit of sensitive clay Dorsa Saaedifar	The tiller-flotten peat site: characterization and engineering properties of a natural peat soil deposit aimed for geotesting Mike Long	Modelling the permeability of a jet grouted cut-off wall Mårten Brinck	On the application of visual programming in geotechnical planning practice Johannes Beck

12:00 LUNCH BREAK AND TIME TO EXPLORE THE EXHIBITION

In **PASCAL at 12:30**: Presentation and short course - New Eurocode - In English (50 min) during the lunchbreak

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THURSDAY

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13:30	Conference Hall Sustainable Foundations	Pascal Challenges in the future	Tesla Digitalization/Visualization	Kelvin Challenges in the future
	Coefficient of variation for strength and deformation properties of clay Göran Sällfors	Bringing tech into geotechnics Kristin Paulsen	Early-phase modeling of lime-cement columns for more climate-friendly solutions? Nikolaj Børner Hansen	Hujeux-bc: a constitutive model for the cyclic behavior of biocemented soils Ziad Sahlab
	Unsaturated behavior of stabilized clay: assessment of low-carbon binders in a field study Anoosheh Iravanian	Alternative ways of modelling stabilized excavations Sinem Bozkurt	Optimization of ground investigations with the value of information analysis Ivan Depina	Strength reduction factors on lime-cement treated ribs due to random spatial variability and construction deviation Yutao Pan
	Three-dimensional effects in temporary excavations in soft clay Torbjörn Edstam	Effective peak friction angle, stress dependency and plane strain effects Niels Mortensen	Data assimilation in a hydrological landslide model with the ensemble kalman filter method Amirahmad Vakilinezhad	MASWavePy: A Python package for analysis of MASW-data Elin Asta Olafsdottir
	Design Of 15 Meter High Railway Embankment On Soft Clay Ibrahim Rashid / Fredrik Clifford	Generalisation of effective heave pressure considering the effect of small-strain stiffness Johannes Tornborg	Nordic Cooperation gives results Gunilla Franzén	Numerical analysis of soil nail walls combined with prestressed anchors André Arnold
	CC-test, clay cutting test Peter Hedborg	A study of saturation in piezocene devices Alena Zhelezova	Eurocode 7 a framework for the geotechnical engineer Gunilla Franzen	Challenges in determining ground conditions for design of water reservoir dams in the Aitik mine Thomas Larsson

15:00 SWEDISH FIKA - COFFEE BREAK SPONSORED BY



In **PASCAL at 15:10**: Presentation - Stenungsund the landslide - in English (30 min) during the coffee break

15:45 KEYNOTE SESSION CONFERENCE HALL

Keynote lectures:

Swedish speaker: Prof Minna Karstunen
Finnish speaker: Prof Leena Korkiala-Tanttu



END OF THE FIRST DAY 16:45 AND INSTRUCTIONS FOR THE BANQUET!



PROGRAM
20th of September

FRIDAY

NGM 2024
Nordic Geotechnical Meeting

08:30 KEYNOTE SESSION IN CONFERENCE HALL

Keynote lectures:

Danish speaker: Mr Ole Møller

Norwegian speaker: Mr Magnus Rømoen



09:30 SWEDISH FIKA - COFFEE BREAK

In the **Conference Hall**: Statistics short course with Prof Göran Sällfors - in English (20 min) during the coffee break

10:00	Conference Hall Sustainable Foundations	Pascal Handbooks and guidance	Tesla Challenges in the future	Kelvin Construction in Urban Areas
	Settlement analysis of embankment using foamed glass aggregate over a soft clay M Vinay Kumar	On the influence of system stiffness for numerical design approaches Hauke Jürgens	L-shaped gravity walls. Recommended practice for ULS Niels Mortensen	Numerical simulations using the cell method on soil plugging in open-ended piles in clays Philipp Wiesenthal
	Use of Leca-lightweight Aggregates in Railway Structure Ying-Ching Lin	Analyses of performed cpt tests in site with respect to the new standard Caesar Kardan	Spatial variability in lime-cement mixed clay at multiple length scales Vijayshree Sadasivan	Implementation of a new thermo-viscoplastic soil model using FEniCS platform Xiaoyang Cheng
	Resilient modulus of pavement material from pumice enriched with organic matter Natasa Katic	Byggeprospektingen_a tool for planning building pits Gunvor Baardvik	A novel technology for determining strength and reduce climate-gas emissions in deep soil mixed piles Tonje Eide Helle	AROS – The Next Level, 3D Modelling of swelling anchors Britta Søndergaard Heilmann
	Stabilization of sulfide-rich sediments with industrial side streams Thomas Kronberg	New Finnish national guideline: Sampling for geotechnical investigation Monica Löfman	Design methods for short slender steel piles in clay Jonas Stener / David Ebenhardt	Numerical modelling of biocementation upscaling experiment: insights from varied injection strategies S. E. ten Bosch
	Using wood-based by-products for improvement of quick clays – a laboratory study Priscilla Paniagua	Railway actions on embankments and retaining walls – Compatibility between Danish load models, load models in Eurocodes and TSI requirements Michael Rosenlund Lodahl	Tangenvika jernbanebru, installation of, and test piling of, large diameter, end bearing piles Ingunn Veimo /Kjetil Kildal	Piled foundation for the container terminal at Ydre Nordhavn Jakub Kania
	Evaluation of solidification/ stabilization technology performance by combining economic and environmental impacts assessment for a port in Sweden Elham Tamadonyazdian	Field vane test with new standard Panu Tolla	Effect of loading rate on the undrained limiting pressure of deeply-embedded pile Yuepeng Dong	Fenics simulation of artesian conditions in clay slope Kseniia Muratova



11:45 KEYNOTE SESSION CONFERENCE HALL

Keynote lecture:

Icelandic speaker: Jón Haukur Steingrímsson

12:15 LUNCH BREAK AND TIME TO EXPLORE THE EXHIBITION

In **PASCAL 12:45**: Presentation - Stenungsund the landslide - In Swedish (30 min) during the lunch break

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13:30	Conference Hall Construction in Urban Areas	Pascal Sustainable foundations	Tesla Challenges in the future	Kelvin Handbooks and guidance
	Excavations in soft soils: review of design approaches Gregor Portmann	Utilizing crushed concrete aggregate in the construction of roads and streets in accordance with Finnish new guidelines and regulation Suvi Ollikainen	Investigating swelling across scales Irene Rocchi	Correlating qnet to Eoed of Paleogene clays of very high plasticity Nik Okkels
	Deep foundation of station sofia - a feat of engineering in Stockholm Mikael Creütz	Numerical study of the thermal performance of energy micropiles in nordic region Melissa Fabiola / Yozy Kepadib	Soil behavior type classification for the Norwegian total sounding method Sigurdur Mar Valsson	Foundation on organic diatomite Jan Dannemand Andersen
	Monitoring requirements for large scale excavations in Gothenburg Matthias Ziegert / Anders Bergström	Where and how to execute sustainable soil improvement utilizing vibro replacement (stone columns) in the Nordics Nejla Yildiz-Helvacioglu	Methodology for sample preparation for quality control of stabilized dredged sediment Mohammadhossein Gholampoor	Assessing undrained shear strength in danish marine gyttja: insights from field vane tests and plate load tests Emil S. Brandt
	Geotechnical challenges in road project: cross-connection Södertörn Kenneth Viking	On the effect of injection parameters and techniques towards achieving homogenous soil bio-improvement: insights from a large-scale experiment Merih Büyüklü / Dimitrios Terzis		
14:45 - 15:00	Conference Hall Closing			

END OF NGM 2024 - safe travel home!

