Program Guide

ICPMG 2026

11th International Conference on

Physical Modelling in Geotechnics

08-12 June 2026, Zurich, Switzerland

Technical Committee 104
International Society of Soil Mechanics
and Geotechnical Engineering ISSMGE


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Welcome

The 11th International Conference on Physical Modelling in Geotechnics 2026 in Zurich on the ETH Zurich Campus Hönggerberg

It is our great pleasure to welcome you to ICPMG 2026 in Zurich. The conference brings together researchers, professionals, and students from around the world to exchange ideas and present the latest developments in geotechnical engineering.

We sincerely thank the Local Organizing Committee, the Steering Committee, the Senior Advisory Panel, the International Scientific Committee and the international geotechnical community for their dedication and hard work in making this event possible.

We wish you an inspiring and rewarding conference, as well as a memorable stay in Switzerland. Please enjoy ICPMG 2026!

Professor Ioannis Anastasopoulos
Chair of ICPMG 2026, TC104

Contents

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The Organizing Committee gratefully acknowledges the sponsors and exhibitors for their generous financial support of the 11th International Conference on Physical Modelling in Geotechnics. Their valuable contributions are essential to advancing physical modelling in geotechnics and to the success of this conference.

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NGCF National Geotechnical Centrifuge Facility

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SIMSG ISSMGE

IGT Institut für Geotechnik Institute for Geotechnical Engineering

The ICPMG 2026 is held under the auspices of the Technical Committee on Physical Modelling (TC104) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). www.issmge.org

Committees

Conference organized by

Chair of Geotechnical Engineering
Institute for Geotechnical Engineering
D-BAUG
ETH Zurich
Stefano-Franscini-Platz 5
8093 Zurich, Switzerland
icpmg2026@ethz.ch
https://tc104-issmge.com/icpmg-2026/

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The ICPMG 2026 LOC is grateful that so many distinguished geotechnical engineers have agreed to contribute to this ISSMGE sponsored conference.

Overview

Date

08-12 June 2026

Conference Location

ETH Zürich,
Campus Hönggerberg, HPH Building,
Zurich, Switzerland
https://tc104-issmge.com/icpmg-2026/
www.ethz.ch

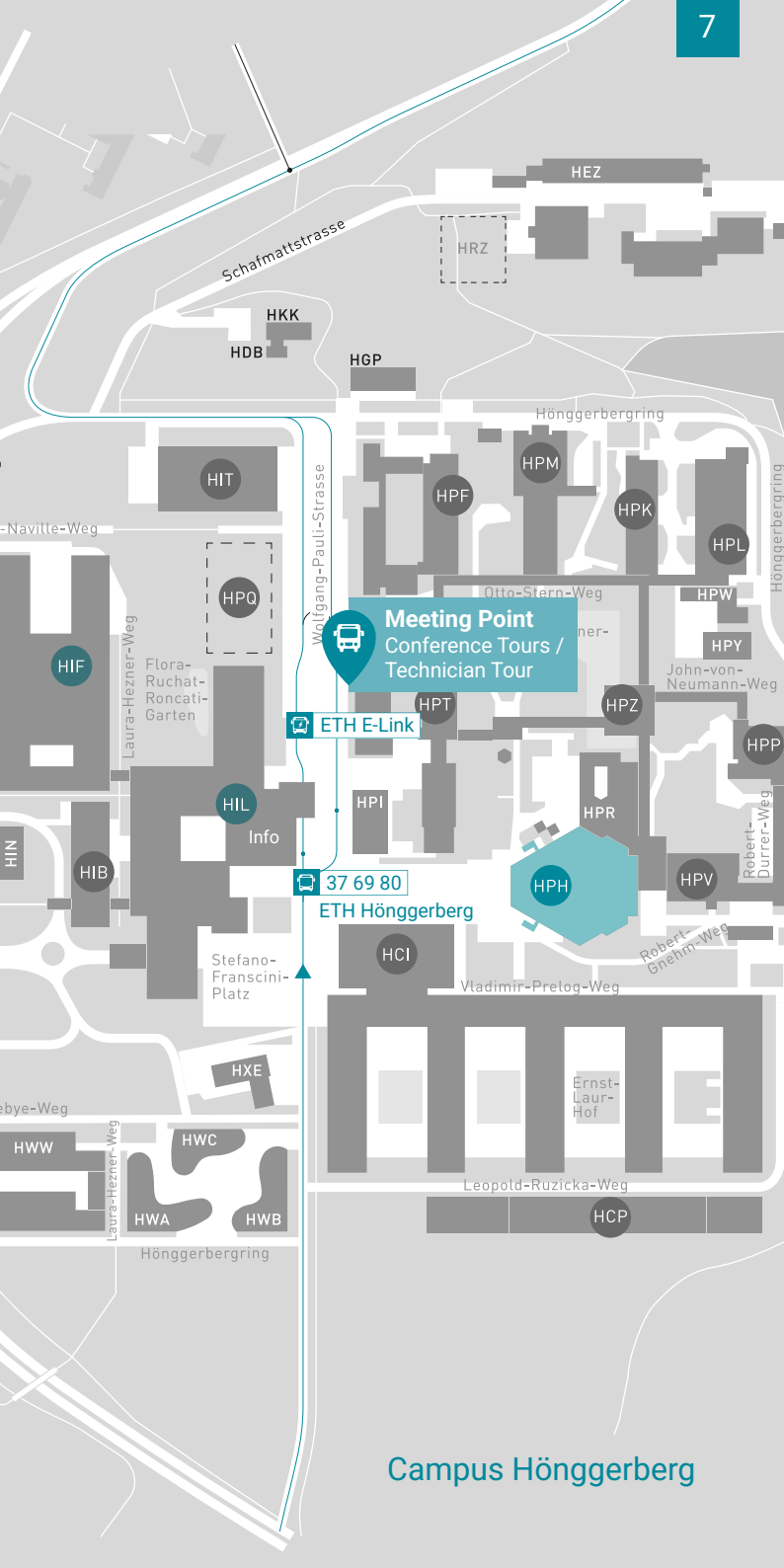
Registration Desk

HPH Building, Foyer, Opening Hours
08 June 12.00-19.00
09 & 10 June 08.00-18.00
11 June 08.30-17.00
12 June 07.45-11.00

Social Events

Ice Breaker 08 June
17.30-19.00
HPH Building, Foyer

Gala Dinner 10 June
19.15-22.30
LAKE SIDE
Bellerivestrasse 170, Zürich

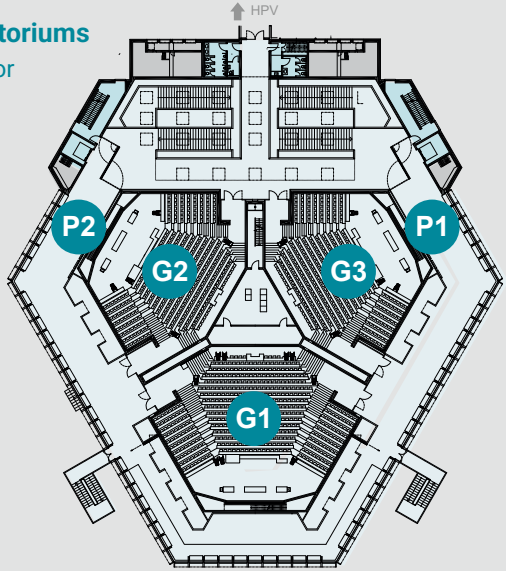


Campus Hönggerberg

HPH Building

HPH Foyer
D floor

Auditoriums
G floor



Registration · Catering · G1-3 Auditoriums · Upload Presentations · P1-2 Pitch Stations

Campus Hönggerberg

Campus Internet Access

The Campus Hönggerberg is equipped with WLAN. Connect to WLAN *eth-visitors* and follow the instructions for *Login* of *ETH visitors*.

Campus Opening Hours

07.00-20.30

Emergency Contact during Conference

Mobile: +41 76 438 3854
Mobile: +41 79 283 0675

Parking

Please visit Mobility online or scan the QR code.

Lost and found

Info + Service Center
Building HIL, D25.1

Transportation

Public Transport in Zurich

Zurich Transport System: www.zvv.ch

Swiss Railway Company: www.sbb.ch

A Half Fare Travelcard soon pays its way, since you can enjoy half-price travel throughout Switzerland. Information at www.sbb/travelcards.

Getting to the Venue

From Zurich Airport (ZRH)

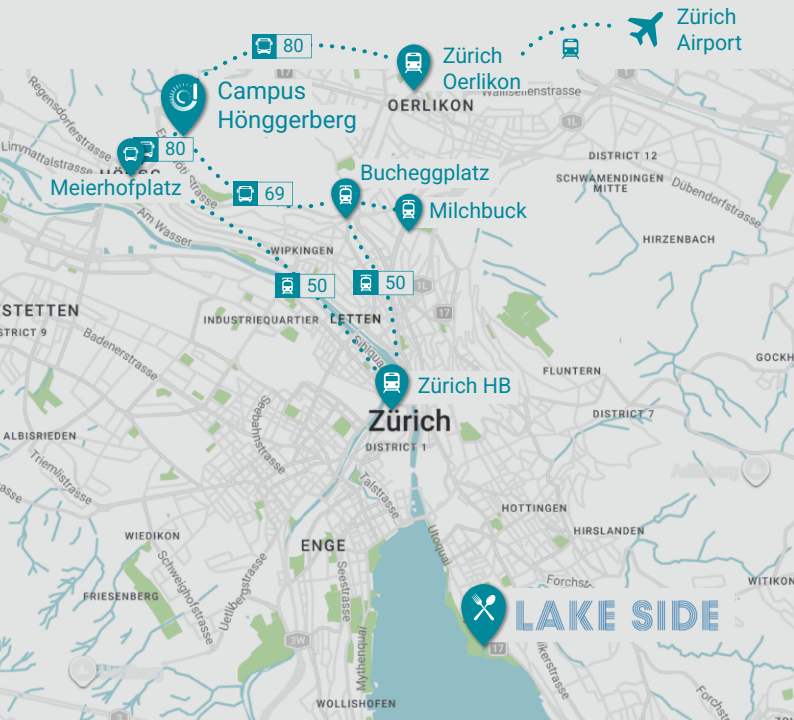
Train to Zurich Oerlikon, then bus 80 to ETH Hönggerberg.

From the Main Train Station (Zurich HB)

Tram 50 from Sihlquai/HB to either Bucheggplatz or Meierhofplatz, then bus 69 resp. bus 80 to ETH Hönggerberg.

From ETH Main Campus to Venue

ETH E-Link shuttle bus either from ETH Main Building (Polyterrasse underpass) or bus stop Haldenegg.



