

# Instrumentation and Slope Monitoring Seminar & Management of Moving and Unstable Slopes Workshop

2-4 May 2017 | Novotel Perth Langley | Perth, Western Australia

Earlybird  
registrations  
end 27 March  
2017

The ACG is committed to supporting the development of modern, efficient and profitable mining operations throughout the world. To this end, the ACG presents worldwide training courses and events, the objective of which is to rapidly develop capacity through technology transfer and teaching best practice that enhances profitability of mining organisations and minimises future environmental impacts from their mining operations.

## Instrumentation and Slope Monitoring Seminar

Tuesday 2 – Wednesday 3 May 2017

The ACG is proud to host a two-day seminar that is targeted to supporting the continued development and application of advanced monitoring systems to all types of mine sites and their waste landforms.

Ground-based Real Aperture Radars (RAR) and Synthetic Aperture Radars (SAR), as well as Satellite-based SAR (InSAR), are popular tools for geotechnical and environmental monitoring of mines. These, together with satellite based high resolution optical imagery, are now the primary remote sensing methods. The use of repeat imaging of a mine site can provide wide area coverage with very high resolution measurements of ground movement and erosion. Additionally, companies undertaking this work have made considerable progress in providing value added services to InSAR data and optical imaging. Examples of these services include land cover determination, feature extraction, persistent change detection and monitoring, terrain slope characterisation, soils modelling and saturated ground detection.

In addition to RAR, InSAR and SAR, considerable advances have been made in remote sensing by using a wide variety of different types of unmanned aerial/piloted vehicles (UAVs), commonly known as drones and also referred to as remotely piloted aircraft (RPA), in monitoring mine sites.

### Presenting companies include:

- 3D Laser Mapping Ltd
- Durham Geo Slope Indicator
- Evolution Mining
- Geomotion Australia
- Gold Fields Australia Pty Ltd
- GroundProbe Pty Ltd
- IDS Australasia Pty Ltd
- Newcrest Mining Limited
- Pells Sullivan Meynink
- Sitech (WA) Pty Ltd
- Softrock Solutions Pty Ltd

### Seminar Facilitator:



**Professor Phil Dight**  
Professor of Geotechnical Engineering  
Australian Centre for Geomechanics

## Management of Moving and Unstable Slopes Workshop

Thursday 4 May 2017

Effective management of moving and unstable slopes is an inherent part of the modern open pit mining practice.

This workshop provides a theoretical and practical framework for the understanding and management of moving and unstable slopes. The workshop deals with the actions and approaches appropriate for personnel and managers to resolve these adverse situations in a positive manner.

Underpinning all slope design is a geotechnical model for each slope. The workshop will provide an overview of geotechnical models and common failure mechanisms.

Critical for management of unstable slopes is an understanding of the slope modification options, including cutbacks, unloading, buttressing and depressurisation or a combination thereof that best suits the conditions at hand. The workshop will also provide guidance on how analysis can assist in evaluating the type and extent of remediation required.

Finally a number of case studies are presented covering a spectrum of failure models and remedial strategies.

### Workshop topics:

- Geotechnical models and failure mechanisms
- Monitoring and what it is telling the practitioner
- The remediation tool box
- The human element, effective communication
- Analytical tools and approaches, their advantages and disadvantages
- Case studies

### Workshop Facilitator:



**Mark Fowler**  
Managing Director  
Pells Sullivan Meynink

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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 \_\_\_\_\_

Fax \_\_\_\_\_

Mobile \_\_\_\_\_

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

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

Registrant contact details are intended to be published in the events authorised attendee list made available to event attendees, sponsors and exhibitors, who may contact you, including electronically, to promote their products and services.

- I give permission for my details to be included in the events attendee lists.
- Please indicate if you do NOT wish to receive 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/>

## PAYMENT DETAILS

Payment to accompany registration – credit card or EFT. Please contact the ACG for bank details. All prices include GST.

ABN 37 882 817 280

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

Credit Card\*

Visa  Mastercard  Visa and Mastercard are the only cards we accept

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Expiry Date: \_\_\_\_ / \_\_\_\_

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Signature \_\_\_\_\_

Receipt addressed to  Cardholder  Business

## 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 event if insufficient registrations are received.

## Instrumentation and Slope Monitoring Seminar (1730)

2-3 May 2017 | Novotel Perth Langley

	<b>Earlybird</b> Paid by 27 March 2017	<b>Standard</b> Paid after 27 March 2017
Standard	<input type="checkbox"/> 1,760	<input type="checkbox"/> 1,980
ACG Affiliate†	<input type="checkbox"/> 1,540	<input type="checkbox"/> 1,760
Student^	<input type="checkbox"/> 440	<input type="checkbox"/> 660

## Management of Moving and Unstable Slopes Workshop

(1740) | 4 May 2017 | Novotel Perth Langley

	<b>Earlybird</b> Paid by 27 March 2017	<b>Standard</b> Paid after 27 March 2017
Standard	<input type="checkbox"/> 770	<input type="checkbox"/> 990
ACG Affiliate†	<input type="checkbox"/> 550	<input type="checkbox"/> 770
Student^	<input type="checkbox"/> 220	<input type="checkbox"/> 440

All full registrations will receive event notes on USB, luncheons and refreshments.

† 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.

## CALLING FOR SPONSORSHIP

### INSTRUMENTATION AND SLOPE MONITORING SEMINAR

For more information, please contact [events-acg@uwa.edu.au](mailto:events-acg@uwa.edu.au)

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Management of Moving and Unstable Slopes Workshop, Brisbane, 9 September 2016 Testimonials:

"Great, professional talks, all really relevant"

"Best workshop I've been to"