

# Rheology

## Workshop

Perth, Western Australia, 22–23 June 2010

# REGISTRATION BROCHURE

### Background

This workshop will empower you with the basic understanding and questions required to address your operating issues. The workshop will cover rheology basics, measurement techniques, and the rheology applications associated with thickening, pumping, pipelining and storage discharge purposes.

*The word rheology is derived from the Greek words “rheos” meaning flow, and “logos” meaning science or study of. Hence, rheology measurements are performed to quantify how a solid, liquid, foam or gas deforms and flows when a stress is applied.*

### Workshop speakers and topics

Professor Paul Slatter, RMIT University (Workshop Leader); Dr Lionel Pullum, Consulting Engineer; Professor Peter Scales, University of Melbourne; Dr Mark Coghill, Rio Tinto Technology and Innovation.

Topics include; measurement techniques, thickening, pipe flow, pumping, tailings deposition, backfill rheology, storage discharge, mineral processing and concentrate pumping.

### Objective

The ACG will present a two day workshop that will tackle the complexities of paste preparation and the resulting rheology. This will enable attendees to further understand how slurry operations and minerals processing benefit from this rapidly evolving technology. The workshop will include hands on rheometry sessions and attendee numbers are limited.

### Who should attend the ACG workshop?

This workshop will be of particular interest to operators, researchers, superintendents and engineers who are responsible for the design, selection, operation and maintenance of mineral processing, slurry handling and tailings operations

### ACG Rheology Workshop Proceedings

Since 2003, the ACG has hosted numerous rheology workshops that have tackled the complexities of paste preparation and the resulting rheology. Our workshop proceedings will assist readers to understand how slurry operations and minerals processing benefit from rheology practice.

**Content:** rheological principles, flocculants, design parameters and thickener selection, effect of flocculation and preparation on rheology and case studies.

Please contact us to obtain copies of the proceedings of previous ACG Rheology Workshops and International Seminars on Paste and Thickened Tailings.

### Course Programme

Day 1, Tuesday 22 June 2010	
0830	Registration
0900	Rheology introduction – Paul Slatter, RMIT University
1015	Morning break
1045	Measurement techniques
1200	Thickening – Peter Scales, University of Melbourne
1300	Lunch
1400	Pipe flow – Paul Slatter, RMIT University
1515	Afternoon break
1545	Pumping – Lionel Pullum
1700	Day 1 close

Day 2, Wednesday 23 June 2010	
0800	Bus transfer to Rheochem Laboratory
0830	Rheochem site induction
0845	Laboratory session 1 – Basics
1000	Morning break
1015	Laboratory session 2 – Yield stress
1130	Laboratory session 3 – Flow curves
1245	Bus transfer to Esplanade Hotel Fremantle
1315	Lunch
1415	Tailings deposition and backfill rheology – Mark Coghill, Rio Tinto Technology and Innovation
1530	Afternoon break
1600	Discussion and case studies
1700	Workshop close

### Workshop Laboratory Host



[www.rheochem.com.au](http://www.rheochem.com.au)

### Venue

ESPLANADE HOTEL FREMANTLE  
54 Marine Terrace, Fremantle, 6160 WA  
Ph: +61 8 9432 4000  
Reservation enquiries: [reservations@ehf.com.au](mailto:reservations@ehf.com.au)

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

AUSTRALIAN CENTRE FOR GEOMECHANICS  
Ph: +61 8 6488 3300  
Fax: +61 8 6488 1130  
[acginfo@acg.uwa.edu.au](mailto:acginfo@acg.uwa.edu.au)

# Rheology

code: 1004

## Workshop

Perth, Western Australia, 22–23 June 2010

# REGISTRATION

### Contact details

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

 Full Name \_\_\_\_\_  
(for use on certificate)

Position \_\_\_\_\_

Organisation \_\_\_\_\_

 Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Mobile \_\_\_\_\_

Email \_\_\_\_\_

### The following affiliated companies and individuals are entitled to affiliate member discounted rates

- AngloGold Ashanti Australia
- ATC Williams
- Barrick Gold of Australia Ltd
- BHP Billiton Iron Ore
- BHP Billiton Nickel West
- BHP Cannington
- Coffey Mining
- Fero Strata Systems Pty Ltd
- GHD Pty Ltd
- Gold Fields Ltd
- Golder Associates Pty Ltd
- Kalgoorlie Consolidated Gold Mines
- Newmont Asia Pacific
- Rio Tinto Iron Ore
- Snowden Mining Industry Consultants
- SRK Consulting

### Registration and further information

Please forward your completed expression of interest/ registration form to:

*Irene Neskudla*  
 Australian Centre for Geomechanics  
 PO Box 3296 – Broadway  
 Nedlands, Western Australia  
 AUSTRALIA 6009  
 Phone +61 8 6488 3300  
 Fax +61 8 6488 1130  
 acginfo@acg.uwa.edu.au  
 www.acg.uwa.edu.au  
 ABN 37 882 817 280

For event updates please visit  
[www.acg.uwa.edu.au/events\\_and\\_courses/current\\_courses](http://www.acg.uwa.edu.au/events_and_courses/current_courses)

### Payment details

All attendees will have their name, affiliation, address, telephone, fax and email address printed in the delegate list.

 Do not include my details in the event delegate list.

*Payment prior to the event commencement is a requirement.*

	Paid before 17 May 2010	Paid after 17 May 2010
<input type="checkbox"/> Standard registration	\$1,760.00	\$1,980.00
<input type="checkbox"/> ACG Affiliate member rate	\$1,485.00	\$1,760.00
<input type="checkbox"/> ACG Joint Venture partner rate	\$1,155.00	\$1,485.00
<input type="checkbox"/> Student rate (full-time only)^	\$440.00	\$660.00

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

All prices include GST

 Cheque enclosed for \$ \_\_\_\_\_

 (Please make cheques payable to *The University of Western Australia*. Please mail cheque to the ACG, see address below).

 Please debit VISA or MasterCard

                    

 Expiry Date:     (Visa or MasterCard only)

Name of Cardholder \_\_\_\_\_

Signature \_\_\_\_\_

Registration fee includes workshop proceedings, luncheons and refreshments.

### Delegate cancellations

- Up to 8 days before workshop commencement: an administration fee of \$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 fewer than 16 registrations are received.

### Event changes

The Australian Centre for Geomechanics (The University of Western Australia) reserve the right to make changes to programmes and speakers, or to cancel events if enrolment criteria are not met or when conditions beyond their control prevail. Every effort will be made to contact each delegate if the event is cancelled. Should the event not be held for any reason, our liability is limited to the event fee only.