General Info

Information about Zurich

Zürich Tourism: www.zuerich.com
Hauptbahnhof (at the main station)
Phone +41 44 215 40 00

Information about Switzerland:
www.myswitzerland.com

Climate in June

13-23°C/55-74°F

Currency

Swiss Francs CHF

Conference Structure

Main Sessions

Plenary Sessions
Parallel Sessions
Pitch Sessions

HPH Building
Auditoriums G1, G2, G3
Pitch Stations P1, P2
(outside the auditoriums)

Events

Technicians' Program
09 & 10 June
11.00-12.30, HIF C80
15.30-17.00, Centrifuge

Meeting Point:
10.45 and 15.15 at the Registration Desk, HPH Foyer

Technicians' Excursion
11 June
09.00-12.45
Keller Pressure, Winterthur

Meeting Point: 08.45 Bus Stop, ETH Zurich, Hönggerberg

TC 104 Meeting
08 June
12.30-15.00, HIL H35.1
15.30-17.30, Centrifuge

Schofield Lecture
09 June
17.00-17.45
Reception, HPH Foyer
17.45-19.00
Lecture, HPH Building G1

Exhibitions

Campus Hönggerberg, HPH Foyer

A variety of exhibitors will present during the conference within the main Foyer of the HPH building. This will be close to the conference auditoriums, pitch stations, coffee break areas and main restaurant.

Please visit these exhibitors and their booths at anytime during the conference.

Conference Tours

Conference Tour 1
12 June
09.30-ca. 18.45
Spitallamm Dam, Grimsel

Guided Tour offered by Kraftwerke Oberhasli KWO. Registration required. Limited to 50 pax.

Meeting Point: 09.15 Bus Stop, ETH Zurich, Hönggerberg

Conference Tour 2

12 June

09.00-ca. 16.15

VersuchsStollen (The Hagerbach Test Gallery), Flums

Guided Tour offered by VersuchsStollen Hagerbach. Registration required. Limited to 50 pax.

Meeting Point: 08.45 Bus Stop, ETH Zurich, Hönggerberg

Other Events

Centrifuge Lab Tours

10-12 June

Registration required.

Please follow the instructions at the registration desk and consult the website.

Meeting Point: Registration Desk

Free City Tour Zurich

10-12 June

Registration required.

Please consult the Schedule Overview for exact times.

Meeting Point: Polyterrasse at Campus Zentrum

Best use the eLink (ETH E-Link shuttle bus), ca. 16 minute travel time. Departure time Hönggerberg: .14/.34/.54

Accompanying program

See ICPMG website.

On-Site Registration

Please check at the registration desk for available spots on the tours and the gala dinner.

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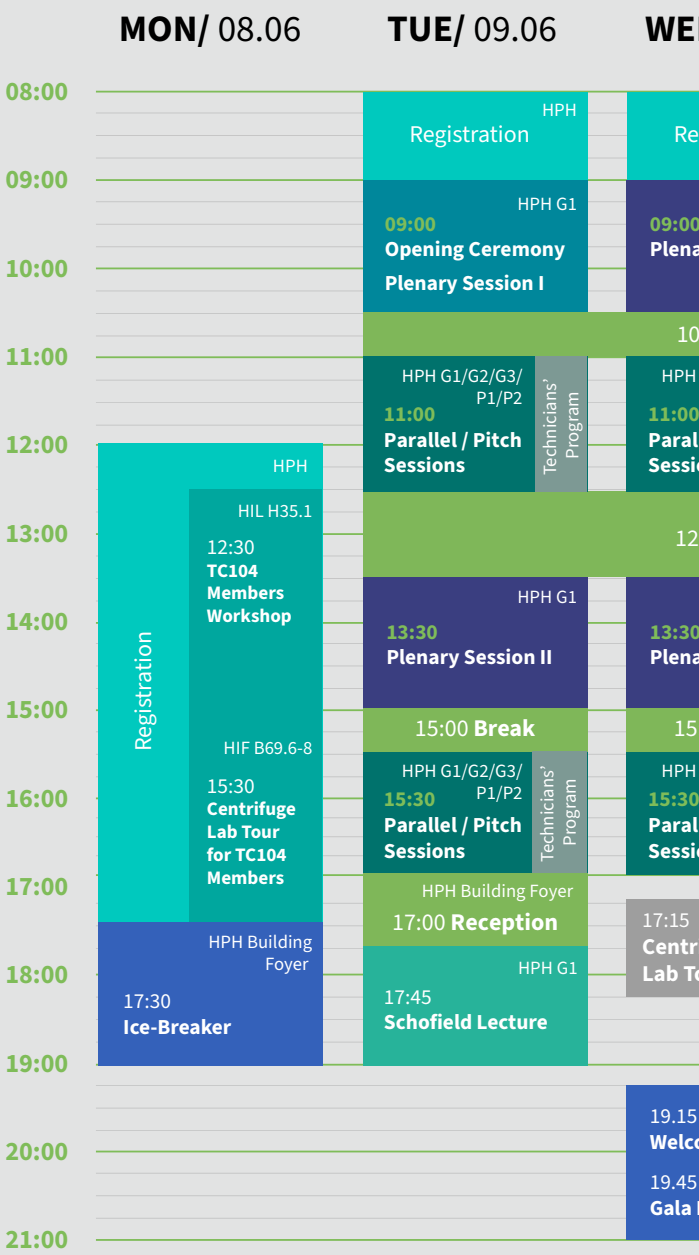
Schedule Overview



D/ 10.06 **THU/** 11.06 **FRI/** 12.06

HPH
gistration

HPH G1
ry Session III

:30 **Break**

G1/G2/G3/
P1
lel / Pitch
ons

Technicians' Program

:30 **Lunch**

HPH G1
ry Session IV

:00 **Break**

G1/G2/G3/
P1
lel / Pitch
ons

Technicians' Program

ifuge
our

17:45
Free City Tour Zurich

Lake Side
ome Drink
Dinner

Registration

HPH G1
09:00
Plenary Session V

Technicians' Program / Excursion

HPH G1/G2/G3/
P1/P2
11:00
Parallel / Pitch Sessions

HPH G1
13:30
Plenary Session VI

15:00 **Break**

HPH G1/G2/G3/
P1/P2
15:30
Parallel / Pitch Sessions

17:00 HPH G1
Closing Ceremony

17:30
Centrifuge Lab Tour

18:15
Free City Tour Zurich

08:00
Centrifuge Lab Tour

09:00

09:30
Centrifuge Lab Tour

10:30
Free City Tour Zurich

Conference Tour 1
09:30-18:45

Conference Tour 2
09:00-16:15

Conference Sessions

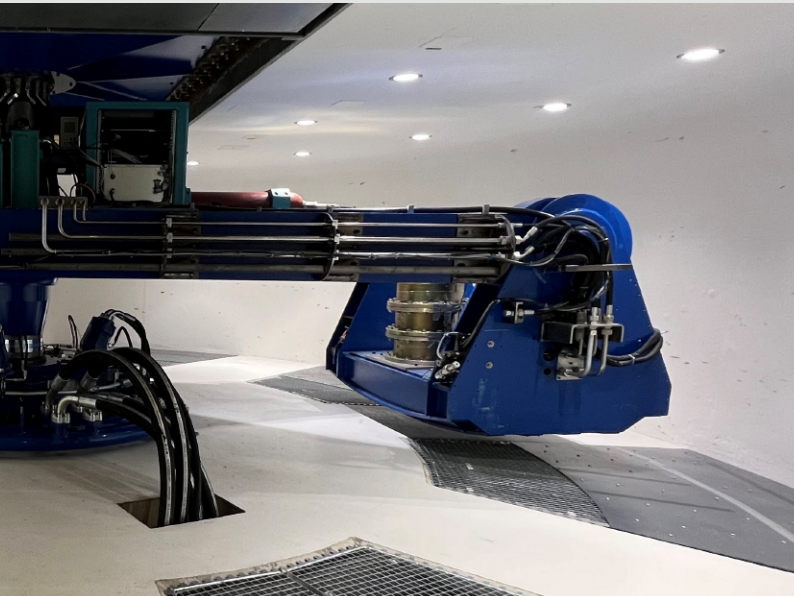
The conference aims to provide a dynamic forum for academics, engineers, researchers, technicians and students, where the latest developments in modelling techniques, technologies, similitude laws, and all other aspects of physical modelling in geotechnics will be discussed.

Themed Sessions

1. New facilities, new equipment, and measuring techniques
2. Scaling laws and fundamentals
3. Resilient geotechnical infrastructure
4. Sustainability in geotechnical systems
5. Energy geo-structures and foundation systems
6. Onshore and offshore foundation systems

Special Sessions

1. Physical modelling – from practice/industry to academia
2. Seismic behaviour of offshore foundations from dynamic centrifuge testing
3. Physical modelling of installation of fixed OWT foundations
4. Innovative methods for offshore foundation installation
5. Combination of numerical and physical modelling
6. Physical modelling for life-cycle foundation management
7. Geotechnical seismic isolation based on sustainable geomaterials
8. Nature-based solution for sustainable geotechnical systems
9. Physical modeling for cryosphere applications
10. Liquefaction experiments and analysis projects – lesson learned from LEAP-Asia-2025
11. Underground structures in liquefiable ground



Monday **08 June**

HPH Foyer, Registration Desk

12.00-19.00
Registration
Campus Hönggerberg, HPH Building,
Joseph-von-Deschwanden-Platz 1

12.30-15.00 **HIL H35.1**
TC104 Meeting

HPH Building Foyer

17.30
Ice-Breaker

General Detailed Program

Technicians' Program (scroll down)

Tuesday **09 June AM**

08.00 – 18.00 Registration

Campus Hönggerberg, HPH Building, Joseph-von-Deschwanden-Platz 1 — **HPH Foyer Registration Desk**

09.00 – 09.25 Opening Ceremony — **HPH G1**

Dr. A. McNamara, City University, Secretary General ISSMGE

Prof. U. Weidmann, ETH Zurich, VP Infrastructure and Sustainability

Prof. A. Puzrin, ETH Zurich, President of Swiss Geotechnical Society

Prof. I. Anastasopoulos, ETH Zurich, Chair of TC104, ICPMG 2026

09.25 – 10.30 Bright Spark Awards — **HPH G1**

09.25–09.30 Introduction Awards
Prof. I. Anastasopoulos, ETH Zurich, Chair of TC104, ICPMG 2026
Prof. Dr. Michael Brown, University of Dundee, Secretary of TC104

09.30–10.00 Revisiting Dynamic Earth Pressure Coefficients: Shaking Sideways but Looking Up
Prof. Dr. Srikanth Madabhushi, CU Boulder

10.00–10.30 Physical Modelling of Monopiles in Sand: A Generalized Scaling Law and Long-Term Cyclic Response | Dr. Huan Wang, NGI

10.30 Break

11.00-12.30 Parallel Sessions

I.G1: New facilities & equipment — **HPH G1**	**I.G2:** Scaling laws & fundamentals — **HPH G2**	**I.G3:** Sustainability/ Resilient infrastructure / Energy geo-structures — **HPH G3**
I.P1: Practice/ industry to academia — **P1**	**I.P2:** Resilient infrastructure — **P2**	

