

Presentations at the NGM 2012

1. Site investigations and laboratory testing

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| Deformation properties of highly plastic, fissured Paleogene clay – Lack of stress memory?, | Anette Krogsbøll |
| Design of groundwater control systems and retaining walls based on site investigation data and groundwater modelling, | Jeppe Rølmer Hansen |
| Difficulties Regarding Determination of Plasticity Index of Silty Soils by use of Casagrande and Fall Cone Methods, | Rikke Poulsen |
| Effect on Cone Penetration Rate in Dronninglund Silt Obtained by Field Test, | Rikke Poulsen |
| Engineering geological and soil mechanical data presentation in offshore wind farm site investigations, | Jens Galsgaard |
| Experience from multidisciplinary geophysical survey for tunneling in Norway Refraction seismic, resistivity profiling and borehole logging, | R Wisén |
| Failure geometry around the shear vane in soft sensitive clay, | Anders Samstad Gylland |
| Fehmarnbelt Fixed Link. Large Scale Testing, | Reto Schreier |
| Fehmarnbelt Conveying Geotechnical Knowledge, | Jens Kammer |
| Geotechnical and Hydrogeological Site Investigations for Cityringen, | Jesper Furdal |
| Geotechnical Classification of Danish Eocene Clay, | Gitte Lyng Grønbech |
| Geotechnical Theme Portal – from field investigations to standardized WMS Web Map Services, | Mats Oberg |
| Har lermineralsammensætningen i fede, danske lerer betydning for funderingen?, | Helle Trankjær |
| High resolution shear-wave seismics for geohazard assessment in the Trondheim Harbor area, Central Norway, | Jean-Sebastien L'Heureux |
| Kartering av kvicklera utifrån CPT- och trycksondering, | David Schälin |
| Modeling of rock stratigraphy from geophysical bore logs, | Sara Johansson |
| Nordhavnsvej, Integrated Geotechnology, | Kristoffer Vrang |
| P- and S- wave Vertical Seismic Profiling: Case study from Copenhagen Cityringen metro site investigations, | Kerim Martinez |
| Particle shape by two-dimensional image analysis in geotechnical engineering, | Juan Rodriguez |
| Planning and execution of a full scale measurement campaign on monopile support structures for offshore wind turbines, | Dan Kallehave |
| Possibilities with application of geophysics in geotechnical site investigation, | Mette Ryom Nielsen |
| Prediction of unconfined compressive strength by ultrasound testing, | Samir Ezziyani |
| Probabilistic Description of a Clay Site using CPTU tests, | Sarah Andersen |
| Probabilistic Description of a Sand Site using CPTU Tests, | Kristoffer Lauridsen |
| Review of the interpretation of consolidation tests, | Gitte Lyng Grønbech |
| Seismic investigations for planned Cityringen metro line, Copenhagen, Denmark, | Kerim Martinez |
| Stor SGI-provtagare för lös och sensitiv lera, | Helen Åhnberg |
| Södertunneln in Helsingborg, Sweden, preinvestigation methodology and visualization, | Henrik Möller |
| Testing of ground anchors in danien limestone for tie down of new maritime museum in Elsinore, Denmark, | JC Philipsen |

2. Design parameters and modelling

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| 3D Stability Analysis of a Full-scale Embankment Failure Experiment, | Juho Mansikkamäki |
| A best practice for geotechnical classification of permafrost in the Nordic countries. A discussion of present procedures and suggestions towards a common approach., | Frederik Agergaard |
| A Critical appraisal on the definition of brittle material (Sprøbruddmateriale), | Vikas Thakur |
| An Innovative Physical Model for Testing Bucket Foundations, | A Foglia |
| Case Study of CPT-based Design Methods for Axial Capacity of Driven Piles in Sand, | Kristina Thomassen |
| Cretaceous Chalk at the Fehmarnbelt Fixed Link Site, | K. A. Andreassen |
| Earth pressures against- and stability of retaining structures, | Sigurður Valsson |
| Excess pore pressure approximation in undrained effective stress stability calculations using LEM, | Ville Lehtonen |
| Fehmarnbelt Fixed Link. A geological model mainly based on geotechnical parameters., | John Frederiksen |
| Fehmarnbelt, CPTU in clays of Palaeogene origin, | Gert Laurits Hansen |
| High plasticity Palaeogene clay; A clay with a very moderate long-term memory., | Niels Mortensen |
| Improved finite element simulations for interpretation of cone penetration test results, | Priscilla Paniagua |
| Liquefaction Susceptibility of Silty Soil, | Jane Lysebjerg Friis |
| Model depended impact on forces in tied down structures, | JC Philipsen |
| New failure condition to estimate the "long term strength parameters" (effective strength parameters) in clay., | Kirsten Luke |
| Numerical modelling of negative pore water pressures - influence of water retention parameters, | Rebecca Bertilsson |
| Prediction of compression index for clays, | Jan Dannemand Andersen |
| Reliability-based calibration of partial factors for design of Rail-way embankments, | M Lodahl |
| Selection of geotechnical stiffness parameters for clay tills in the Copenhagen area, | Carsten Lyse |
| Small-scale testing of laterally loaded non-slender piles in a pressure tank, | S. P. H. Sørensen |
| Small-Scale Testing Rig for Long-Term Cyclically Loaded Monopiles in Cohesionless Soil, | Hanne Ravn Roesen |
| Some aspects on creep and primary deformation properties of soft sensitive Scandinavian clays, | Tim Länsivaara |
| Strength Models for Clay based on Triaxial Testing, | KM Iversen |
| Study on basic material properties of artificial snow, | Nina Lintzén |

