

# Invitation to Workshop of the ISSMGE Technical Committee TC104 on Physical Modelling in Geotechnics

“New techniques and applications of physical modelling in geotechnics”

TC104 workshop at the ECSMGE 2019

**Venue:** - Harpa, Reykjavík, Iceland (Room – TBA)

**Date/Time:** - Sunday, 1 September 2019, 1:00 PM

**This TC104 workshop will present recent collaborative research programs in physical modelling community and various applications in geotechnical research programs. Innovative modelling and analysis techniques will be introduced as well. The workshop will be followed by discussions and 2019 TC104 meeting.**

All attendees for ECSMGE 2019 are welcomed to participate the workshop. For more information, please visit <https://sites.google.com/view/issmgetc104> or directly contact the secretary of TC104 - [namryong@gmail.com](mailto:namryong@gmail.com) (Nam-Ryong KIM)

## **Programme**

Schedule	Presenter / Discussion leader	Topic
13:00	Dong-Soo KIM (TC104 Chair)	Welcome, TC104 update, workshop plan
Recent collaborative experimental programs in TC104 & applications physical modelling		
13:10	Jonathan BLACK & Steven BAYTON (U. Sheffield)	Benchmark centrifuge tests for monopile design
13:30	Dong-Soo KIM (KAIST)	LEAP-ASIA-2019
13:50	S.W. JACOBSZ (U. Pretoria)	Centrifuge modelling of plug pull-out tests in expansive soils
14:05	Matthieu BLANC (IFSTTAR)	Centrifuge test on instrumented FBGs monopile foundation in sand
14:20	Jonathan BLACK (U. Sheffield)	Automated reconstruction of soil stress-strain response from full field displacement measurements and loading data using optimisation.
14:35	Amin ASKARINEJAD (TU Delft)	A novel technique for simulating submarine landslides in geo-centrifuge
14:50	Coffee break	
Key techniques for instrumentations & interpretations in physical modelling		
15:00	Charlie HERON (U. Nottingham)	Advanced hybrid centrifuge testing for soil-structure interaction problems
15:20	Sam STANIER (U. Cambridge)	Freeware PIV/DIC for geotechnical modelling: new advances and applications using GeoPIV-RG
15:40		Discussion & Closure
16:00		TC104 member meeting