12.30 Lunch

Tuesday **09 June**

11.00-12.30 **HPH G1**

New facilities & equipment

Co-Chairs: A. Take, E. Dodaro, Y. Lai **I-G1**

Spotlight: Permeation assessment of suspension-type grout using a novel centrifuge permeation setup
J. C. Chua, N. Suemasa, K. Itoh, T. Tanaka, T. Sasaki

Spotlight: Development of GeoTriax: A Custom Triaxial Centrifuge Cell for Coupled Geomechanical and Flow Behavior Studies
M. S. Bajestani, D. F. Cartagena-Perez, D. Pantov, A. Rangrizshokri, R. Chalaturnyk, G. Zambrano-Narváez

Design of a model scale plate anchor instrumented with excess pore pressure transducer for centrifuge modelling
J. Mendoza, K. Kwa, D. White, H. Mohr

Density determination of granular materials - A novel electrical conductivity based method
C. Cengiz

Experimental apparatus and instrumentation for a centrifuge study on soil plugging during pile installation in clay
P. Wiesenthal, B. Bienen, S. Henke

Development and Performance Evaluation of a Cylindrical Cam Shaking Table for Dynamic Centrifuge Modelling
A. Sahare, K. Itoh, N. Suemasa, T. Tanaka

Effect of surcharge on geotextile tube on seepage control performance: a centrifuge modelling study
C. Tang, Z. Jiang, J. Y., Lee, T. S. Seah, S. H. Chew

Investigating climate-driven slope failure using centrifuge modelling and pore pressure analysis
M. Alfergani, E. Bowman

A laboratory system for single-point multidirectional loading and 3D motion reconstruction
A. R. Mehrabadi, Q. Li, J. Mendoza-Ulloa, B. Cerfontaine, D. White, S. Gourvenec

Model tests on bearing capacity of soil cement H-shaped steel piles with headed studs in sand under confining pressure
N. Tomita, K. Shibata, Y. Horii, T. Watanabe, Y. Nomura, S. Shimomura, S. Otsuka

Tuesday **09 June**

11.00-12.30 **HPH G2**

Scaling laws & fundamentals

Co-Chairs: M. Almeida, A. Askarinejad, S.M. Springman **I-G2**

Spotlight: Quasi-Static versus Dynamic Fault Rupture: Centrifuge Modeling and Instrumentation
S. S. C. Madabhushi, M. S. Alrubaie

Spotlight: Physical modelling of the response of a shallow foundation relying on an unsaturated collapsible silt layer
F. Casini, J. J. Munoz, S. Lourenco, J.-M. Pereira, L. Thorel, P. Delage, D. Gallipoli, D. G. Toll, J. Vaunat

Centrifuge investigation of pipeline uplift on sloping ground using a novel internal measurement technique
Z. Liu

Centrifuge Modelling Approach to Assess Soil Thermal Properties
M. D. Puthurainikkal Joseph, E. Bowman, T. A. V. Gaspar

A centrifuge dam-break wave generator: development and measurements
A. Mink, S. Madabhushi

Centrifuge Modelling of Laterally Loaded Piles in Sand: Benchmarking against Large-Scale Tests
J. Liaudat, A. Kochnev, H. Zachert, D. de Lange, K. Castelein, S. van Eekelen, L. Jones, A. Agalianos, M. Sieber, A. Marin, I. Anastasopoulos, M. Blanc, L. Thorel, W. F. Ovalle Villamil, M. A. Cabrera, S. Muraro, S. Liu, S. Haigh

Effect of Relative Density on Repeated Liquefaction Behavior in Centrifuge Modeling
J. Florez, N. Takamatsu, K. Ueda, R. Uzuoka

On the challenge of preparing representative carbonate samples for centrifuge testing
Z. Hou, U. Mani, H. Li, C. Gaudin, P. Watson

Physical Modelling of Basal Reinforced Piled Embankments: Five Key factors and Project Insights
M. Schneider, S. van Eekelen, M. Hell, P. Pandrea, M. Topolnicki, H. Zachert

A centrifuge study on the dimensionless factor for drainage around large-diameter offshore monopiles
R. Fleminger, O. Adamidis, C. Martin, A. Agalianos, L. Jones, I. Anastasopoulos, P. Peralta, N. Santos

Tuesday **09 June**

11.00-12.30 **HPH G3**

Sustainability/ Resilient infrastructure/ Energy geo-structures

Co-Chairs: S.H. Chow, A. Ciancimino, I. Sasankul **I-G3**

Spotlight: Centrifuge modelling of natural peat
M. .Long, S. Ritter, P. Paniagua, L. von der Tann

Experiments on reinforced earth dams in full scale
M. Tillmanns, A. Bieberstein, S. Schiller, H. H. Stutz

Stability of Reinforced Earthen Dams: Insights from Centrifuge Model Tests
B. V. S. Viswanadham, P. Kumar

Soil liquefaction mitigation using crosslinked xanthan gum treatment on coarse sand using a dynamic centrifuge test
D.-Y. Park, D.-H. Choi, K.-W. Ko, T.-H. Kwon, G. Cho

Sustainable stabilization of marginal silty sand through carbon mineralization using serpentinite rock powder
A. Ali, M. Aziz, A. Raza, M. Murtaza

Retaining soil wall treated with cement: centrifuge modelling
M. Castaneda-Lopez, T. Lenoir, J. Sanfratello, P. Hauza, T. Dubreucq, L. Thorel, P. Audrain, A. Neel, A. Jagu, S. Lerat, P. Gaudicheau

Effect of soil nails in repairing damaged reinforced soil walls
J. Kuwano, S. Okazaki, Y. Yoshida

Groundwater flow effect on the thermal behavior of energy pile groups
L. M. Santos Sá, C. Tsuha, J. D. Sauvage, T. Dubreucq, M. Blanc, E. Khamis

Centrifuge modelling of 3D energy wall systems embedded in unsaturated soil
X. Guan, J. Knappett, M. Brown

From Low to High Resistance: Regime Change in Penetration of Granular Media
C. Cengiz, G. Macaro, M. Martinelli, H. Shi, J. Jovanova, D. Schott, E. Alderlieste, A. Kherief

Moisture migration in unsaturated sandy soil around energy pile and its mechanical consequences: a model test study
G. Tang, X. Ma, B. Ma, Y. Hu, H. Zhang

Tuesday **09 June**

11.00-12.30 **Pitch Station P1**

Practice/industry to academia

Co-Chairs: A. Arnold, M. Rebhan **I-P1**

Miniature cone penetration testing on a silica sand
A. Sadrekarimi, R. Ganguly

Slot stability of diaphragm walls during construction – possibilities and limitations of centrifuge modelling
D. Hasler, A. Arnold, D. Bucher, J. L. Hoenger

Interpreting CO2 plume evolution in hypergravity experiments using integrated monitoring data
S. Lopez Saavedra, M. S. Bajestani, R. Chalaturnyk, G. Zambrano Narvaez

A novel vibratory roller compactor for geotechnical centrifuge
C. E. Torres Romero, B. Caicedo

Study on the effects of bored precast pile toe shape on vertical bearing capacity
G. Yanagi, S. Shimomura, Y. Domyo

Pile-Jetting: Discussion of recent developments & possibilities for physical modelling
A. Arnold, M. Rindlisbacher

An Educational Approach to Soil Dynamics: Small-Scale Centrifuge Modelling of Resonance, Pore Pressure, and Wave Propagation
B. Caicedo, D. F. Cubides Ramírez

Experimental investigations of Ship wave-induced interactions on the waterways bed
B. Zaid, O. Stelzer

Laboratory-Based Full-Scale Calibration Chamber for Grout Injection Studies
G. Bastianini, M. Ciantia, R. Castellanza, A. Pettinaroli

Investigating flow-barrier impact mechanisms using two soil types in centrifuge tests
S. Cuomo, A. Di Perna, M. Moscariello, R. Ciaglia, M. Martinelli, N. Nappo, J. Langstraat, F. Cop, S. van Eekelen

Determination of the properties of bitumen and resin impregnated geotextiles
S. Kahraman, M. Tos, A. A. Gültekin, İ. B. Küçük, B. Evirgen

Tuesday **09 June**

11.00-12.30 **Pitch Station P2**

Resilient infrastructure

Co-Chairs: G. Anoyatis, M. Cascão, S. Mirmoradi **I-P2**

Experimental Evaluation of Crushed Stone Backfill Reaction Behind Concrete Caissons Under Cyclic Loading
O. Kurihara, H. Takahashi

Physical modelling of soil-pipe interaction for buried pipelines subjected to cyclic surface loading and internal pressurization
A. Ajami, C. Dano, O. Jenck, F. Emeriault, A. Mertz, M. Polo, M. N. Ali, G. Nespoulous

Investigating Drainage Boundary Effects in Multi-Lift Tailings Consolidation Using Geotechnical Centrifuge Physical Modelling
M. S. Bajestani, H. Idriss, W. Aboukhater, G. Zambrano Narvaez, N. Gheisari, G. Sakuhuni, R. M. Nik

Dynamic Behavior of Reinforced Earth Walls: A Frequency-Based Investigation
N. V. Dasari, K. K. Gonavaram, H. Mudavath

Submarine Landslides: Effects of Seafloor Roughness and Flow Velocity on Pipeline Impact Loads
F. Saboya, C. Melo, S. Tibana, R. Reis, J. M. Ferreira, R. Garske

Horizontal Loading Tests of Single Piles with Different Diameters in a Centrifugal Field
M. Odagiri, T. Kiriyama, Y. Asaka, Y. Yamato

Impact of Groundwater Table Fluctuations on Uplift and Bearing Capacities of Short Straight-Shaft and Spiral Piles under Two-Way Cyclic Loading
F. Shah, K. Isobe

Assessment of topographic amplification factor for slopes by centrifuge tests
M. Lee, C. Sun

Centrifuge Modeling of Face Stability in Shallow TBM Excavations in Cohesionless Soils
A. Durand, F. Saboya, S. Tibana, C. Cabral

Experimental Investigation of Seismic Loading Effect on Soil-Pipe Interface Friction
C. Jiang, Ö. Bilgin

Tuesday **09 June PM**

13.30 – 15.00 Plenary Session II — **HPH G1**

Co-Chairs: C. Abadie, A. Diambra

13.30-14.00 **Prof. Dr. Fraser Bransby,** UWA
Modelling offshore geotechnical problems: how hard can it be?