3. Shallow and deep foundations

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| A snapshot of present research at AAU and DTU of large-diameter piles in coarse-grained materials, | Caspar Thrane Leth |
| Dynamic load testing of large diameter steel pipe piles, case studies., | Teemu Repo |
| Fehmarnbelt, installation and testing of driven steel tube piles and bored cast-in-place concrete piles", | Rami Hammami |
| Full-scale testing on drilled grouted piles, | Johan Olovsson |
| Instability during Installation of Foundations for Offshore Structures, | Søren Madsen |

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| Kåfjordbrua og Bommestad bruer – ramming av stålrørspeler i faste masser, | Kristian Aunaas |
| New drilling tools for hard rock, | G. Ulrich |
| Three cases of heave of buildings constructed on clay in Denmark, | Nik Okkels |
| Time-dependent capacity of driven piles in high plasticity clay, | Kenny Kataoka Sørensen |

4. Deep excavations and retaining structures

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| A 25 m Deep Secant Piled Shaft in Quick Clay, | T Føyn |
| Active pressure field behind of a multi – anchored flexible wall, | Ampeglio Garini |
| Cellespuntaier for ekstremelaster./Cellular cofferdams – designed for extreme load situations., | Jarle Nestvold |
| Design of retaining walls considering compatibility of strains, | JC Philipsen |
| Geotechnical aspects of a permanent secant-pile retaining wall in a two-storey underground garage at bagers plats, Malmö, | Kristy Heng |
| Levetidsforlængelse af Ensted Kulhavn, | Helle Trankjær |
| Operakvarteret Bjørvika Felt B13 – Etablering av byggegrop, | Arne Eigeland |
| RD-pile wall – A new retaining wall for demanding soil conditions, | Harald Ihler |
| The Arctic Circle - a case story, | Susanne Granhøj |
| Vertical equilibrium of sheet pile walls, | MA Jørgensen |

5. Tunnelling and underground structures

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| Challenges in Mechanized Tunnelling Technology, | Karin Bäckler |
| Malmø Cuty tunnel Project. Groundwater management at Holma ramp, | Per Beck Laursen |
| The Influence of Ground Conditions on the Planning and Design of Tunneling in an Urban Environment., | D Whittles |

6. Slope stability and landslides

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| Klimatförändringens påverkan av portryck i Göta älvdalens lerslänter, | Håkan Persson |
| Landslide consequence analysis – valuing consequences and mapping expected losses in the Göta river valley, | Stefan Falemo |
| Mesochora village soil conditions and landslide phenomena, | Dimitris Lambropoulos |
| Natural Disasters in a Changed Climate - Methodology for Planning and Adaption to Climate, | Jan Fallsvik |
| Stability analyses of quick clay using FEM and an anisotropic strain softening model with internal length scale, | Gustav Grimstad |

7. Infrastructure projects

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| FV 78 Holand-Drevja: 13 km road through quick clay area in northern Norway, | Per Arne Wangen |
| Kulvertkryssing under trafikkerte baner innen 72 timer. Prosjektering og utførelse., | Lars Mørk |
| The bump at the end of the bridge, | Kristian Aunaas |

8. Ground improvement

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| Attenuation structures of railway induced vibration, case Raunistula – studied effects based on vibration measurements - and residents' experiences, | Johanna Hellberg |
| Bygging av vegfyllinger i dårlige grunnforhold ved hjelp av massefortrengning., | Bjørn Kristoffer Dolva |
| Chemical stabilisation with cement in old landfill, | Malin Rosander |
| Langtidseffekt af kalkstabiliseret ler på testfelter, | Morten Vanggaard |

9. Environmental geotechnics

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| ABSOILS - Sustainable methods for utilisation of low-quality soils in construction, | Susanna Ollila |
| Controlled Treatment of TBT-contaminated Dredged Sediments for Beneficial Use in Infrastructure Applications, | Noora Lindroos |
| Development of a tool for evaluating the sustainability of remediation alternatives, | Jenny Norrman |
| Energy piles - geothermal energy collection system integrated to the steel foundation piles, | Veli-Matti Uotinen |
| Foundry green sand as a landfill barrier – quality control, | Malin Sundsten |
| SMOCS - Sustainable Management of Contaminated Sediments in the Baltic Sea, | Noora Lindroos |
| Soils treatment with hydraulic binders : physicochemical and geotechnical aspects, | Lucile Saussaye |
| Stabilisation as an alternative for mass exchange for clays with high sulphide content, | Noora Lindroos |
| Sustainable, Environmental Treatment and Reuse of Marine Sediments, | Farouk Ben Abdelghani |
| Utilisation of oil shale ashes in road construction, | Marjo Ronkainen |
| Wide-scale usage of fly ash in improvement of deteriorated roads., | Olli Kiviniemi |