Main Conference: 25th and 26th June 2013
Interactive Rehabilitation Workshop Day: 27th June 2013
Venue: Traders Hotel, Brisbane, Australia

ALIGNING ECOLOGY WITH ECONOMICS
APPLYING SUSTAINABLE ECOLOGY TO A COMMERCIAL MINE SITE

INNOVATIVE STRATEGIES TO MEET ENVIRONMENTAL CLOSURE CRITERIA WITHIN A COMMERCIAL CULTURE

KEY SPEAKERS INCLUDE:

Professor Kingsley Dixon
Chair
SOCIETY FOR ECOLOGICAL RESTORATION AUSTRALASIA

Professor Mark Tibbett
Chair of Soil Ecology, National Soil Resources Institute, Department of Environmental Science and Technology
CRANFIELD UNIVERSITY, UK

Dr. Hishmi Jamil Husain
Environment Superintendent
RIO TINTO, INDIA

Dee Murdoch
Associate Director
AECOM

Dr Nigel Fisher
Soil Microecologist
KLEINFELDER ECOBIOLOGICAL

Sean FitzGibbon
Post-doctoral Wildlife Researcher
CENTRE FOR MINED LAND REHABILITATION

Professor R.J. Rickson
National Soil Resources Institute, Department of Environmental Science and Technology
CRANFIELD UNIVERSITY, UK

Vladimir Pacheco
Research Fellow
CENTRE FOR SOCIAL RESPONSIBILITY IN MINING

Dr Jan Green
Manager Corporate Sustainability and Environment,
IDEMITSU RESOURCES AUSTRALIA

Dr Robert Simmons
Senior Lecturer
NATIONAL SOIL RESOURCES INSTITUTE (NSRI)

Adam Pratt
Principal Soil Scientist
SOIL WATER GROUP

Steven Pearce
Senior Environmental Geoscientist
O’KANE

Peter Chapman
Associate, Senior Tailings Engineer,
GOLDER ASSOCIATES

Jeremy Durbin
Senior Environmental Consultant & Team Leader – Environmental Assessment & Management
SKM

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Dear Mining Rehabilitation Professional,

Mining IQ is proud to announce the Mine Rehabilitation and Closure 2013 agenda.

Attending this event will allow you to learn from and engage in valuable discussions with rehabilitation specialists. The event offers you a unique opportunity to hear from experts, vastly experienced in planning, performing, and implementing rehabilitation techniques and closure planning to meet both the commercial and environmental requirements.

Why attend Mine Rehabilitation and Closure 2013?

A This is the premier rehabilitation event providing exclusive, practical and operational advice for understanding and meeting closure criteria

B Hear case studies from some of the most experienced and knowledgeable environmental experts in the industry on how to improve ecosystem reclamation

C Understand the true value of progressive and adaptive rehabilitation and the economic and environmental benefits you’re currently missing out on through ineffective rehabilitation processes

Book by 19th March 2013 to take advantage of the $600 early bird discount! Simply call 02 9229 1000, email registration@iqpc.com.au or book online at: www.minerehab.com.au

WHAT WILL YOU LEARN ABOUT MINE REHABILITATION AND CLOSURE?

Practical, firsthand case studies from practitioners, academics and leading industry experts on:

CLOSURE CRITERIA AND REHABILITATION PLANNING
Meeting the requirements of a mine’s closure criteria without penalty or delay through improved rehabilitation planning

PROGRESSIVE REHABILITATION
Benefiting from the environmental and commercial advantages of progressive rehabilitation techniques

ESTABLISHING A CULTURE OF REHABILITATION
Implementing an environmentally commercial culture of adaptive and integrated rehabilitation

WHO WILL YOU MEET AT MINE REHABILITATION AND CLOSURE 2013?

- Manager Closure Planning
- Manager Reclamation
- Environmental Officer/Manager
- Rehabilitation Manager/Superintendent
- Environmental Scientist/Supervisor
- Environmental Advisor
- Mine Managers
8.30 Registration and Welcome Coffee

9.00 Opening Remarks from the Chairman

9.10 REHABILITATION PLANNING
Optimising Success and Avoiding Disaster
- Front-end loading - Planning from the beginning the skill, workforce and equipment rehab requirements before closure to avoid unnecessary expense
- Using reference sites to understanding land usage
- Landform planning and ecosystem development
- Implementing an adaptive strategy for contingency planning

Professor Mark Tibbett
Chair of Soil Ecology, National Soil Resources Institute, Department of Environmental Science and Technology
CRANFIELD UNIVERSITY, UK

9.50 KEYNOTE PRESENTATION
Do we have the capacity for ecological restoration?
- What regulators and industry need to avoid
- The challengers of mining in a biodiversity hotspot
- The knowledge gaps in ecological restoration
- Taking mine restoration beyond gardening

Professor Kingsley Dixon
Chair
SOCIETY FOR ECOLOGICAL RESTORATION
AUSTRALASIA

10.30 Morning Refreshments and Networking Break

11.00 Long Term Biodiversity Monitoring in Mine Rehabilitation
- Baseline and long-term monitoring before mining – BACI scientific design
- Progressive rehabilitation
- Cumulative impacts
- Departmental and Community acceptance

Dr Jan Green,
Manager Corporate Sustainability and Environment,
IDEMITSU RESOURCES AUSTRALIA