14.00-14.30 **Panel discussion + Episode 1**

14.30-15.00 **Prof. Dr. Cristina Tsuha,** USP
Experimental Investigations of Helical Foundations: From Physical Modelling to Full-Scale Testing

15.00 Break

15.30 – 17.00 Parallel Sessions

II.G1: On -& offshore foundations — **HPH G1**	**II.G2:** Practice/ industry to academia — **HPH G2**	**II.G3:** Seismic offshore foundations — **HPH G3**
II.P1: New facilities & equipment — **P1**	**II.P2:** Scaling laws & fundamentals/ Geotechnical seismic isolation — **P2**	

17.00 Reception
HPH Building Foyer

17.45-19.00 Schofield Lecture — **HPH G1**

17.45-18.00 **Andrew Schofield In Memoriam Address**
Prof. Dr. Malcolm Bolton, University of Cambridge

Introduction

Prof. I. Anastasopoulos, ETH Zurich, Chair of TC104, ICPMG 2026
Prof. Dr. Michael Brown, University of Dundee, Secretary of TC104

18.00-19.00 **Schofield Lecture**
Prof. Dr. Gopal Madabhushi, University of Cambridge
Insights into the Physical Modelling of Problems in Geotechnical Earthquake Engineering

Tuesday **09 June**

15.30-17.00 **HPH G1**

On -& offshore foundations

Co-Chairs: E. Bilotta, C.-H. Chen, C. Gaudin **II-G1**

Spotlight: Cyclic lateral behaviour of monopiles in very dense sand: a centrifuge study on pile geometry and loading sequence effects
A. P. da Silva, H. Wang, R. Zwaan, A. Askarinejad, F. Pisanò

Centrifuge modelling of piled rafts under generalised loads
F. Potini, G. Viggiani, R. Conti

Centrifugal Modelling of Underwater Stone Descent and Deposition
H. Takahashi, O. Kurihara

An experimental investigation on the performance of shared pile anchors in saturated sand and clay
J. Cui, Y. Huang, C. Wu, Y. Zhang

Field testing on foundation damping for offshore wind turbines supported by large diameter monopiles
Y. Zhang, P. Guo, G. Tian, Y. Huang, T. Qi, W. Ji, R. Li, R. Yan, E. Anderson, P. Sparrevik, A. Page

Study on liquefaction countermeasure for existing road bridge pile foundations in volcanic ash ground
T. Egawa, M. Yamaki, K. Isobe

Physical modelling of a novel groutless rock anchoring system for floating offshore renewable applications
W. Wang, M. Ciantia, A. Genco, P. He, C. Davidson

Effects of unconfined compressive strength and breakage on the bearing capacity of rubble mounds: Insights from laboratory and DEM investigations
R. Sukhumkitcharoen, I. Sato, M. Otsubo, O. Kurihara, H. Takahashi

Physical modelling on gas migration behavior and its impact on seabed stability
S. Wang, Y. Chen, Y. Long, D. Kong, B. Zhu

Interaction Mechanisms between Submarine Landslides and Offshore Monopile Foundations: Centrifuge Modelling
A. Lashgari, A. Barari, A. Leung, J. S. Nielsen

Deformation behaviour of single and meshed stone columns in centrifuge tests
R. Girout, J. R. Oliveira, M. Almeida, M. Riccio

Tuesday **09 June**

15.30-17.00 **HPH G2**

Practice/industry to academia

Co-Chairs: A. Arnold, M. Rebhan, C. Vrettos **II-G2**

Spotlight: Visualization of Grout Penetration using Transparent Soil Technique: Experimental Setup and Observed Propagation Behavior
Y. Cui, T. Kizaki, Y. Cui

Centrifuge model tests on soil nail walls combined with prestressed anchors
A. Botrugno, A. Arnold, S. Dietrich, G. Portmann, M. A. Cabrera

On-site measurements - Dynamic analysis of existing pile response induced by driving of adjacent piles
M. T. Tilat, S. Henke

Dynamic testing of pre-stressed grouted anchors – concept and feasibility study
M. J. Rebhan, H. Daxer, J. Edler, M. Schuch

Influence of eccentricity of H-shaped steel in soil-cement wall on vertical bearing capacity
R. Kiritani, S. Shimomura

A Physical Modelling Study of Cement Slurry Injection in Helical Piles Installed in Cohesive and Granular Soils
T. Morais, C. Tsuha, O. López

Dynamic characteristic identification of slope ground subjected to earthquake: frequency domain decomposition
S. J. Park, Y. W. Choo

Study on the behavior of track formation under varying axle loads at design speed through scaled-down model testing
S. Chatterjee, S. Haldar, B. Manna, D. Bhattacharya

Geotechnical Centrifuge Modeling of Tunnel Behavior in Difficult Soft Soil Conditions
J. F. Rodriguez, B. Caicedo, R. F. León, A. Santos

Shaking table test on a segmental tunnel crossing strike-slip active fault
H. Hu, S. Li, H. Yu

Centrifuge modelling of cyclic multidirectional loading of suction anchors in clay for floating wind arrays
C. O'Donovan, M. Long, C. Lyu, L. Arentz-Hansen, I. R. Jahren, I. I. Liplass, E. Sørlie, L. Jones, R. Herzog, A. Marin, I. Anastasopoulos

Tuesday **09 June**

15.30-17.00 **HPH G3**

Seismic offshore foundations

Co-Chairs: D. Gaudio, G.S.P. Madabhushi, C. O'Loughlin **II-G3**

Spotlight: Soil Response Along the Pile Shaft of a Shared Anchor Subjected to Multi-Directional Lateral Loading
M. K. Al Katabi, C. Abadie, Z. Li, M. Blanc

Spotlight: Effect of ESB Container Geometry on Seismic Behaviour of Offshore Wind Turbine Jacket
K. Natarajan, G. S. P. Madabhushi

Effect of types of input motions on the response of jacket structure
K. Natarajan, G. S. P. Madabhushi

Seismic performance of a 10MW OWT on different foundation systems from dynamic centrifuge testing
C. Espanol-Espinel, D. Gaudio, G. S. P. Madabhushi

Centrifuge modelling of seismically loaded monopiles: DONISIS – Model Creation and Site Response
L. Jones, E. Brunschweiler, S. Panagoulias, F. Pisanò, E. Kementzetzidis, I. Anastasopoulos

Centrifuge Modelling of seismically loaded monopiles: DONISIS – System Response | E. Brunschweiler, L. Jones, S. Panagoulias, F. Pisanò, E. Kementzetzidis, I. Anastasopoulos

Multi-Mode Scaling of Offshore Wind Turbine Models for DONISIS Seismic Centrifuge Tests
S. Panagoulias, L. Jones, E. Brunschweiler, I. Anastasopoulos, F. Pisanò, A. Tsouvalas, A. V. Metrikine, E. Kementzetzidis

Engineering Challenges and Lessons Learnt from Centrifuge Modelling of Monopile–Clay Interaction
C. Cengiz, A. Sharma, M. Konstantinou, R. Zwaan, W. Xie, D. Mohapatra, H. Wang, H. P. Jostad, E. Kementzetzidis

Centrifuge modelling of the quasi-static and dynamic behaviours of a rigid structure resting on a rigid inclusion reinforced soft ground
C. Nohra, C. Soriano-Camelo, S. Escoffier, Z. Li, L. Thorel

Centrifuge Modeling of Offshore Monopiles in Sloping Liquefiable Soils: Assessment of Lateral Spreading Effects
Y. Wu, A. Barari, A. Lashgari, J. Zhou, W. Y. Hung, L. B. Ibsen

Tuesday **09 June**

15.30-17.00 **Pitch Station P1**

New facilities & equipment

Co-Chairs: L. Bałachowski, D.-H. Choi **II-P1**

Assessment of spatial variability in soil models using centrifuge cone penetration tests
D. Choi, T. Kwon, J. Kim, D. Kwak, D. Park, Y. Lee, H. Kim, S. Lee, Y. Kang

An Originally Developed Centrifuge Test Apparatus for Simulating Tunnel Structure Crossings at Arbitrary Active Fault Angles | G. Zeng, Y. Kamoi, Y. Sawamura, K. Kishida

Case study of deep learning based image analysis for vibration measurement in physical model tests
S. Han, S. J. Park, S. Han, Y. W. Choo, J. Jeon, S. Yoon

Pile Driving in Crushable Glauconite Sand Using X-ray Tomography
M. A. Sayyah, M. Ciantia, M. Roustaei

Monitoring of Strain Behaviour of Geotextile Tubes under Wave Load in Hydraulic Wave Flume
S. H. Chew, Z. Jiang, C. Tang, J. M. Soh

A review of permeability in liquefied sands
V. Bhargava, S. C. Chian

A simple modular system for undergraduate laboratory experiments using a geotechnical centrifuge
N. Deluigi, J. Mendoza-Ulloa, J. Smethurst, D. White

The brittle t-z response of piles under axial loading: Physical models for teaching | A. Bateman, D. White

The E-Pilot container for investigating pile-soil-tunnel interaction in centrifuge
C. Saade, L. Thorel, M. Blanc, S. Lerat, A. Jagu, P. Audrain, A. Neel, P. Gaudicheau

Development of Experimental Methods for Ice-Pipe-Soil Interactions | S. Thompson, G. Piercey, J. Barrett, A. Macneill

Development of a Submarine Gravity Flow Modelling Device in a Beam Centrifuge
X. Chen, J. Tan, Z. Li, B. Zhu, D. Kong

Advancing multi-scale physical modelling and bespoke monitoring for offshore wind foundations through the national research infrastructure PROWIND
Ø. Blaker, C. Lyu, P. Carotenuto, V. B. Smith, M. Markman, A. J. Andrews, M. Bårdsen

Tuesday **09 June**

15.30-17.00 **Pitch Station P2**

Scaling laws & fundamentals / Geotechnical seismic isolation

Co-Chairs: B. Bate, Ö. Bilgin **II-P2**

Investigation on the similarity scaling principle of two-phase displacement in porous media under hypergravity via microfluidic experiments and centrifuge
W. Wang, B. Bate, P. Liu

Influence of bubble seepage on methane gas production and pore pressure evolution during hydrate dissociation in marine sediments
P. Wang, L. Wang, Z. Ye, B. Zhu, Y. Chen

The impacts of silts and clays on mobility of a scaled debris flow physical model | H. Nichols, A. Leonardi, E. Bowman

Scaling effects of g-level and fluid viscosity on flow velocity through transverse cracks in embankment dams and levees
M. Bancroft, K. Ko, J. Dejong, M. Gardner, J. Montgomery, G. Chen, S. Friesen

The influence of overconsolidation ratio on cone penetration resistance in sand
Y. Tian, A. Arafianto, B. Lehane

On the potential effects of entrained air in centrifuge static liquefaction studies
D. Reid, R. Fanni, N. Pereira, A. Fourie, V. Kunasegaram, F. Urbina

Challenges in experimental modelling of pile-soil-tunnel interaction using a small diameter centrifuge
P. Yensri, A. Dobrisan, A. Faramarzi, N. Metje, K. Hansard, C. Harbutt, E. Ashton

