More than 230 local and international mine closure practitioners have already registered to attend Mine Closure 2006! Join us in Perth next month to share and explore information about innovative mine closure strategies, processes and products to help minimise future environmental and social impacts. Papers from: Alcan Gove, Botswana, Elliot Lake, Canada, Mali, Mount Morgans, Murrin Murrin and Ranger.

A series of three international seminars on mine closure are planned for 2006–2008. At the conclusion of the Third International Seminar on Mine Closure a hardbound publication featuring selected papers from the 2006–2008 (Australia, Chile and South Africa) seminars will be produced.
Day One Wednesday 13 September 2006

0815 Welcome and Introduction A.Fourie, Australian Centre for Geomechanics
0830 Opening Address: Mine Closure – A Process, Not an Afterthought M.Adams, Iluka Resources Ltd

0845 The Business Case for Effective Mine Closure P.Dowd, Newmont Australia Ltd

0915 Sustainable Mine Closure – Issues and Lessons Learned R.Kunanyavagam, Rio Tinto

0945 Assessment of Landscape Function as an Information Source for Mine Closure D.Tongway, Australian National University & J.Ludwig, CSIRO Sustainable Ecosystems

1015 MORNING BREAK

1045 Why Do Mines Close? D.Laurence, University of New South Wales

1115 Sustainable Development and Risk Assessment in Mine Closure – Case Study Elliot Lake Uranium Mines, Canada M.Wiber & D.Berthelot, Rio Algom Ltd, Canada

1145 Planning for Closure in Mali G.Bradley, AngloGold Ashanti Ltd, Republic of Mali

1215 Criteria for Mine Closure Strategy – Examples of Great European Coal Mines C.Drebenstedt, Technische Universität Bergakademie Freiberg, Germany

1245 LUNCH


1415 Tailings Storage Facilities – Decommissioning Planning is Vital for Successful Closure H.Lacy & K.Barnes, Outback Ecology Services

1445 Landscape Reconstruction Using Analogues at Ranger Mine J.Hollingsworth, Earth Water Life Sciences Pty Ltd, J.Croton, Water & Environmental Consultants Pty Ltd, I.Odeh, University of Singapore E.Bui, University of Sydney & D.Klessa, Earth Water Life Sciences Pty Ltd

1515 AFTERNOON BREAK


1600 Western Australia’s Inventory of Abandoned Mine Sites C.Strickland & W.Ormbsy, Geological Survey of Western Australia

1615 The Wismut Remediation Project M.Lersow & P.Schmidt, Wismut GmbH, Germany

1630 Closure of Tailings Impoundment – Chilean Experience S.Dal Pozzo & C.Andrade, Golder Associates S.A., Chile, J.Watson, Golder Associates Africa Pty Ltd, South Africa & B.Griffin, Golder Associates Ltd, Canada

1645 The French Experience of Post Mining Management C.Didier, INERIS, France & J.Leilaup, Ministry in Charge of Economy, Finance and Industry, France

1700 Leading Practice Sustainable Development – Mine Closure Booklet C.Farrell, Minerals Council of Australia

1715 CLOSE DAY ONE

* The seminar programme is correct at time of brochure printing. For programme updates, please visit www.mineclosure2006.org
First International Seminar on Mine Closure Programme*

Day Two Thursday 14 September 2006

Plenary Addresses

0830 Moving Beyond Cash Flows – A Strategic Role for Finance G.Murray, Australian and New Zealand (ANZ) Banking Group
0900 The Application of Cover Systems for Mine Closure – Are We Doing it Right? W.Wilson, University of British Columbia, Canada

MORNING BREAK/ POSTER SESSION

1030 Towards a Climate Based Risk Assessment of Land Rehabilitation C.Hinz, G.McGrath & A.Hearman, Centre for Land Rehabilitation, UWA
1100 Understanding Waste Rock Dump Hydrology is Essential for Effective Closure Planning and ARD Management A.Wright, Metago Environmental Engineers
1130 Design, Construction and Performance Monitoring of the Large-Scale Waste Rock Cover System Field Trials at the Historic Mount Morgan Mine Site in Queensland, Australia O.Meiers, M.D.Kane & C.McCombe, O’Kane Consultants Inc., Canada
1200 Investigation of Hydrological Behaviour of In Situ Bauxite Residue for Closure and Rehabilitation Design N.Amoah, Worsley Alumina Pty Ltd, J.Phillips, GHD Pty Ltd & S.Vlahos, Worsley Alumina Pty Ltd
1215 Mine Closure and Reclamation – Some Practical Examples in Different Climatic Settings S.Barrett, Water Management Consultants Pty Ltd, G.Beale & R.Reidel, Water Management Consultants Inc., USA
1230 A Reflection and Analysis of the Waste Rock Dump Closure Strategies at Kidston Gold Mine D.Williams & D.Mulligan, The University of Queensland & N.Currey, Klohn-Crippen Berger
1245 Calculating a Realistic Security Bond and Assessing True Mine Closure Liabilities M.Wooley, URS Australia Pty Ltd & A.Hutton, GSS Environmental

