

SHOWCASE

SYDNEY, AUSTRALIA

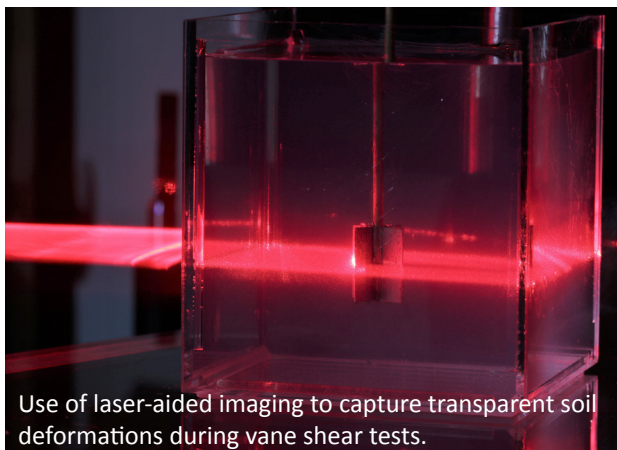
30 - 31 JULY 2018

INFRASTRUCTURE PROJECTS

TRANSFORMATIONAL GEOTECHNICS

LEGACY

FUTURE CHALLENGES



Use of laser-aided imaging to capture transparent soil deformations during vane shear tests.



Drone for monitoring road and rail cuttings.



Centrifuge model test of offshore foundations.

You are cordially invited to attend the showcase for the Australian Research Council Centre of Excellence for Geotechnical Science and Engineering (CGSE) which will feature presentations and technical workshops.

The CGSE team will describe cutting-edge computational tools, state-of-the-art physical modelling facilities and sophisticated new laboratory and field testing techniques that have been developed to deliver safer and more cost-effective designs of Australia's critical energy and transport infrastructure. The presentations by key CGSE staff will cover a wide range of infrastructure applications, including embankments for roads on soft problematic ground, offshore oil and gas facilities, rail track design, solutions to the PFAS contamination caused by the use of fire-fighting foams, and geotechnical challenges of future mega-projects.

A number of 2-hr workshops will be held for practicing engineers who wish to learn more about advanced laboratory and *in situ* testing techniques, the use of probabilistic methods in geotechnical engineering and recent advances in rail geotechnics. Although the workshops are free, registration is required to secure a place, as the number of available seats is limited. Delegates can elect to attend one or both days of the showcase, and can participate in one or more workshops.

COLLABORATING INSTITUTIONS



PARTNER ORGANISATIONS



REGISTRATION

Places are strictly limited. To secure your place please register by emailing

Kirstin.Dunncliff@newcastle.edu.au by **2 July 2018**

ENQUIRIES

Kirstin Dunncliff
Centre Manager
Kirstin.Dunncliff@newcastle.edu.au
T: +61 (0)2 4921 8832

VENUE

The Grand Ballroom
Level B, Shangri-La
176 Cumberland Road
The Rocks, Sydney, Australia

COST

FREE

SPONSOR



Australian Government
Australian Research Council