Dimensional analysis of backward erosion piping phenomena
L. Vignali, M. Marchi, L. Tonni, G. Gottardi

Centrifuge Modeling of Saturated Mine Waste Rock Under Cyclic Loading
I. Sasanakul, P. Ruttithivaphanich, S. Dejphumee

Wednesday **10 June AM**

08.00 – 18.00 Registration

Campus Hönggerberg, HPH Building, Joseph-von-Deschwanden-Platz 1 — **HPH Foyer Registration Desk**

09.00 – 10.30 Plenary Session III — **HPH G1**

Co-Chairs: Prof. Dr. B. Bienen, Prof. Dr. J. Dejong

09.00–09.30 **Prof. Dr. Anthony Leung,** HKUST
Challenges in modelling soil-root hydromechanical interaction to support nature-based slope engineering

09.30–10.00 **Dr. Sandra Escoffier,** Université Gustave Eiffel
Dynamic centrifuge tests in clay: case of piles and rigid inclusions

10.00–10.30 **Prof. Dr. Miguel Angel Cabrera,** TU Delft
Granular flows in rotating systems: Scaling principles, modelling techniques, and current challenges

10.30 Break

11.00 – 12.30 Parallel Sessions

III.G1: New facilities & equipment — **HPH G1**	**III.G2:** Resilient infrastructure — **HPH G2**	**III.G3:** On -& offshore foundations — **HPH G3**
III.P1: Numerical & physical modelling / Cryosphere applications — **P1**		

12.30 Lunch

Wednesday **10 June**

11.00-12.30 **HPH G1**

New facilities & equipment

Co-Chairs: O. Adamidis, S. Alber, Zambrano Narvaez **III-G1**

Spotlight: Centrifuge Experiments on Embankment Subjected to Combined Effects of Rainfall and Earthquake Using Centrifuge Rainfall Simulator
Y. Takada

Spotlight: Benchmarking Methods for Evaluating Stress-Strain Soil Responses in Dynamic Centrifuge Testing
T. Carey, Z. Fayaz, M. Talesnick, K. Ueda

Development of a Climate-Controlled Chamber: Measurement and Characterization of the Clay Response
M. Sheob, S. Aldawood, S. Madabhushi

Design and Validation of a Novel Small Calibration Chamber for Cone Penetration Tests in Soils
P. Adesina, S. Shoghi, A. McClenaghan, H. Mohr, D. Eden, M. Ghafghazi

A novel digital pore pressure transducer in geotechnical physical modelling
Z. Xu, X. Liang, N. Lee, S. Liu, S. Haigh

Physical Model Test of Leakage through Composite Cut-Off Wall with Defective Geomembrane
Z. Jiang, S. H. Chew, K. E. Low, C. Tang, J. Y. Lee, T. S. Seah

Scaled Physical Modelling of Soil-Vegetation Hydro-Mechanical Interactions
A. Zambrano, B. Caicedo

In-Flight Strain Measurement Using Fiber Optics in a Geotechnical Centrifuge
J. Westcott, G. Eichhorn, A. Bowman, C. Barela

Experimental verification of installation and bearing capacity of vibro-driven steel pipe piles in a centrifuge
H. Oguma, J. Miyamoto, T. Sato, K. Tsurugasaki

Centrifuge Apparatus for Simulating Axial Restraint in Pressurised Buried Pipe subjected to Traffic Loading
T. Elmrom, E. Bowman

Wednesday **10 June**

11.00-12.30 **HPH G2**

Resilient infrastructure

Co-Chairs: M. Blanc, L. Sakellariadis, H. Zachert **III-G2**

Spotlight: Centrifuge modelling of horizontally loaded piles under varying saturation conditions: preliminary results of the Pi.LAT.US project
L. M. Lalicata, G. d. Alessio, D. Gallipoli, M. Blanc

Understanding Soft Soil Stability Challenges in Dutch Railways through Centrifuge Modelling
C. Cengiz, C. Zwanenburg, T. Schweckendiek, A. van Uitert

Measuring Axial Friction Factors in Fine-Grained Soil
C. O'Beirne, P. Watson, M. F. Bransby, D. White, H. E. Low

Shaking table tests on a transportation hub combining underground stations and aboveground structures
Z. Zhang, X. Liu, C. Liu, X. Yao, Y. Yuan

Behaviour of anchored structures at failure – physical testing and numerical modelling
H. Daxer, M. J. Rebhan, G. O. Flatscher, J. Leo, T. Peterstorfer, J. Ober, D. Schlicke, F. Tschuchnigg

Full-scale tests on laterally loaded helical steel piles in dense sand
A. Kochnev, C. Wiening, J. Liaudat, H. Zachert, A. Livanidou, K. Georgiadis, P. Marques, E. M. Nunes Rodriges, P. J. Borralho Gil, T. Freitas, P. J. Bourne-Webb

The movement of shallow rectangular tunnels in soft clays under earthquake loading
N. Lee, G. S. P. Madabhushi

The impact of soil stratigraphy on liquefaction-induced settlements of Flood Embankments
Y. Kishore, G. S. P. Madabhushi, O. Adamidis, A. Bowman

Shaking table experiments for assessing the impact of foundation scour on the dynamic response of bridge piers
M. Aimar et al.

Submarine landslides against a deformable cable: a tilting table centrifuge model
M. A. Cabrera, A. Pasqua, A. Leonardi

Centrifuge Model Test of GRS Wall under Pseudostatic Seismic Load
B. V. S. Viswanadham, S. Mukherjee

Wednesday **10 June**

11.00-12.30 **HPH G3**

On -& offshore foundations

Co-Chairs: J. Grabe, F. Saboya Jr., H. Takahashi **III-G3**

Centrifuge modelling of wave-seabed-pipe interaction using a hydraulic-driven type wave maker
Z. Li, X. Wang, X. Chen, B. Zhu, D. Kong

Modelling high-velocity pile uplift in saturated sand in laboratory tests
M. Cramer, F. Williams-Riquer, M .A. Pick, J. Grabe

Field measurements using a model electrical vibrodriver for data-driven automation of the vibrodriving process
F. Williams-Riquer, M. Cramer, M. Pick, J. Grabe

Design and Commissioning of a High-Energy Impact Hammer for Large-Diameter Monopile Installation in the Deltares Centrifuge
C. Cengiz, A. Elkadi, A. Piedrabuena, R. Zwaan, K. Castelein, T. Quinten, M. A. Cabrera

Influence of Pile Arrangement and Bearing Stratum Thickness on Vertical Performance of Steel Pipe Sheet Pile Foundations
Y. Sawamura, K. Higuchi, R. Kato, Y. Soga, T. Kanazawa, N. Deguchi

Numerical Investigation on the Ultimate Lateral Resistance of Steel Pipe Piles Failing Due to Axial Force Fluctuations Induced by Overturning Moments of Superstructures
M. Sato, Y. Kimura

Evaluation of the Behavior of a Monopile in Sand Subjected to Lateral Loading Using Centrifuge Modeling
M. M. Hotta, M. Almeida, M. C. Ferreira de Almeida, J. W. Pereira Gomes, J. R. Oliveira

Hydraulic Model Experiments of Wave–Soil–Structure Interactions in a Drum Centrifuge | J. Miyamoto, K. Tsurugasaki

Measurement of installation torque using an instrumented screw pile
C. Davidson, M. Brown, Y. Sharif, B. Cerfontaine

Drainage in saturated sands surrounding offshore monopile foundations | R. Keane, B. W. Byrne

Spotlight: Centrifuge Modeling of an Offshore Monopile in Saturated Sand under Storm Loading: WESDOM test program
P. Tasiopoulou, T. Limnaiou, L. Sakellariadis, J. Chacko, L. A. Jones, A. Agalianos, I. Anastasopoulos

Wednesday **10 June**

11.00-12.30 **Pitch Station P1**

Numerical & physical modelling / Cryosphere applications

Co-Chairs: M. Gardner, K. Ueda, Z. Zhou **III-P1**

Development of a Numerical Analysis Model and Seismic Fragility Assessment for Railway Embankments
H. Song, M. Yoo, H. Kim, J. Kim

Development of seismic fragility functions for korean railway box structures based on finite element numerical analysis
Y. Lee, M. Yoo, J. Jeon, H. Song, J. Han, J. Kim

Development of a Foundational Numerical Analysis Model for Evaluating the Dynamic Behavior of Excavated Tunnels
D. Baek, M. Yoo, S. Kim

Centrifuge test modelling through a 1D computer code for effective stress analysis
G. Tropeano, A. Chiaradonna, F. M. Soccodato, P. Monaco

Experimental and Numerical Analysis of Reinforced Soil Retaining Walls with Poorly Graded Sand Backfill
D. Bahramiyan, H. Ahmadi, P. Z. Ranjbar, R. J. Chenari, B. Stuyts, M. Roustaei, M. Payan

Advancing offshore site investigation with the ROBOCONE p-y module: experimental and numerical investigation
J. Creasey, K. Wen, A. Bateman, A. El Hajjar, A. Diambra, D. White, D. Igoe, S. K. Sarvadevabhatla

Numerical Investigation of Scour Effects on Offshore Wind Turbine Monopile Foundations under Static and Cyclic Loading
O. Öcal, V. Isbuga, C. T. Akdag

Geocell reinforced sand beds: Liquefaction resistance evaluation
P. Krishnaraj, G. Madhavi Latha, J. Grabe

Dynamic Response Mechanisms of Stratified Rock Slopes Under Seismic Loading: Insights from Physical Modelling and Numerical Simulation
F. Zhao, Z. Shi, S. Yu

Hypergravity testing of thaw-dependent stiffness in permafrost under shallow foundations
S. Ham, S. Buttery, M. Gardner, J. Dejong, M. Khosravi, A. Khosravi

Surface settlement behavior due to various active trapdoors forms in granular soils
N. Farasat, T. Newson

Wednesday **10 June PM**

13.30 – 15.00 Plenary Session IV **HPH G1**

Co-Chairs: O. Jenck, D. White

13.30-14.00 **Dr. Elisabeth Bowman,** University of Sheffield

The Rosetta Stone Project: Unifying the comprehension of debris flow mechanics through physical modelling across the scales

14.00-14.30 **Panel discussion + Episode 2**

14.30-15.00 **Prof. Dr. Tarek Abdoun,** NYU Abu Dhabi

Recent Advances in Physical Modelling of Climate Change Hazards

15.00 Break

15.30 – 17.00 Parallel Sessions

IV.G1: Offshore foundations **HPH G1**	**IV.G2:** Numerical & physical modelling **HPH G2**	**IV.G3:** Life-cycle management / Nature-based solutions **HPH G3**
IV.P1: On & Offshore foundations / LEAP-Asia-2025 **P1**		

