

International Conference on Advances and Innovations in Soft Soil Engineering



24 – 26 August 2026

Delft, the Netherlands



Preface

This collection gathers the extended abstracts presented at the *International Conference on Advances and Innovation in Soft Soil Engineering*, held in Delft, the Netherlands, in August 2026. The contributions address the full range of key topics and methodologies in soft soil engineering: material behaviour, as observed in the laboratory and in the field; modelling approaches from traditional methods to machine learning techniques; and soil improvement and the transfer of knowledge into practice. Another ninety contributions were submitted as full papers and are published on the E3S Web of Conferences.

The event was promoted by Technical Committee TC214 on Soft Soils of the International Society of Soil Mechanics and Geotechnical Engineering, and follows the International Conference held in Vancouver in 2006. Two decades after that meeting, there was a strong need to bring together researchers and practitioners to share knowledge, discuss advances and innovations, and tackle the open challenges in soft soil engineering. The need for *soft soil engineering* arises from the difficulties these materials pose in terms of representative sampling, reliable testing and comprehensive, yet practical, modelling. The contributions show how, owing to their fabric and organic components, these soils are particularly sensitive to multiphysics processes, whose effects are amplified by growing climate pressure. To address both long-standing and emerging issues, considerable attention is given to ground improvement techniques, with an eye on low-carbon solutions.

All published contributions were selected through a rigorous peer review process, and we are deeply indebted to the reviewers for their role in ensuring the quality of the collection. We warmly thank our Editorial Board colleagues and the Authors for their vital contribution to the success of this scientific initiative, and we acknowledge the support given to the conference by the ISSMGE and by KIVI, the Royal Netherlands Society of Engineers.

Cristina Jommi
Stefano Muraro

Delft, 30 July 2026

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TC214 ISSMGE Committee on Soft Soil Engineering

The ISSMGE Technical Committee TC214 on "Foundation Engineering for Difficult Soft Soil Conditions" plays a central role in advancing knowledge and practice in soft soil engineering. TC214 brings together practitioners and academics from around the world to foster collaboration and exchange of experience, knowledge, and new ideas. Its activities span the full spectrum of soft soil challenges, from the characterisation of difficult soils such as sensitive clays, peats, and organic deposits to the prediction of soil behaviour and the development of ground improvement solutions. Through workshops, symposia, and international conferences, TC214 continues to bridge research and engineering practice in one of the most demanding fields in geotechnical engineering.

KIVI Koninklijk Instituut Van Ingenieurs

The Royal Netherlands Society of Engineers (KIVI) is the leading professional association for engineers in the Netherlands, representing a community of over 13,000 members since its founding in 1847. Through its diverse network of more than 50 specialised sections, KIVI supports engineers at every stage of their careers, offering cutting-edge professional development tools, internationally recognised qualifications, and over 400 events annually - from lectures to technical workshops.



Table of contents

Field and Laboratory Testing

- C1.01 **DMT measurements in saturated loess silts as an example of “niche silts” with partial drainage condition** — *Krzysztof Nepelski, Malgorzata Tomaszek*
- C1.02 **Development of a new hollow cylinder apparatus for seismic torsional shearing in the laterally constrained condition** — *Wen-Jong Chang, Chia-Han Chen, Yu-Kai Chen*
- C1.03 **Hollow cylinder tests on natural structured soft clay: effects of sampling and sample preparation** — *Sebastian Mendez Velasquez, Jubert Pineda, Kaiwen Ouyang, George Kouretzis, David Potts*
- C1.04 **Back pressure saturation techniques for tropical fibrous peat in constant rate of strain consolidation tests** — *Ayu Prativi, Louis Ge, Yu-Chiao Wang, Yudhi Lastiasih, Noor Endah Mochtar*
- C1.05 **Hydraulic conductivity assessment of tropical fibrous peat using CRS consolidation** — *Yu-Chiao Wang, Ayu Prativi, Louis Ge, Yudhi Lastiasih, Noor Endah Mochtar*
- C1.06 **Experimental investigation on heat transfer law of multiple freezing pipes in permeable stratum with high seepage velocity** — *Bin Wang, Chuanxin Rong, Zhishu Yao, Bin Tang, Haiqing Song*

Multiphysics Behaviour

- C2.01 **Experimental characterisation of Eckalite-1 Australian kaolin** — *Lucian Canales Brenlla, Frederik Koch, Merita Tafili, Luis F. Prada-Sarmiento, Torsten Wichtmann*
- C2.02 **Salinity effects on the behaviour of Eckalite Australian kaolin clay** — *Zahra (Parisa) Khodaverdlou, Wiebke Baille, Luis Felipe Prada-Sarmiento, Merita Tafili, Torsten Wichtmann*
- C2.03 **Time-resolved effects of electrolyte chemistry on kaolinite consistency: toward a kinetic, DLVO-informed interpretation** — *Kabiru Adebayo, Ken Vinck, Angela Casarella, Catherine O' Sullivan*
- C2.04 **Nanoscale observations of leaching of sensitive clay** — *Dorsa Saaedifar, Angela Casarella, Stephen Hall, Jelke Dijkstra*
- C2.05 **Temporal evolution of dry-mixed soft sensitive clays** — *Vijayshree Sadasivan, Arezou Babaahmadi, Jelke Dijkstra*
- C2.06 **Interpretation of recompression of peats after unloading based on strain rate- and temperature- effect** — *Taishi Kochi, Satoshi Nishimura*
- C2.07 **Influence of cyclic loading on the secondary consolidation behavior of peats** — *Yosuke Yoshino, Taishi Kochi, Satoshi Nishimura*

