

GEOLAB's Third Next Generation Training Workshop (Nov. 30th – Dec. 1st, 2023)

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“Science for Enhancing Europe’s Critical Infrastructure”

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GEOLAB's Third Next Generation Training Workshop (Nov. 30th – Dec. 1st, 2023) Agenda

Day	Session Title	Activity	Speakers
Thursday (8:30 – 9:00)	Welcome and Introduction Speech		Dr. Miguel Cabrera – TU Delft
Thursday (09:00 – 12:30)	1. Fundamentals of Physical modelling, scaling laws, measurement techniques	Interactive lecture that will consider model design, scaling laws, data acquisition and interpretation methods in a form that will help participants in planning their own experiments.	Prof. Dr. Ioannis Anastasopoulos - ETH Zurich
	2. Image-based analysis techniques in geotechnical modelling	Interactive lecture that will cover the technique specific concerns associated with sample preparation, camera choice, lighting, interpretation, and potential pitfalls to be avoided.	Dr. Sam Stanier - University of Cambridge
Thursday (13:45 – 17:00)	3. Physical modelling of climate change, geo-hazard and aging	Presentation of case studies using physical modelling to tackle the effects of climate change, geo-hazard and aging on critical infrastructure (CI)	Dr. Suzanne van Eekelen – Deltares
	Tour NGI Laboratories	Guided visit to the laboratories and physical modelling facilities of the Norwegian Geotechnical Institute (NGI)	Dr. Thi Minh Hue Le – NGI Dr. Santiago Quinteros – NGI

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Friday (8:00 – 12:30)	4. Data collection, processing, and analyses techniques - Theory and group based small exercise in class	The participants will learn how to plan experiments in different scales, how to acquire relevant data and how to process them	Prof. Dr. Luc Thorel – Uni Eiffel Prof. Dr. Hauke Zachert – TUDa Dr. Thi Minh Hue Le – NGI
Friday (13:45 – 17:00)	5. Case studies of physical and numerical modelling in offshore geomechanics	Presentation on the use of physical modelling for assessing offshore geomechanics related to submarine landslides and offshore foundations	Dr. Miguel Angel Cabrera – TU Delft Dr. Huan Wang – NGI Dr. William Ovalle – TU Delft Dr. Stefano Muraro – TU Delft
	6. On the use of large-scale testing for the practice of geotechnical engineering	Closing keynote	Dr. Jean-Sebastien L'Heureux – NGI

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	Day	Time	Session Title	Presenters
Young professionals training	Thursday 30/11	8:30	Welcome and Introduction Speech	Dr. Miguel Cabrera - TU Delft
		9:00	1. Fundamentals of Physical modelling, scaling laws, measurement techniques	Prof. Dr. Ioannis Anastasopoulos – ETH Zurich
		10:30	Coffee and tea break	
		11:00	2. Image-based analysis techniques in geotechnical modelling	Dr. Sam Stanier – UCAM
		12:30	Lunch break	
		13:45	3. Physical modelling of climate change, geo-hazard and aging	Dr. Suzanne van Eekelen – Deltares
		15:15	Coffee and tea break	
		15:45	Tour NGI Laboratories	Dr. Thi Minh Hue Le – NGI Dr. Santiago Quinteros – NGI
		17:00	Adjourn	

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	Day	Time	Session Title	Presenters
Young professionals training	Friday 1/12	8:00	4. Data collection, processing, and analyses techniques Theory and group based small exercise in class	Prof. Dr. Luc Thorel – Uni Eiffel Prof. Dr. Hauke Zachert – TUDa Dr. Thi Minh Hue Le – NGI
		10:00	Coffee and tea break	
		10:30	4. Data collection, processing, and analyses techniques Theory and group based small exercise in class (continuation)	Prof. Dr. Luc Thorel – Uni Eiffel Prof. Dr. Hauke Zachert – TUDa Dr. Thi Minh Hue Le – NGI
		12.30	Lunch break	
		13:45	5. Case studies of physical and numerical modelling in offshore geomechanics	Dr. Miguel Angel Cabrera – TU Delft Dr. Huan Wang – NGI Dr. William Ovalle – TU Delft Dr. Stefano Muraro – TU Delft
		15:15	Coffee and tea break	
		15:45	6. Closing Keynote: On the use of large-scale testing for the practice of geotechnical engineering	Dr. Jean-Sebastien L'Heureux – NGI
		17:00	Drinks and snacks	

GEOLAB is an European network of renowned institutes bringing together six geo-centrifuges and six other large research facilities: a geo-model container, a pile foundation test pit, a static liquefaction tank, a railway track simulator, a large-scale triaxial apparatus and a set of field test sites. The project is funded by the European Commission Horizon 2020 Research and Innovation programme. The overarching aim of GEOLAB is perform ground-breaking research and innovation that enhances the resilience of Europe's Critical Infrastructure.

Find out more about the project here: <https://project-geolab.eu/>

Information on the processing of personal data can be accessed [here](#).

