

# STATIC LIQUEFACTION WORKSHOP

30 OCTOBER – 1 NOVEMBER 2018 | BRISBANE, AUSTRALIA

Delegates can attend all three days or days two and three only

REGISTER NOW

Earybird registration ends 21 September 2018

## Overview

Day one of this workshop is for those who have not regularly worked in the area of static liquefaction, to provide a review of key terms and concepts and therefore increase the benefits of days two and three.

Workshop days two and three aim to provide demonstrations of the static liquefaction failure mechanisms (and triggering processes) as it relates to tailings, and the tools used to assess the potential for this behaviour. This will be achieved through explanation of the use and interpretation of the cone penetration test (CPT), the key tool for assessing strength and liquefaction susceptibility, and carrying out a static liquefaction laboratory test as a live demonstration during the workshop. Theoretical discussions will be alternated with examples from various tailings failure case histories to highlight the relevance of the concepts and the meaning of the results.

## Who Should Attend

Mining and tailings consultants, operators of tailings storage facilities, as well as regulators will find this workshop of interest.

## Presenters:



Dr David Reid  
Research Fellow  
School of Civil, Environmental and Mining Engineering, The University of Western Australia



Professor Andy Fourie  
School of Civil, Environmental and Mining Engineering, The University of Western Australia

### STATIC LIQUEFACTION WORKSHOP DAY 2 PROGRAMME\*

08:30	REGISTRATION
08:30	Welcome and introduction
08:45	Static liquefaction
10:15	MORNING BREAK
10:30	Cone penetration test 1 - overview
12:00	LUNCH
13:00	Case histories
15:00	AFTERNOON BREAK
15:30	Laboratory testing 1 - overview
16:30	DAY TWO CLOSE

### STATIC LIQUEFACTION WORKSHOP DAY 3 PROGRAMME\*

08:30	Stability analysis considerations
09:30	Laboratory testing 2 - critical state testing
10:30	MORNING BREAK
10:45	Cone penetration test 2 - inferring state
12:00	LUNCH
13:00	ANCOLD guidance and potential improvements
13:30	Static liquefaction demonstration
14:30	AFTERNOON BREAK
15:00	Post-liquefaction strength
16:00	Summary and discussion
16:30	WORKSHOP CLOSE

\*Programme may be subject to change

### STATIC LIQUEFACTION WORKSHOP DAY 1 PROGRAMME\*

08:30	REGISTRATION
09:00	Welcome and introduction
09:15	Effective stress principle review
09:45	Strains, principal stresses, and loading direction
10:45	MORNING BREAK
11:00	Laboratory test types
12:00	LUNCH
13:30	In situ test types
14:30	Stability analysis methods
15:15	AFTERNOON BREAK
15:30	Observational methods in geotechnical engineering
16:00	Closure and review
16:30	DAY ONE CLOSE

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REGISTRATION FORM

## CONTACT DETAILS

Please print. \*denotes mandatory fields.

\*Title (Mr, Mrs, Miss, Ms, Dr, Prof., other) \_\_\_\_\_

\*Family Name \_\_\_\_\_

\*First Name \_\_\_\_\_

Preferred Name \_\_\_\_\_

\*Position \_\_\_\_\_

\*Organisation \_\_\_\_\_

Mine/Dept \_\_\_\_\_

\*Address \_\_\_\_\_

Phone \_\_\_\_\_

Mobile \_\_\_\_\_

\*Email \_\_\_\_\_

\*All confirmations/event updates will be sent via email

Registrants contact details are intended to be published in the workshop authorised attendee list made available to workshop attendees, who may contact you, including electronically.

I give permission for my details to be included in the workshop attendee list.

I give permission for the ACG to send me ACG research, training and/or education information advice, including electronic communications.

I require an invitation letter for visa purposes (please forward a copy of your passport information page). For more information regarding Australian visas, please visit <http://acg.uwa.edu.au/about-events-and-courses/visa>

Venue to be advised

## DELEGATE CANCELLATIONS

Up to 8 days before event(s) commencement: an administration fee of AUD 150 will be charged. 7 or less days before: no refund. Non-attendance: no refund. Substitutions will be accepted at any time. The ACG reserves the right to cancel the workshop if insufficient registrations are received.

† Please visit [www.acg.uwa.edu.au/corp\\_affiliates](http://www.acg.uwa.edu.au/corp_affiliates) to view the list of ACG Corporate Affiliates.

^ Students are required to provide proof of full-time enrolment at time of registration.

## Static Liquefaction Workshop Days 1–3 (1870) 30 October – 1 November 2018

	<i>Earlybird</i> Paid by 21 Sept 2018	<i>Standard</i> Paid after 21 Sept 2018
Standard	<input type="checkbox"/> 2200	<input type="checkbox"/> 2420
ACG Affiliate†	<input type="checkbox"/> 1980	<input type="checkbox"/> 2200
Student^	<input type="checkbox"/> 660	<input type="checkbox"/> 990

## Static Liquefaction Workshop Days 2 & 3 Only (1871) 31 October – 1 November 2018

	<i>Earlybird</i> Paid by 21 Sept 2018	<i>Standard</i> Paid after 21 Sept 2018
Standard	<input type="checkbox"/> 1760	<input type="checkbox"/> 1980
ACG Affiliate†	<input type="checkbox"/> 1540	<input type="checkbox"/> 1760
Student^	<input type="checkbox"/> 440	<input type="checkbox"/> 660

## Management, Operation and Relinquishment of Tailings Storage Facilities

28–29 November 2018  
Perth, Western Australia

For more information on this two-day ACG seminar addressing the issues facing site personnel involved in the day-to-day management of tailings storage facilities, see

[www.acg.uwa.edu.au/events/](http://www.acg.uwa.edu.au/events/)

## PAYMENT

Total payment AUD \_\_\_\_\_

Payment to be received by 28 October 2018. All bank fees are the responsibility of the registrant. All prices include GST.

ABN 37 882 817 280

## PAYMENT OPTIONS

EFT payments: Please return this completed form and request an invoice. Email [info-acg@uwa.edu.au](mailto:info-acg@uwa.edu.au)

Credit card payments: please phone us on +61 8 6488 3300 to pay by credit card. Visa and Mastercard are the only cards we accept

To register send completed form to:

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35 Stirling Highway (M600)  
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Contact us:

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