- C2.08 Anisotropy in permeability of peats in context of vacuum consolidation by vertical drains** — *Satoshi Nishimura, Shuntaro Tada, Nobutaka Yamazoe*
- C2.09 Post-cyclic shear behavior of clayey soil – effects of pore water pressure build-up and reconsolidation** — *Masahide Otsubo, Itsuki Sato, Rawiwan Sukhumkitcharoen, Ooki Kurihara, Hidenori Takahashi*
- C2.10 Deterioration of the bentonite sand mixture material due to thermal hydro chemical activity** — *Tomoyoshi Nishimura*
- C2.11 A simplified approach to evaluating slope stability under freezing–thawing cycles in soft soils** — *Ayman Abed*
- C2.12 Influence of grain shape on the liquefaction susceptibility of natural sand soils – a methodological approach** — *Flora Feitosa Menezes, Gundula Erdmann, Maike Gröeschke*
- C2.13 Low strain dynamic soil properties and maximum shear modulus equation of rubber sand mixtures** — *Tapan Suiyal, B.K. Maheshwari*
- C2.14 Gas entrapment and migration in deltaic soils containing biogenic methane: challenges for site investigation and volume estimation** — *Dani Tarragó, Enrique Romero, Antonio Gens*
- C2.15 Relevance of non-uniform dissolved gas concentration in testing gassy soils** — *Man Xu, Cristina Jommi, Stefano Muraro*
- C2.16 Preferential gas pathway formation in Boom Clay under isotropic stress** — *Salar Lakimhallelh, Laura Gonzalez-Blanco, Enrique Romero*
- C2.17 Hydro-mechanical behaviour of compacted soils with a pronounced natural multi-modal pore structure** — *Diones Uiliam Barboza, Laura González Blanco, Enrique Romero, Wai Ying Yuk Gehling, Washington Peres Núñez, Patrícia Rodrigues Falcão*
- C2.18 Limitations of Terzaghi consolidation theory in soft soil practice** — *William David Carrier*

Constitutive, Numerical, and Machine Learning Modelling

- C3.01 An elastoplastic model for cohesionless soils over a wide stress range** — *Linlong Mu, Shunwei Wang, Guangming Yu*
- C3.02 A new constitutive model for natural deposit clays: development and verification** — *Weiyi Wang, Wenxuan Zhu, Guanlin Ye, Feng Zhang, Hehua Zhu*
- C3.03 Modelling destructuration of sensitive clays** — *Yang Yu, Ayman Abed, Minna Karstunen*
- C3.04 Implementation of an unsaturated anisotropic clay model (JMC-Clay) in the coupled hydro-mechanical framework of CODE_BRIGHT** — *Ching-Yu Chao, Stefano Muraro, Cristina Jommi*
- C3.05 Insights on the role of fibres in the laboratory testing of peat** — *Luis José Parra-Gómez, Cristina Jommi, Stefano Muraro*

- C3.06 Application of a new shallow subsurface deformation model to subsidence in the Groningen reservoir region, Netherlands** — *Yuta Hiruma, Tom de Gast, Esther Stouthamer, Rob Govers*
- C3.07 Numerical Investigation of strain localization in heterogeneous soft clay under undrained condition** — *Mona Siahkouhi, Franz Tschuchnigg, Gertraud Medicus, Barbara Schneider-Muntau*
- C3.09 Numerical simulation of ground frost heave during tunnel construction with pipe curtain freezing method** — *Haiqing Song, Haibing Cai, Rongbao Hong, Zhishu Yao*
- C3.10 Segmentation and morphological characterisation of clustered kaolinite clay minerals using deep learning** — *Theo Örtendahl, Angela Casarella, Jelke Dijkstra*

Ground Improvement and Low-Carbon Solutions

- C4.01 Effects of LC3 on the unconfined compressive strength of clay soils** — *Yeşim Sema Ünsever, Öznur Biricik Altun*
- C4.02 Humic matter as a challenge in deep soil mixing of soft organic soils** — *Michelle Bodner (Döbber), Frank Rackwitz*
- C4.03 Halving the emissions in Malminkenttä via test structures and low-carbon geotechnical solutions** — *Mirva Koskinen*
- C4.04 Chlorine fixation by aluminate minerals in coastal chloride saline soil modification as subgrade material** — *Tianqi Wei, Hao Dai, Zi Ying, Yongfeng Deng*

Infrastructure Performance and Monitoring

- C5.01 Influence of soft subgrade conditions on derailment risk** — *Chihping Kuo*
- C5.02 Application of line loads versus block loads for railway embankment stability assessment** — *Mark Post, Fabian Campos Montero, Timo Schweckendiek, Edward de Jong, Arnold Kleinjan*
- C5.03 Ground improvement design for a 12m high and rapidly constructed highway embankment** — *Anass Attya, Sarah d'Agostino, James McIntosh, Krishna Neaupane*
- C5.04 Structural capacity of slender piles in very soft clay** — *Anders Jonefjäll, Åke Andersson, Jelke Dijkstra*
- C5.05 A simplified modelling approach for the analysis of port quay-walls with relieving platform** — *Federico Montali, Ozan Alver, Cristina Jommi, Kenneth Gavin, Luca Flessati*
- C5.06 Effect of fins on the pull-out response of model torpedo anchor embedded in soft clay** — *Ahmad M.M. Sabbah, Nandyala D. Kumar*
- C5.07 Centrifuge modelling of Dutch railway embankments on soft clays: the RESET experimental program** — *Cihan Cengiz, Cor Zwanenburg, Timo Schweckendiek, Alexander van Duinen, Mark Post, Agnes van Uitert, Stefano Muraro, Maryam Hallaj, Cristina Jommi*