Lake Side

19.15
Welcome Drink

19.45
Gala Dinner

Wednesday **10 June**

15.30-17.00 **HPH G1**

Onshore and offshore foundation systems

Co-Chairs: E. Kementzetzidis, S. Rui, P. Watson **IV-G1**

Development of an integrated pile driving and loading system for centrifuge tests
S. Zhang, L. Wang, W. Zhang, Z. Dai, Z. Chen, Y. Wang, H. Wang, S. Rui, M. Xu, Z. Guo, S. Li

Centrifuge investigation of impact-driven laterally loaded monopiles in uncemented carbonate sand
L. Feske, B. Bienen, M. Randolph

Plug monitoring during vibratory monopile driving in centrifuge testing | L. Fang, M. Brown, C. Davidson, Y. Sharif

Experimental investigation on the load-sharing mechanism of suction bucket foundations under vertical loading in soft clay
Y. Zhang, C. Wu, B. Bienen

Physical modelling of monopile penetration through scour protection of different grain sizes
R. Jahanshahi, T. Jawid, M. Brown, J. Castro, C. Davidson, M. Miranda, W. Wang

Vibratory extraction of piles in sand: insights of a small-scale 1g investigation on the influence of vibratory force
P. André, L. Simonin, H. Rattez, G. Anoyatis, S. Francois, G. Flood-Page

A Centrifuge-Compatible Impact Hammer for PULSE Pile Driving: Design, Specifications, and Initial Performance in Dense Sand
T. Quinten, J. van Wijk, K. Gavin, M. A. Cabrera

Stress wave analysis of monopile driving in sand informed by embedded fibre Bragg grating sensors | M. Rasmussen, V. Nardelli, R. Keane, R. M. Buckley, H. Burd, B. W. Byrne

Model Tests on Suction Caisson Installation with Soil Plug Removal
T. Zhu, H. Wang, J. Zhang, R. Wang

Lateral Loading of In-Flight Vibratory and Impact Driven Piles in Sand within a Geo-Centrifuge | L. Simonin, P. André, T. Quinten, H. Rattez, M. A. Cabrera, S. Francois, G. Anoyatis

Locked-In Stresses Matter: the Effect of Installation and Centrifuge Spin-Down on Helical Anchor Performance in Sand | J. A. Nietiedt, P. Watson, C. O'Loughlin, C. Gaudin

Preliminary Insights into an Innovative Vibratory–Jetting Pile Installation Method
C. Cengiz, M. Konstantinou, A. Piedrabuena, G. Macaro, C. van Verseveld, H. Köpüklü

Wednesday **10 June**

15.30-17.00 **HPH G2**

Numerical & physical modelling

Co-Chairs: G. Gazetas, Z. Li, K.Ueda **IV-G2**

Mitigation of boundary-induced bias in image-based analyses for large soil deformations
G. Morales, N. Pinyol, M. Alvarado

SANISAND-MPL: Toward a Unified Framework for Offshore Soil Behavior under Undrained Loading
J. Zhou, M. Tafili, A. Barari, N. Irani, T. Wichtmann, L. B. Ibsen

A Mass-Gravity Scaling and Beam-/Shell-Volume Coupling Framework for Efficient Pile Installation in Centrifuge Tests
D. Alkateeb, J. Grabe

Numerical investigation of the kinematic interaction in a rigid inclusion-reinforced soft ground: site amplification response
C. Nohra, Z. Li, S. Escoffier, L. Thorel

A comparative analysis of physical and numerical modelling of debris flow behavior
V. Lentini, E. Basile, F. Castelli, K. Pinargote

Numerical simulation of cone penetration tests incorporating drainage effects
B. Dalnayak, V. Singh, S. Chatterjee, H. Zhou, C. O'Loughlin

Soil liquefaction triggered by ship waves in rivers and canals: A laboratory investigation on fine sands
J. Rothschink, O. Stelzer, F. Karl

Parameter study on factors influencing wave-induced liquefaction
H. Keese, J. Rothschink, O. Stelzer, T. Nagel

Bridge Foundation Instability under Climatic Extremes: Experimental and Numerical Insights into Driftwood and Seepage Impacts
S. Ali, Y. Nagoya, K. Isobe, Q. N. Pham, T. Hoshina

Numerical Investigation of Dynamic Centrifuge Tests on Disconnected Piled Raft Foundation
K. Ji, H. Park

Effect of Tip Angle on Cone Penetration Resistance: Insight from Model Test and DEM Analysis
R. Nakamura, M. Otsubo, R. Sukhumkitcharoen, A. Kondo, I. Sato, O. Kurihara, H. Takahashi

Centrifuge model tests on buried pipe uplift in liquefied ground using in-situ soil
H. K. Hong, T. Tobita

Wednesday **10 June**

15.30-17.00 **HPH G3**

Life-cycle management / Nature-based solutions

Co-Chairs: A. Galli, C. Wang, Z. Zhou **IV-G3**

Spotlight: Experimental set-up in the centrifuge study of a laterally loaded energy pile
E. Khamis, M. Blanc, T. Dubreucq, J. de Sauvage, T. Badinier, J. M. Pereira

Centrifuge model tests of cantilever pile supported foundation pit
X. Xiaomeng, G. Zhang

Deformation mechanisms of monopiles under long-term unbalanced cyclic lateral loads
L. L. K. Hung-Lo-Sang, J. Wang, C. M. Heron, A. Pettey, A. M. Marshall

Integrating physical testing and numerical modelling to investigate behavior of monopiles in sand under lateral cyclic loading
A. M. Zerihun, H. P. Jostad, G. R. Eiksund

Seabed response to wave-induced loading around a monopile foundation: insights from physical modelling
M. Gkougkoudi-Papaioannou, B. Stuyts, C. S. Jurado, C. Devriendt, P. Troch

Bearing capacity of tapered piles driven in medium-dense Fontainebleau sand | L. Bałachowski, J. Konkol, L. Thorel, M. Blanc, T. Dubreucq

Modeling installation and pullout response of snakeskin-textured piles
L. Sekulic, D. A. Dao, D. Alkateeb, J. Grabe, A. Martinez

Small-scale physical modelling of trees subject to cyclic and monotonic loading
J. Knappett, G. Georgiev, X. Zhang, M. Ciantia

Investigation of M-V interaction domain for small-scale simplified root system architectures
G. Marrazzo, A. Galli

Centrifuge modeling of Mangrove root-inspired systems for coastal protection
P. Kumar, T. Abdoun, W. El-Sekelly

A multi-scale physical approach to investigate the effectiveness of a nature-based solution for mitigating backward erosion piping
E. Dodaro, E. Tumedei, M. Marchi, G. Gottardi, L. Tonni

Wednesday **10 June**

15.30-17.00 **Pitch Station P1**

On- & offshore foundations

Co-Chairs: A. Conde de Freitas, A. Sadrekarimi **IV-P1**

Centrifugal model test on the stability of bucket foundation revetment under different backfill materials
Y. Guan, X. Han, Z. Pan

Acceleration responses of an immersed tunnel on soft clay deposit under horizontal excitation using centrifuge shaking table test | S. Liu, H. Zhou, J. Zheng, Y. Zheng

Force chain visualisation in the geotechnical centrifuge by means of photoelasticity | B. Świtała, M. A. Cabrera

Vertical stress variation induced by helical pile installation in very dense sand
C. Fonseca da Silva, J. Ferreira Michette, C. Tsuha

Pile shoe geometry influencing installation and bearing capacity of driven ductile cast iron piles – field tests and validation
M. Hayden, M. J. Rebhan, V. Racansky, J. Chalmovsky, J. Havlíček

On the validity of classical beam theory for the analysis of thin-walled piles under lateral loading
L.-V. C. Alves da Silva, O. Jenck, C. Dano, R. Chalhoub, J. Liaudat, A. Kochnev, C. Abadie, F. Szymkiewicz, H. Zachert

Centrifuge modelling of laterally loaded piles in silty sand
V. Zania, I. Rocchi, E. Panagiotis

LEAP-Asia-2025

Co-Chairs: S.-C. Chian, Y. -G. Zhou **IV-P1**

Image processing-based evaluation of shallow foundation settlement during liquefaction using a 1g physical model
M. A. Tutunchian, R. Rezvani, M. Payan, B. Stuyts

Centrifuge modelling of shear wave velocity evolution in sandy foundation during seismic loading
Q. Ma, Y. Zhou, Y. Cao, X. Zhang, Z. Yan

Seismic Response of Embankments on Inclined Foundations under Liquefaction Conditions
W. Y. Hung, C. Chen, W. Hung

Composite vertical drains for liquefaction mitigation - a laboratory study
M. P. Kompala, S. K. Yamsani

19.15-22.30 Gala Dinner

LAKE SIDE
Bellerivestrasse 170
Zurich

Thursday **11 June AM**

08.30 – 17.00 Registration

Campus Hönggerberg, HPH Building, Joseph-von-Deschwanden-Platz 1 — **HPH Foyer Registration Desk**

09.00 – 10:30 Plenary Session V — **HPH G1**

Co-Chairs: S. van Eekelen, J. Laue

09.00–09.30 **Prof. Dr. BVS Viswanadham,** IIT Bombay
Insights into Centrifuge-based Physical Modelling for Understanding the Performance of Geosynthetic Reinforced Soil Walls

09.30–10.00 **Prof. Dr. Katerina Ziotopoulou,** UC Davis
Coupling Nonlinear Dynamic Analyses with Centrifuge Testing to Advance Insights

10.00–10.30 **Prof. Dr. Esve Jacobsz,** University of Pretoria
Centrifuge modelling of failure mechanisms of tailings slopes

10.30 Break

11.00 – 12.30 Parallel Sessions

V.G1: New facilities & equipment — **HPH G1**	**V.G2:** On -& offshore foundations — **HPH G2**	**V.G3:** Practice / industry to academia — **HPH G3**
V.P1: Resilient infrastructure / Energy geo-structures — **P1**	**V.P2:** On -& offshore foundations — **P2**	

12.30 Lunch

Thursday **11 June**

11.00-12.30 **HPH G1**

New facilities & equipment

Co-Chairs: B. Caicedo, O. Reul **V-G1**

Spotlight: Evaluating soil response at low stress through laminar box tilt testing and in-soil measurement of stresses and strains
M. Talesnick, S. Jabarin, S. Nachum

Spotlight: Approaches to modelling screw pile groups for floating wind anchorages
T. Jawid, M. J. Brown, C. Davidson, L. Fang, C. Shepherd, Y. Sharif, R. Buckley, S. Whyte

Simulation System for Wind, Wave, and Seismic Loading in Centrifuge Testing of Offshore Wind Turbines
H. Takahashi, T. Tsuchida, H. Kashima, Y. Ohya, O. Kurihara, T. Ichikawa

Distributed Fibre Optic Sensing for Capturing Long-Term Soil Deformations in Railway Trackbeds in a Model Test
A. Kochnev, J. Liaudat, H. Zachert, O. Jenck, A. El Ayoubi, F. Emeriault, L. Vollmert, K. Makowska, A. Dhemaied, O. Yaba

