Globally, open pits are being planned to significant depths, often beyond industry’s current experience and knowledge base. Present understanding of the mechanisms of slope behaviour and failure, and methods of stability analysis for such slopes, is considered to be lacking. This is not limited to the mining industry, this situation also pertains to civil engineering projects. In an attempt to bring together the state-of-the art developments in these fields, as well as new research and developments, the ACG looks forward to presenting Slope Stability 07.

Slope Stability 07 will provide a forum for mine owners and operators, consultants, civil engineers, suppliers and researchers to exchange views on how to promote best practices in slope stability monitoring and management. In today’s highly competitive and environmentally accountable world the exchange of knowledge is a necessity.

More than 150 delegates from throughout Australia and overseas are expected to attend Slope Stability 07. Many will submit manuscripts to a technical programme that features more than 50 comprehensive and highly applicable papers emphasising innovation and the application of the latest technologies by mine operations and civil engineers in their quest to improve safety, productivity and environmental stewardship. The ACG looks forward to welcoming you to Perth in September 2007.

KEYNOTE SPEAKERS
Antonio Karzulovic, A.Karzulovic & Asoc. Ltda, Chile
John Read, CSIRO Exploration & Mining
Dick Stacey, University of the Witwatersrand, South Africa
Oskar Steffen, SRK Consulting, South Africa
Tim Sullivan, Pells Sullivan Meynink Pty Ltd
Day One Wednesday 12 September 2007

0730 REGISTRATION

0815 Welcome Address

0830 KEYNOTE: Mine Planning - Its Relationships to Risk Management, O. Steffen, SRK Consulting, South Africa

0900 Mining Rockmass Models - A Methodology for Collecting, Processing and Presenting Geotechnical Data in Three Dimensions, G. Dempers & C. Seymour, Dempers & Seymour Pty Ltd, Australia

0930 Geotechnical Characterisation of Waste Material in Very High Dumps with Large Scale Triaxial Testing, S. Linero M. & C. Palma C., SRK Consulting, Chile, R. Apablaiza V., Codelco Chile Division Andina, Chile

1000 MORNING BREAK

1030 Geotechnical Considerations in Integrated Surface Mine Design, M. Grenon & J. Hadjigeorgiou, Université Laval, Canada

1100 Pit Slope Design and Structural Analysis at the Jericho Diamond Mine Utilising Digital Photogrammetry, J.J. Mathis, Zosstrich Geotechnical, USA

1130 Obtaining Appropriate Design Parameters for Slopes in Highly Weathered Saprolites, A.B. Fourie, Australian Centre for Geomechanics, Australia, A. Haines, SRK Consulting, Australia

1200 Discussion

1220 LUNCH

1330 KEYNOTE: Hydro Mechanical Coupling in Open Pits, T. Sullivan, Pells Sullivan Meynink Pty Ltd, Australia


1430 Dealing with Uncertain Parameters in Rock Slope Stability Analysis, M. Pötsch, W. Schubert & G. Pischinger, Graz University of Technology, Austria

1500 AFTERNOON BREAK

1530 Establishing Slope Design Criteria at Batu Hijau - A Case Study, S. Leech, PT Newmont Nusa Tenggara, Indonesia

1600 Slope Design for Opencast Coal Mines at Rotowara, Huttly, New Zealand, J.D. Johnson, Tonkin & Taylor Ltd, New Zealand, D. Fergusson, Solid Energy New Zealand Ltd, New Zealand

1630 Rockmass Reinforcement Systems in Open Pit Excavations in Urban Area, Ž. Arbanas, University of Rijeka, Croatia, and Civil and Engineering Institute of Croatia, Croatia, M. Grebl, Civil and Engineering Institute of Croatia, Croatia, M.S. Kovačević, University of Zagreb, Croatia

1700 Discussion

1720 Poster Session

1750 CLOSE DAY ONE

POSTERS

Wall Optimisation - A Case Study from the Fimiston Open Pit, KCGM, Kalgoorlie, A.J. Beer, Coffey Mining, Australia, M.R. Morrongiello, Kalgoorlie Consolidated Gold Mines, Australia

Pit Slope Design Study - Deposit A, West Angelas, Western Australia, D. Casparis, Rio Tinto Iron Ore, Australia

A Geotechnical Toolbox to Maintain Ramp Access and Reduce Rockfall Risk as Used at Sunrise Dam Gold Mine, M. Cowan, M. Campbell & E. Hamman, AngloGold Ashanti Australia Ltd, Australia

Back Analysis Failure Inter-Ramp South Area (Rosario Pit), E. Santander A., E. Riveros I. & I. Smoje T., Collahuasi, Chile

Monitoring of a Large Wall Failure at Tom Price Iron Ore Mine, A. Day & J. Seery, Rio Tinto Iron Ore, Australia

* The Symposium programme is correct at time of brochure printing. For programme updates please visit www.slopestability07.com

Venue
Sheraton Perth Hotel
207 Adelaide Terrace
Perth, Western Australia, 6000
Special room rate from A$225.00 (GST incl.)
Phone: +61 8 9224 7777
Fax: +61 8 9224 7788
(Please refer to ACG’s Slope Stability 07 when making reservations).