LUNCH/ POSTER SESSION

1445 Optimising the Erosional Performance of Store and Release Covers Through Appropriate Landform Design G.McPhail & A.van Koersveld, Metago Environmental Engineers
1500 Innovative Mine Closure Design Based on Observations of Mine and Natural Analogues D.Williams, The University of Queensland & J.Kline, BHP Copper, USA
1515 An Approach to Deriving Surface Water Quality Criteria with Implications for Closure – Ranger Mine Case Study D.Jones, C.Humphrey, M.Lies & R.van Dam, Department of Environment and Heritage

AFTERNOON BREAK/ POSTER SESSION

1600 Case Study at BHP Copper Inc., Copper Mine and Smelter, San Manuel, Arizona T.Braun, SRK Consulting (U.S.) Inc., USA & J.Parker, BHP Copper Inc., USA
1645 Pilbara Iron’s Approach to Sustainable Development During Mine Closure – The Case Study of Greater Tom Price and Pannawonica Operations M.Moller, Sinclair Knight Merz, R.Flugge, Pilbara Iron & D.Murphy, Sinclair Knight Merz
1700 Tailings Dams – The Importance of Considering Closure at the Start of the Project K.Viveros & S.Barrera, Arcadia Geotechnica, Chile
1715 Properties and Quality of Soils and Nutrients of Plants on Cilacap Iron Sands Mine Sites A.Yulianto, PT Antam Tbk, Indonesia & I. Suwarno, Bogar Agricultural University, Indonesia

CLOSE DAY TWO

1930 Mine Closure 2006 Seminar Dinner

* The seminar programme is correct at time of brochure printing. For programme updates, please visit www.mineclosure2006.org
## Plenary Addresses

**0830**  
**Ecological Drivers in Mine Site Rehabilitation**  
A.Diaz & I.Green, Bournemouth University, UK, B.Smith, The Game Conservancy Trust, UK & I.Carrington, Bournemouth University, UK

**0900**  
**Developing Completion Criteria for Native Ecosystem Reconstruction – A Challenge for the Mining Industry**  
D.Nichols, Australian Centre of Minerals Extension Research

**0930**  
**Review of Environmental Performance Bonds in Western Australia**  
G.Cobby, Department of Premier and Cabinet, Western Australia

**1000**  
**MORNING BREAK**

**1030**  
**Incorporation of Terrestrial Invertebrate Data in Mine Closure Completion Criteria Adds Sensitivity and Value**  
J.Majer & G.Orabi, Curtin University of Technology & L.Bisevac, Charles Darwin University

**1100**  
**Indicators of Success for Mine Site Restoration in Tropical Moist Forest Ecosystems**  
D.Jasper, Outback Ecology Services, E.Veneklaas, University of Western Australia, D.Nichols, Environment Management & Research Consultants & D.Tongway, Australian National University

**1130**  
**Quantification of Rehabilitation Success on Mine Site Waste Dumps**  
S.Thompson, ATA Environmental & G.Thompson, Edith Cowan University

**1200**  
**Operational Environmental Systems for Mine Closure**  
R.Steedman, GHD Pty Ltd

**1215**  
**Monitoring for Rehabilitation Completion and Mine Closure**  

**1230**  
**Legislatng for Quicker and Better Rehabilitation**  
I.Wilson, Environmental Protection Agency

**1245**  
**Phoenix – A Mine Environment Data Visualisation and Management System**  

**1300**  
**LUNCH**

**1400**  
**Landform Stability (2)**

**1415**  
**Assessing Landscape Reconstruction at the Ranger Mine Using Landform Evolution Modelling**  
J.Lowry, K.Evans, D.Moliere, ERISS & I.Hollingsworth, Earth and Water Life Sciences Pty Ltd

**1430**  
**Thresholds, Triggers and Time – Erosion Risk on Evolving Reclaimed Landforms after Bauxite Mining in the Darling Range, Western Australia**  
F.Mengler & R.Gilkes, Centre for Land Rehabilitation, UWA

**1445**  
**AFTERNOON BREAK**

**1515**  
**Where To From Now?**

**1530**  
**Discussion facilitators:** E.Bingham, BHP Billiton, USA, A.Fouire, Australian Centre for Geomechanics, D.Glenister, Environ Australia Pty Ltd, M.Tibbett, Centre for Land Rehabilitation, UWA, E.Smyth, Centre for Sustainable Resource Processing & D.Tongway, Australian National University