A segmental shaking table test device for cross-fault tunnels under coupled strong ground motion and fault dislocation
Y. Wei, S. Li, H. Yu

Tactile Pressure Sensors for Geotechnical Compression Testing
J. Schleicher, S. Alber, M. J. Rebhan, A. Arnold, I. Anastasopoulos, F. Tschuchnigg

Combined 6-DoF motion tracking and photogrammetry to capture drag anchor installation behaviour in sand
J. Fan, B. Ferrell, C. O'Loughlin, M. F. Bransby, P. Watson

New sensor for measuring earth pressures in centrifuge model tests
G. Portmann, R. Herzog, J. Schleicher, M. J. Rebhan, A. Arnold, I. Anastasopoulos

A Hybrid C-Frame Laminar Model Container with PIV Window for Dynamic Centrifuge Testing
D. Xu, Z. He, H. Qu, S. Haigh, G. S. P. Madabhushi

Hagerbach Test Gallery - The Underground Future Lab
J. Michels, M. Kompatscher, F. Amberg

Thursday **11 June**

11.00-12.30 **HPH G2**

On -& offshore foundations

Co-Chairs: A. Marin, D. Pitilakis, G. Viggiani **V-G2**

Spotlight: Centrifuge modelling of suction anchors under multidirectional loading for shared mooring applications
C. Y. Soriano Camelo, M. Blanc, B. Cerfontaine, L. Thorel

Spotlight: Centrifuge Modeling of Single- and Two-Span Bridges with Rocking Foundations
M. Ghayoomi, M. Turner, E. Ajorlou, K. Ueda, R. Uzuoka

Physical modelling of 4-winged anchor piles
A. Moussa, A. Freitas, C. Abadie, Z. Li, M. Blanc

Installation and inclined loading response of drag embedment anchors in sand and clay
D. A. Dao, A. Peccin da Silva, D. de Lange, S. van Eekelen

1g and Centrifuge scaled modelling of embedded mooring lines for deployment of a novel offshore anchoring system in rock strata
T. Riccio, R. Smith, K. Caucis, P. Strong, P. Shiner, M. Alessandrini, M. Brown, C. Davidson, H. Noori

Rate Effects on Cyclic Stiffness and Ratcheting of Monopile Foundations in Clay
E. Kementzetzidis, C. Cengiz, H. Wang, W. Xie, R. Zwaan, A. Sharma, M. Konstantinou, F. Pisanò, H. P. Jostad, G. Christopoulos, D. Mohapatra

Seismic behaviour of pile groups in sloping ground
S. Weerasuriya, G. S. P. Madabhushi

Axial load testing of FBG-instrumented piles in dense sand test site in Kilmuckridge, Ireland
T. Barik, K. Flynn, S. K. Sarvadevabhatla, D. Igoe

Centrifuge modelling to rapidly assess the impact of surficial drill cuttings on shallow foundation sliding resistance
Y. Qi, P. Watson, J. Fan

Rocking response of a reinforced concrete pile group: insights from monotonic pushover loading centrifuge tests
L. Sakellariadis, A. Agalianos, M. Sieber, I. Anastasopoulos

Thursday **11 June**

11.00-12.30 **HPH G3**

Practice/industry to academia

Co-Chairs: A. Arnold, M. Rebhan **V-G3**

Spotlight: Large-scale uplift tests to improve design of pad foundations for Overhead Line Equipment
A. Diambra. M. J. Brown, T. Gokce, C. Davidson, A. J. Crewe, D. Williams, T. Horseman, S. Flint, M. Ward, A. Sextos

Spotlight: Centrifuge Study on Single Piles under Axial Loading:Modelling effects, Implications on Rocking Stiffness and Moment Capacity of Pile Groups
L. Sakellariadis, A. Agalianos, V. Drosos, I. Anastasopoulos

Evaluation of the Maximum Bending Moment of an Embedded Cantilever Flood Wall Measured by Distributed Strain Sensing Fibers
A. Bowman, G. Eichhorn, M. Bray, J. Westcott, A. Trautz, C. Barela

Important Roles of Large-scale Shaking Table Testing in Geotechnics
Y. Kawamata

Development and experimental validation of an energy-based evaluation method for pile construction in dry Toyoura sand
N. Shinhara, T. Haraguchi, H. Nishioka

From Laboratory to Territory: Comparative Analysis of Displacement Monitoring Technologies for Landslides Using a Laminar Shear Box
D. Ruiz, E. A. Montoya-Araque, J., Beltrán- Guerrero, M. I. Salinas-Agudelo, C. A. Cortez-Reinoso, A. Marulanda- Tobón, E. A. Guerra Valencia, J. D. Moreno-Aristizabal

Centrifuge Modelling of URM Seismic Response Using Sand-Based 3D Printing
M. Elmorsy, L. Jones, M. Wild, A. Katsamakas, I. Anastasopoulos, M. F. Vassiliou

Physical Modeling of Reinforced Concrete Structures with 3D-Printed Steel Cages at Centrifuge Scale
M. Elmorsy, C. Leinenbach, M. F. Vassiliou

The Älvkarleby Test Embankment Dam
J. Lagerlund, J. Toromanovic, J. Laue

A new apparatus for centrifuge modelling of 3D braced excavations
A. Alagha, J. Knappett, M. Brown, C. Augarde, W. Coombs, A. Petalas, M. Ouyang

Thursday **11 June**

11.00-12.30 **Pitch Station P1**

Resilient infrastructure / Energy geo-structures

Co-Chairs: B. Evirgen, M. Yoo **V-P1**

Experimental Study on Cavity Formation and Collapse in Fine-Grained Soils Triggered by Sewer Damage
A. Sugawa, R. Kuwano

Centrifuge Study on Carbonation Effects in Calcareous Sand
J. Singh, W. Mekni, M. Ghazy, T. Abdoun, K. Pavlopoulos, W. El-Sekelly

Investigation on Elastic Wave Propagation Characteristics in Small Scale Model Ground with a Cavity
H. Yuki, S. Watanabe, Y. Hara, R. Kuwano

Reproducing Historical Slope Failure Processes Using a Physical Model | C. Kuo, T. Chou

Centrifuge modeling of liquefaction under a partially-drained condition
M. Kunisawa, K. Ogawa, H. K. Hong, J. Miyamoto, T. Tobita

Laboratory-Scale Investigation of Ice Lens Effects on the Thawing Performance of Closed-Loop Steam-Driven Probe in Permafrost Ground
A. Nouri, D. Fortier, M. Roustaei, L. Arenson, J. Pereira, A. M. Tang, P. Maghoul

Physical and Numerical Investigations on the Stability of Unsupported Vertical Road Cuts in Unsaturated Soils
E. Sana, A. Kumar

Experimental Study on the Horizontal Resistance of Pile Foundations Adjacent to Retaining Walls and Shallow Ground Improvements | K. Watanabe

Experimental investigation into the effects of polymer/bentonite support fluids on tensile shaft resistance of bored piles
W. Zhai, A. Faroqy, I. Jefferson, N. Metje, P. Braithwaite, K. Hansard, S. Luo, T. King, J. Dewaele, K. Goodhue, H. Spinks-Essam, A. Heathcote, P. Konieczny

A physical model study on the thermal resistance of steel energy piles filled with different materials | M. Murari, C. Tsuha

Reduced-scale physical modelling of energy walls in partially saturated soils | A. Angelotti, A. Maspero, D. Sterpi

Experimental investigation of thermal performance of metakaolin concrete in heat-exchanging walls using 1g physical modelling| M. H. Bonab, A. Khosravi, E. M. Tabrizi, S. Rahnema

Thursday **11 June**

11.00-12.30 **Pitch Station P2**

On -& offshore foundations

Co-Chairs: V. Lentini, K. W. Ko **V-P2**

Experimental behavior of piggy-backed anchors in the embedment stage and pull-out stage
H. Wu, Y. Lai, B. Zhu

Centrifuge Modeling of Axial Load–Displacement Behavior of Vertical GFRP and Steel Piles in Sand
M. Ghazy, T. Abdoun, K. Celik, W. El-Sekelly

Centrifuge modelling on seismic response of layered clayey sand ground during earthquake swarms
W. Liu, L. Li, J. Li, D. Kong, B. Zhu

Centrifuge Modeling of Offshore Pile Response under Inclined Monotonic and Cyclic Loading
E. Hosseinzadeh, K. Gavin, M. A. Cabrera

Mechanical behaviour of caisson foundations: insights from centrifuge tests
G. Boccieri, R. Cesaro, R. Conti, R. Di Laora, L. Flessati, P. Marveggio, G. Della Vecchia

Centrifuge model studies on the performance of soft clay improved with pervious concrete piles
V. Manaswini, B. V. S. Viswanadham

Research on the installation mechanism of helical anchors in layered clay
L. Wang, Z. Ji, J. He, Y. Xu, D. Hao, W. Hu, Z. Shen, C. Zhang, Y. Tian, L. Zhang, C. Li

Plane-strain apparatus to study the effect of Vibrojet® pile installation on soil state
C. van Verseveld, C. Cengiz, S. Dasselaar, L. Griffin, A. Piedrabuena, M. Konstantinou, G. Macaro

Pile penetration through scour protection: integrating physical, field and numerical approaches into a predictive tool
G. Macaro, M. Martinelli, C. Cengiz, H. Shi, J. Jovanova, D. Schott, E. Alderlieste, T. van der Linden, A. Kherief, S. Brinkman, G. Chortis

Evaluation of the long-term behaviour of monopile foundations under cyclic lateral loading using 1g physical modelling
M. H. Bonab, A. Pazhouhandeh, E. M. Tabrizi, S. Rahnema

Thursday **11 June PM**

13.30 – 15.00 Plenary Session VI — **HPH G1**

Co-Chairs: J. Knappett, S. Escoffier

13.30-14.00 **Prof. Xiangfeng Ma,** Tongji University
Centrifuge modelling of environmental impacts of tunnels in soft ground during construction and service stages: a life-cycle perspective

14.00-14.30 **Panel discussion + Episode 3**

14.30-15.00 **Prof. Dr. Hesham El-Naggar,** Western University
Physical modeling for seismic vulnerability of infrastructure

15:00 Break

15.30 – 17.00 Parallel Sessions

VI.G1: Numerical & physical modelling — **HPH G1**	**VI.G2:** Geotechnical seismical isolation — **HPH G2**	**VI.G3:** LEAP-Asia-2025 / Underground structures — **HPH G3**
VI.P1: New facilities & equipment — **P1**	**VI.P2:** Life-cycle management / Sustainability /Nature-based solutions — **P2**	

17:00 – 17:30 Closing Ceremony — **HPH G1**

Announcement and brief presentations of ECPMG 2028, ACPMG 2028, and ICPMG 2030

Closure of ICPMG 2026
Prof. Dr. Ioannis Anastasopoulos, ETH Zurich, Chair of TC104, ICPMG 2026

