



The Tømte Symposium October 24th 2022
Quick clays – geological constraints and occurrences - Rosenqvist tribute

The Norwegian Academy of Science and Letters, Drammensveien 78, 0271 Oslo

09.30-10.00 *Coffee*

10.00 -10.15 **Welcome**

Per Aagaard, University of Oslo

Introduction

10.15 -10.35 Ellen Davis Haugen, NVE

"Quick clay slide hazard – the value of combined geological and geotechnical data"

10.35 -10.55 Inger Lise Solberg, NGU

"NADAG – a national database for ground investigations"

Depositional environment and characteristics of postglacial marine clays

10.55 -11.55 "Paleoenvironmental conditions favoring the accumulation of (glacio)marine clays in Norwegian fjord valleys"

Louise Hansen, NGU

11.15 -11.35 "Sedimentological characteristics of glaciomarine clays"

Jens Jahren, University of Oslo

11.35 -11.55 *Coffee*

Micro structures of quick clays and colloid chemical studies

11.55-12.15 "Strategies in quick clay mapping"

Tor Løken

12.15 -12.35 "Geochemistry of quick clays"

Tonje Helle, Multiconsult

12.35 -12.55 "Microstructural studies of quick clays"

Helge Hellevang, University of Oslo

12.55-13.55 *Lunch*

Hydrogeological constraints for developing sensitive clay.

13.55 -14.15 "Hydrogeological considerations"

Per Aagaard, University of Oslo

14.15-14.35 "Geostatistical estimation of bedrock topography as a tool for risk assessment of sensitive clays"

Nils-Otto Kitterød, NMBU

Geophysical tools for mapping potential for quick clays.

14.35-14.55 «Geophysical tools for mapping potential for quick clays.»

Sofie Gradman, NGU



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14.55-15.15 *Coffee*

15.15-15.35 *"Identification of quick clay using electrical resistivity methods"*

Mike Long, University College Dublin

15.35-15.55 *"Ultra high-resolution multicomponent seismic characterization of quick-clay settings "*

Alireza Malehmir, Uppsala University

15.55-16.15 *"Unlocking the value of geophysical and geotechnical data through machine learning illustrated by quick clay volume delineation based on airborne geophysics, lab samples and totalsoundings"*

Andreas Pfaffhuber & Craig Christensen, EMerald Geomodelling

16.15-16.30 *Coffee*

Stability and initial triggering of quick clay slides

16.30-16.50 *"Geotechnical slope stability considerations: Relevance for understanding initiation of quick clay slides"*

Steinar Nordal, NTNU

16.50-17.10 *"Landslides in quick clays area – hazards and mitigating measures"*

Håkon Heyerdahl; NGI

17.10-17.30 *Other geochemical stabilization methods*

"Chemical stabilization of quick clay - a new approach"

Håkon Gunnar Rueslåtten, NGU

Break

17.30-18.00 ***Panel discussion***

19.00 *Dinner for invited guests*