The Sheraton Perth Hotel is located on the eastern fringe of the Central Business District, and 20 minutes from international and domestic airports. All accommodation reservations are to be made directly with the hotel. A list of alternate accommodation is available from www.slopestability07.com.

Carparking
Undercover self-parking is available for day and overnight use (subject to availability) at a rate of A$21.00 per vehicle, per day. Additional parking is available at the Perth Concert Hall and on the street (fees apply).
Day Two Thursday 13 September 2007

THEME: NUMERICAL MODELLING OF ROCK SLOPE

0820 Introduction

0830 KEYNOTE: Slope Stability in High Stress and Hard Rock Conditions, T.R. Stacey, University of the Witwatersrand, South Africa

0900 Extension, Stress, and Composite Failure Mechanisms for Bedded Rock Masses, J.V. Simmons, Sherwood Geotechnical and Research Services, Australia, P.J. Simpson, BHP Billiton Mitsubishi Alliance Coal, Australia

0930 Developing a Numerical Model for a Deep Open Pit, E. Hamman, AngloGold Ashanti Australia Ltd, Australia, M.A. Couthard, M.A. Couthard & Associates, Australia

1000 MORNING BREAK

1030 Modelling Brittle Fracture in Rock Slopes: Experience Gained and Lessons Learned, D. Stead, Simon Fraser University, Canada, J. Coggan, University of Exeter, UK, D. Elmo & M. Yan, Simon Fraser University, Canada


1130 Application of Hybrid Finite/Discrete Element Modelling for Back-Analysis of Rock Slope Failure Mechanisms, J.S. Coggan, R.J. Pike & T.D. Styles, University of Exeter, UK, D. Stead, Simon Fraser University, Canada

1200 Discussion

1220 LUNCH

1330 KEYNOTE: Open Pit Slope Problems in Engineering Practice, A. Karzulovic, A. Karzulovic & Assoc. Ltd., Chile

1400 Three Dimensional Modelling of the Plan Effect of Slope Curvature on Slope Stability, R. Armstrong & T.R Stacey, University of the Witwatersrand, South Africa


1500 AFTERNOON BREAK

1530 Numerical Assessment of Step-Path Failure of North West Wall of A154 Pit Diavik Diamond Mine, A. Karami, Golder Associates Ltd, Canada, S. Greer, Diavik Diamond Mines Inc., Canada

1600 Three-Dimensional Discontinuum Analysis of Structurally Controlled Failure Mechanisms at the Cadia Hill Open Pit, D. Sainsbury, Itasca Australia Pty Ltd, Australia, F. Pothitos, Ok Tedi Mining, Papua New Guinea, D. Finn, Newcrest Mining Ltd, Australia & R. Silva, Itasca, S.A.

1630 Transition from Surface to Underground Mining: Integrating Mapping, Monitoring and Modelling Data to Better Understand Complex Rockmass Interactions, E. Eberhardt, University of British Columbia, Canada, D. Stead & D. Elmo, Simon Fraser University, Canada, S. Dunbar & M. Scooble, University of British Columbia, Canada, A. Moss, Rio Tinto, UK, M. Sturzenegger & A. Vyzmensky, Simon Fraser University, Canada, R. Tollenaar & H. Eissa, University of British Columbia, Canada

1700 Discussion

1720 Poster Session

1750 CLOSE DAY TWO

1900 SYMPOSIUM DINNER

POSTERS

PhotogrammetryPlus for Rockmass Characterisation, Bench Face Surveying, and Blast Planning, A. Gaich, 3G Software and Measurement GmbH, Austria, M. Pötsch & W. Schubert, Graz University of Technology, Austria

Thrust Failure Mechanism for Slope Stability Analyses in Theory and Practice, K.N Karparov, Geocanadi cc, South Africa, M.F. Handley, University of Pretoria, South Africa

Design Criteria for Large Open Pits - Case Study, F. Pothitos, Ok Tedi Mining, Papua New Guinea, T. Li, Newcrest Mining Ltd, Australia

A Case Study of Managing and Reporting Risks in a Multi-National Company, D. Quinlivan, ModuSpec Australia Pty Ltd, Australia

Rock Slope Stability Assessment Based on Limit Analysis, A. Li & R. Merfield, The University of Western Australia, Australia

* The Symposium programme is correct at time of brochure printing. For programme updates please visit www.slopestability07.com

Symposium Dinner
Thursday 13 September 2007
Art Gallery of Western Australia
Pre-dinner drinks at 7:00pm, dinner at 7:30pm
Dress: smart casual.

Sponsorship
The symposium is an excellent platform to enhance your presence in the market and position your organisation as one of the leaders in the industry. Benefits include:
- Direct access to a niche target audience
- Increased brand awareness
- Achieving a high profile association with an innovative and credible industry event.