Prof. Dr. Michael Brown, University of Dundee, Secretary of TC104

Thursday **11 June**

15.30-17.00 **HPH G1**

Numerical & physical modelling

Co-Chairs: A. Chiaradonna, Z. Li, M. Taiebat **VI-G1**

Deep Excavation Behavior with Surface Load Components: Centrifuge and Numerical Analyses
Q. Abbas, M. Aziz, J. Yoon, M. Kim, M. Kim, J. Lee

Integrating Numerical and Centrifuge Modelling to Investigate Shallow Foundation Behaviour
C. Ifeobu, C. Abadie, S. Haigh, Z. Li

Estimation of scour depth around monopile and tripile offshore foundations under varying hydrodynamic conditions
A. Jatoliya, D. Bhattacharya, B. Manna, T. F. Ferradosa

Numerical Evaluation of Scour-Hole Formation Procedures in Centrifuge Modelling for Laterally Loaded Monopiles
B. Wu, S. C. Chian

Comparison of THM-Controlled Centrifugal Model Tests and Numerical Simulations for Evaluating Long-Term Stability in HLW Geological Disposal
M. Sato, M. Sawada, S. Nishimoto

Liquefaction-induced response of offshore wind turbine monopiles: from physical tests to numerical modeling
M. Asgarpoor, E. Brunschweiler, I. Anastasopoulos, M. Taiebat

Towards Fibre Optic Shape Sensing for Geotechnical Model Testing
Q. Yang, Y. Wang, M. M. Disfani, X. Xu, M. Cassidy, Y. Tian

Influence of foundation shape and embedment on the dynamic response of the Persefone prototype
T. Lusi, D. Losanno, D. Pitilakis, F. Silvestri, F. da Silva

Numerical investigation of soil-monopile interaction under cyclic loading | M. F. Erener, C. T. Akdag, D. S. Erdogan, T. T. Erener

Slope-Stabilizing Works as Potential Scour Countermeasures for Bridge Foundations: Evidence from Physical and Numerical Modelling
A. Antonella, L. Jones, I. Anastasopoulos, S. Stefania

A 3D-printed physical model of a 2D granular packing for experimental validation of multifluid LBM Simulations
C. Toffoli, R. Hosseini, J. Grabe

CEL numerical modelling of helical pile installation observed in centrifuge tests
L. Josseaume, Z. Li, L. Thorel, C. Abadie, R. Vasilescu

Thursday **11 June**

15.30-17.00 **HPH G2**

Geotechnical seismic isolation

Co-Chairs: G. Abate, H.-H. Tsang **VI-G2**

Spotlight: Centrifuge-based experimental validation of seismic resonant metamaterials for structural protection
C. Kanellopoulos, K. A. Chondrogiannis, L. A. Jones, E. Brunschweiler, H. R. Thomsen, I. Anastasopoulos, B. Stojadinovic

Spotlight: Forces required to create impressions in stiff clay
L. M. Lalicata, S. E. Stallebrass, A. McNamara

Minimum and maximum void ratios in tyre-derived and recycled concrete aggregate mixtures
M. Kowalska, B. Bdzionek, K. Gabryś, I. Zatorski

Mitigation of seismic vibrations using gravel–rubber mixtures: a geotechnical seismic isolation application for heritage structures | A. Fiamingo, G. Abate, M. R. Massimino

Numerical Analysis of Geotechnical Seismic Isolation Using Expanded Polystyrene: Application to the EuroProteas Prototype at the Euroseistest Site
M. Gatto, L. Montrasio, C. Amendola, E. Filoglou, D. Pitilakis, H. Tsang

Dynamic centrifuge modelling of geotechnical seismic isolation (GSI) systems: a summary
H. Tsang

Dynamic Testing of a Seismically Isolated Deep Foundation: Insights from the ERIES-GISIS Project
G. Fasano, G. Astuto, E. Bilotta, A. Flora, E. Filoglou, G. Kroupi, A. Anastasiadis, D. Pitilakis

Centrifuge Model Testing of Vibration Isolation Effect of Foam Concrete-Sand Composite Barriers for Metro Tunnels
Y. Jiang, X. Ma, R. Zhang, H. Zhang, C. Sun

A low-cost seismic isolation and re-centering system for developing countries: large scale shaking table tests under uniaxial Ricker ground motions
B. Ge, Y. Zhang, A. Diambra, R. D. Risi, A. Sextos

Feasibility of Rubber–Sand Mixture Columns for Liquefaction Mitigation: Shake Table Investigation
A. Srivastava, S. Banerjee

Thursday **11 June**

15.30-17.00 **HPH G3**

LEAP-Asia-2025 / Underground structures

Co-Chairs: Z. Fan, S. Suzuki, Y.-G. Zhou **VI-G3**

Spotlight: Centrifuge model test configuration for LEAP-Asia-2025: Boundary effect on liquefaction response of sand ground under earth-dam
Y.-G. Zhou, C.-Y. Zhang, D.-C. Zhang, Q. Ma, Y. Cao, Y. Chen

Shaking table tests using geotechnical centrifuge to investigate non-linear behavior of sandy ground during Nankai Trough simulated earthquake
H. Iwai, Y. Ikami, K. Shibata, H. Uno, H. Funahara, T. Fujiwara, S. Ishizaki

Centrifuge Modeling of the Dynamic Response of an Embankment: LEAP-ASIA 2025 Tests at Kyoto University
S. Ohashi, N. Takamatsu, K. Ueda

LEAP-Asia-2025 Centrifuge Experiments at Ehime University
K. Ono, T. Ogawa, M. Okamura

The Influence of Soil Preparation Methods on Liquefaction Behavior in Centrifuge Modeling
N. Takamatsu, J. Florez, K. Ueda, R. Uzuoka

Dynamic Centrifuge modeling of the dynamic behavior of an old masonry wall in sand
F. Valtucci, E. Bilotta, S. Lirer, A. Flora, C. Espanol-Espinel, G. S. P. Madabhushi, G. Viggiani

Centrifuge Modelling of a High Embankment under Seismic Motions: LEAP-ASIA 2025 Tests at Kansai University
T. Tobita, H. K. Hong, M. Kunisawa, H. Tobe

Centrifuge modeling of artesian response in silty-interlayered deep sandy deposits: Influence of underlying sand thickness
Y. Wu

The planning of LEAP-Asia-2025 project and preliminary centrifuge model tests at Zhejiang University
Y.-G. Zhou, C. Zhang, Q. Ma, Y. Cao, M. Manzari, M. Zeghal, K. Ueda, M. Okamura, G. S. P. Madabhushi, R. Wang, Y. Chen

1-g shaking table tests on a shallow-buried tunnel in liquefiable ground: deformation and displacement responses
Z. Fan, X. Xiong, Y. Yuan

Integrated effects of combined manhole and sewer pipe countermeasures in liquefied ground using dynamic centrifuge model tests
S. S. Suzuki

Thursday **11 June**

15.30-17.00 **Pitch Station P1**

New facilities & equipment

Co-Chairs: D. Sterpi, H. H. Stutz **VI-P1**

Design of an enclosed and automated sand rainer system to reduce respirable silica dust exposure
Y. Wang, S. Beard, S. H. Chow, M. Cassidy

An Automatic Sand Pourer for Preparation of Loose and Dense Samples for Physical Modelling
L. L. K. Hung-Lo-Sang, J. Wang, C. M. Heron, A. Pettey, A. M. Marshall

Revisiting the role and outlook of geotechnical mini-centrifuges for offshore geotechnical applications
C. Lyu, J. Black, P. Carotenuto, Ø. Blaker, S. Ritter, Y. Teng, L. Chen, Y. Zhang, A. Freitas, M. Almeida

Comparison of shear wave velocity calculation techniques for centrifuge test data
D. Xu, S. Weerasuriya, G. S. P. Madabhushi

Advancing Physical Modeling with Aluminum-Rod Model Ground: Confining Pressure Effects on Deformation Characteristics
Y. Egoshi, M. Yagawa, H. Nishioka

Seismic ground reaction forces of rectangular underground structures: Insights from shear container model experiments using an aluminum-rod model ground
K. Takahashi, H. Nishioka, T. Shimada, T. Doi, J. Izawa

Critical state line-based CPTu interpretation
S. Beltran, D. Moug, B. Auyeung

Design and Development of an EPB Shield Machine for the Geotechnical Centrifuge
P. Kumar, X. Chen, T. Abdoun, R. Sousa

On the choice of appropriate sieves and diffusor sieves for air pluviation based on sand grain properties
N. Heim, S. Henke

Wind Tunnel Physical Modelling of Coupled Above and Below ground Near-Surface Geo-Environments
A. Trautz, T. Illangasekare, M. Karr, J. Sherburn, A. Bowman

Thursday **11 June**

15.30-17.00 **Pitch Station P2**

Life-cycle management / Sustainability / Nature-based solutions
Co-Chairs: E. Romero, J.-H. Kim **VI-P2**

Analysis of piled-raft foundation systems (PRFS) founded on soft clay, via geotechnical centrifuge teste
E. Rodriguez, R. Pinto da Cunha, J. F. Rodriguez, B. Caicedo

Time scaling of cyclic loading and consolidation between centrifuge and field conditions for prediction of life-time seabed-structure interaction | Z. Zhou, C. Wang, Y. Wang

Extended ICL study for lime stabilisation: Navigating pH changes over prolonged time and differentiating the effects of lime aging
I. Ghani, A. El-Hamalawi, M. Frost, P. Beetham

Polymers additives for improving liquefaction resistance of sandy soil | M. Mlhem, W. Al-Zain

Acoustic Emission as an indicator of sand deformation in drained triaxial tests | S. A. Solh, S. Abdelaziz

Centrifuge Model Tests on Failure Mechanism of Dual Structure Slope under Gradual Excavation Condition | Y. Hao, G. Zhang

An innovative physical model for studying landslide dynamics in forests with controlled tree breakage | H. Liu, A. Leonardi

Infiltration Behavior of Hydrophobically Treated Slopes Under Extreme Rainfall | S. Yun, B. Kim, S. Park, J. Hwang, J. Kim

Assessing the ability of vegetation to reset hydraulic conditions in a capillary barrier
D. Boldrin, J. Knappett, A. Leung, G. Bengough

Friday **12 June**

Friday **12 June**

Conference Tour 1

Spitallamm Dam, Grimsel Pass

Departure: 09.30 at Meeting Point (see page 7)
Return: approx. 18.45 in Zurich
Registration required (limited to 50 pax)

Friday **12 June**

Conference Tour 2

VersuchsStollen (The Hagerbach Test Gallery), Flums

Departure: 09.00 at Meeting Point (see page 7)
Return: approx. 16.15 in Zurich
Registration required (limited to 50 pax)

ETH zürich

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Institute for Geotechnical Engineering