**1645**  
**Farewell and Mine Closure 2007**  
M.Tibbett, Centre for Land Rehabilitation, UWA

**1700**  
**Mine Closure 2006 Seminar Farewell Drinks and Nibbles**

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* The seminar programme is correct at time of brochure printing. For programme updates, please visit www.mineclosure2006.org
Objectives
The ACG will present a highly interactive one-day workshop that will equip attendees with the knowledge and skills to prepare and implement a Tailings Storage Facility (TSF) Manual at their respective operations. Participants will develop an understanding of the different components of a successful and effective operations manual. The workshop will examine the relevant operating standards and environmental requirements, discuss the business benefits of an operations manual and develop a skeleton framework of a typical manual.

Who should attend the workshop?
This practical workshop is designed for mine managers, site supervisory personnel, environmental officers and operators, and those involved in the day-to-day management and operation of a TSF. The workshop is limited to 40 attendees only.

Programme*
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:00</td>
<td>Registration</td>
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<td>08:30</td>
<td>Introductory session</td>
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<td>• Relevant legislation</td>
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<td>• Consequences of not having an operations manual</td>
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<td>• Group exercise</td>
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<td>09:30</td>
<td>Business benefits</td>
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<td>• Considering the life-cycle of a typical TSF</td>
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<td>• Essential components of an operations manual</td>
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<td>10:30</td>
<td>Morning break</td>
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<td>11:00</td>
<td>Building the manual (I)</td>
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<td>• Operations</td>
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<td>• Monitoring</td>
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<td>• Auditing</td>
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<td>12:30</td>
<td>Lunch</td>
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<td>Building the manual (II)</td>
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<td></td>
<td>• Data management and reporting</td>
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<td>• Emergency procedures</td>
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<td>• Facility closure</td>
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<td>Building the manual (III)</td>
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<td>• Implementation</td>
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<td>• Roles and responsibilities: budgeting</td>
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<td>• Competency standards and training requirements</td>
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<td>• Change management</td>
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<td>16:45</td>
<td>Summarise the learning outcomes, closeout and assessment</td>
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<tr>
<td>17:00</td>
<td>Workshop close</td>
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* The workshop programme is correct at the time of brochure printing. For programme updates, please visit www.mineclosure2006.org
Your investment

Name _______________________________________________________
Position ____________________________________________________
Organisation ________________________________________________
Address ______________________________________________________
______________________________________________________________
Phone __________________________ Fax __________________________
Email _________________________________________________________

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

☐ I do not want my details to be included in the seminar delegates list.

Payment prior to the seminar/workshop is required.

☐ Cheque enclosed for $______________________________
(Please make cheques payable to the University of Western Australia. Please mail cheque to ACG).

☐ Please invoice against purchase order ______________________

☐ Please debit VISA or MasterCard

Expiry Date: __________ (Visa or MasterCard only)

Name on Cardholder __________________________________________
Signature ___________________________________________________

Payment includes attendance at the seminar and/or workshop, luncheons, morning and afternoon teas and event proceedings. Please forward your completed registration form to the ACG by mail or fax.

Jill Hollinshead
Australian Centre for Geomechanics
PO Box 3296 – Broadway
Nedlands, Western Australia
AUSTRALIA 6009
Phone: +61 8 6488 3300
Fax: +61 8 6488 1130
Email: acginfo@acg.uwa.edu.au

Cancellation
Substitutions are accepted at any time. Cancellations are required in writing. Attendees that do not attend the seminar/workshop or cancel on or after Monday 28th August 2006 are liable for the full registration fee.

* GST Inclusive

ABN 37 882 817 280

Media Sponsor

EMN

ACG Preparing and Implementing a Tailings Storage Facility Operations Manual Workshop

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<tr>
<td>Student registration (full time only)</td>
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First International Seminar on Mine Closure

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<td>Speaker registration</td>
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<td>ACG affiliate/JV partner registration</td>
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<tr>
<td>Mine Closure 2006 Seminar Dinner</td>
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First International Seminar on Mine Closure & ACG Tailings Storage Facility Workshop (combined events – reduced fees)

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Event Changes

The Australian Centre for Geomechanics and the Centre for Land Rehabilitation (The University of Western Australia) reserve the right to make changes to programs 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.

Seminar Ice Breaker Function and Pre-registration Tuesday 12 September 2006 Sheraton Perth Hotel

Pre-registration will be held from 5.00 – 6.00pm, immediately outside the exhibition area where there will be an opportunity to meet fellow delegates at this informal and social welcome function. Dress: casual

Seminar Dinner
Thursday 14 September 2006
Royal Perth Yacht Club, Perth
Pre-dinner drinks at 7.00pm, dinner for 7.30pm.
Dress: smart casual

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