Display Stands
The display stands present a unique opportunity to meet face-to-face with more than 150 leading industry and research personnel attending the symposium. Morning and afternoon teas and lunch are served in the display stand area, ensuring maximum one-on-one interaction with the attendees.
Who Should Attend
This event has been extensively researched and designed for all open pit personnel, mine management, civil engineers, blasting specialists, slope monitoring and survey specialists, civil and mine engineering personnel, project leaders, consultants, contractors, researchers, suppliers and academics.

Networking
This ACG international event will attract some of Australia’s most influential decision makers in the mining industry, research and government. This event provides ideal opportunities to network, such as morning and afternoon breaks and the symposium dinner.

Event Changes
The Australian Centre for Geomechanics (The University of Western Australia) reserves 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(s) is cancelled. Should the event(s) not be held for any reason, our liability is limited to the event fee only.
Objectives

This pre-symposium forum is designed to explore and address the challenges associated with the monitoring of slope behaviour and failure at open pit mines. The forum will explore the emerging technologies and examine the strengths, weaknesses and applicability of digital photogrammetry, laser scanning, radar monitoring, satellite imagery and general geotechnical instruments, applied to slope monitoring. The forum will also see site-based industry personnel presenting an overview of their site monitoring experiences.

0800 REGISTRATION
Registration - Coffee - Welcome Introduction

0900 SESSION 1 - SITE EXPERIENCES
- Geita Gold Mine, Tim Williams, AngloGold Ashanti Ltd
- Prism Monitoring at Century Mine, Bruce Whittaker, Zinifex Century Mine
- Lihir Monitoring Experiences, R. McPherson, Lihir Gold Ltd, Papua New Guinea
- Integrated Geotechnical Monitoring Techniques in Current Use at BHPBIO’s Mt Whaleback Mine, Newman, Western Australia, P. Knight, Snowden Mining Industry Consultants, Australia
- Monitoring for Slope Stability at the Black Star Open Cut, Mount Isa
- Kennecott (KUCC), Martyn Robotham, Rio Tinto
- Slope Monitoring at Argyle – A Balanced Approach, Udeni Gunasekera, Argyle Diamonds Pty Ltd

1100 FACILITATED DISCUSSION

1200 LUNCH

1300 SESSION 2: SUPPLIER TECHNOLOGIES
- Radar Monitoring
  Optimal Utilisation of Slope Radar Systems, N. Harries, Groundprobe, Australia
  Reutech Radar System, J. de Beer, RRS, South Africa
- Prism
  Prism History - So Many Uses, B. Malone, Softrock Solutions, Australia
  Prism, N. Brown, Leica Geosystems AG, Switzerland
  I-Site, S. Wong, Vulcan Solutions, Australia
- Laser Scanner
  Automated Slope Deformation Analysis Using the Riegl Z420i Scanner, J. Reddington, C.R. Kennedy & Company Pty Ltd, Australia
  SiteMonitor - Wide Area Displacement Mapping Using a Laser Scanner, G. Hunter, 3D Laser Mapping, UK
  I-Site, J. Richards, Maptek Pty Ltd
- Satellite/GPS
  Satellite/GPS System, N. Brown, Leica Geosystems AG, Switzerland
  Futures - InSAR or GPS?, A. Place, Microsoft Visual Earth, Canada
- Digital Photogrammetry
  Using D3M Analyst for Slope Monitoring and Analysis, J. Birch, Adam Technology, Australia
  Rock Mass Characterisation using JointMetriX3D, A. Gaich, 3G Software & Measurement GmbH
- Sirovision, W. Robertson, CSIRO
- Miscellaneous Technologies
  General Geotechnical Instruments
  Slope Indicator
  Remote Monitoring of Potential Failures, C. Viska, Durham
  Geo-Slope Indicator, Australia
  Slope Minder
  Hydrology Database
  Microseismic

1600 FACILITATED DISCUSSION

1700 FORUM CLOSE

* The forum programme is correct at the time of brochure printing. For programme updates, please visit www.slopestability07.com
Your Investment

Title (Mr, Mrs, Miss, Ms, Dr, Prof) _______________________________________
Name ______________________________________________________________
Position _____________________________________________________________
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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 symposium delegate list.

Payment prior to the symposium is a requirement

☐ Cheque enclosed for $ ________________________________
(Please make cheques payable to The University of Western Australia. Please mail cheque to ACG, see address below).

☐ Please debit VISA or MasterCard

Expiration Date: ______________________ (VISA or MasterCard only)

Name of Cardholder __________________________________________________
Signature __________________________________________________________

Payment includes attendance at the symposium forum, luncheons, morning and afternoon teas (as supplied) and a copy of event proceedings. Please forward your completed registration form to the ACG.

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

Cancellation

Substitutions are accepted at any time. Cancellations are required in writing. Attendees who do not attend the symposium or forum or cancel on or after Monday 27th August 2007 are liable for the full registration fee.

All prices are GST Inclusive
ABN 37 882 817 280

Slope Stability 07 Symposium
12 - 14 September 2007

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Slope Stability 07 Symposium and Slope Monitoring Forum (combined events - reduced fees)
11 - 14 September 2007

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Optional Extra

☐ Slope Stability 07 Symposium Dinner | A$110.00

* Payment must be effected by 6 August 2007 to be eligible for early bird registration fee

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