11.40 Does Closure = Relinquishment? The Path to Successful Relinquishment.
- Building relationships to last a (mine) lifetime
- Determining the potential environmental impacts throughout your project lifecycle
- Planning and implementing progressive rehabilitation
- Relinquishment - the importance of maintaining records and data for closure

Jeremy Durbin,
Senior Environmental Consultant & Team Leader – Environmental Assessment & Management
SKM

12.20 Lunch and Networking Break

13.20 Re-Establishing an Ecosystem
- How to encourage rehabilitation through mine site buy-in
- Understanding what this means for environmentalists
- Industry case studies

Sean FitzGibbon
Post-doctoral Wildlife Researcher
CENTRE FOR MINED LAND REHABILITATION

14.00 DESIGNING FOR CLOSURE
Progressive Rehabilitation and Surface Water Management of a Dry Stacked Coal Rejects Facility
- Development of a dry rejects facility
- Provision for progressive rehabilitation and diversion of clean water during the life of the facility
- Considerations of local guidelines
- Surface water management and the potential for off-site impacts

Peter Chapman
Associate, Senior Tailings Engineer,
GOLDER ASSOCIATES

14.40 Afternoon Refreshments and Networking Break

15.10 WASTE MANAGEMENT
Mine Site Geochemistry - Rehabilitation Success Factors
- Mine site geochemistry: why it matters, why do things go wrong
- Success factors: Using geochemistry to guide successful rehabilitation
- Waste management: Using advanced geochemical waste scheduling techniques to improve rehabilitation success
- Waste legacies: Using geochemical forensic analysis techniques to determine how legacy sites have evolved (for better or worse)
- Lessons learnt from industry examples

Steven Pearce
Senior Environmental Geoscientist,
O’KANE

15.50 ROUNDTABLE DISCUSSION
Coping with Differing Ecologies and Environments
- Using adaptive management processes to implement change whilst not affecting production
- Coping with rehabilitation with severe environmental changes
- Accounting for changeable rainfall and its effect on rehabilitation
- Avoiding acid drainage on a mine site

Facilitated by the Conference Chair

16.30 Close of Conference Day 1 & Networking Drinks Reception

19.00 Networking Dinner and Drinks for All Delegates and Speakers
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<td>SOIL EROSION</td>
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INTERACTIVE WORKSHOPS
THURSDAY, 27 JUNE 2013

WORKSHOP A:
09.00 – 12.00

UNDERSTANDING AND CONTROLLING SOIL EROSION

Prevention is Better than Cure: The Causes, Consequences and Control of Soil Erosion in Mine Rehabilitation

Preventing the causes of soil erosion benefits not only the economics of a mine site but the ecological and legislative requirements also.

This unique workshop provides an essential series of interactive sessions and participatory exercises that means participants will:

- Understand the role of soil erosion and its control in landscape reclamation and restoration
- Understand the drivers, mechanics and processes of erosion of slope forming materials
- Undertake erosion risk assessment using a range of techniques, including the use of erosion prediction models (practical exercise)
- Recognise the onsite and offsite impacts of erosion and sediment production
- Understand the principles of soil erosion control and soil conservation
- Select, design and evaluate appropriate techniques for the protection of soil and other slope forming materials, using vegetation, inert materials and/or engineering structures (case study exercise)

About Your Workshop Leader:
Professor R.J. Rickson
National Soil Resources Institute, Department of Environmental Science and Technology
CRANFIELD UNIVERSITY, UK

Professor Jane Rickson has over 20 years of teaching and research experience in the fields of soil erosion and soil conservation. She is a geomorphologist by background, specialising in land resource management and the control of land degradation. She undertook her Masters course in Land Resource Management, followed by a PhD in the Use Of Geotextiles For Soil Erosion Control. She has studied the processes of soil erosion, using this knowledge to identify effective control strategies, so conserving soil resources. She has worked in Europe, Nepal, India, China, Kenya, Ethiopia, Swaziland, USA, Bangladesh, Morocco and Thailand. She has published her research interests extensively in journals, books and articles, including a “Technical Specification and Market Study of Potentially Important Jute Geotextiles” (CFC/IJO). She is sole editor of “Conserving our Soil Resources” (CAB International) and co-author of “Slope Stabilisation and Erosion Control: a Bioengineering Approach”

WORKSHOP B:
13.00 – 16.00

DELIVERING EFFECTIVE REHABILITATION

Monitoring and Manipulating of the Soil Biota for Success

This informative and interactive workshop will provide expert insight into some of the key fundamentals when considering effective rehabilitation.

Specifically designed for environmental managers, regulators and rehabilitation professionals who wish to understand more about how the biology of the soil functions and how it can be used in the monitoring and management of mine site rehabilitation.

Participants will:
- Understand the size, composition and activity of the soil biological community and its control on plant community assembly and growth.
- Understand the roles of different trophic levels of the soil biota and their roles in nutrient cycling and decomposition processes.
- Recognise the importance of plant-microbe symbioses and how these can be manipulated.
- Know what is required to monitor soil ecological development in context.

About Your Workshop Leader:
Professor Mark Tibbett
Chair of Soil Ecology, National Soil Resources Institute, Department of Environmental Science and Technology
CRANFIELD UNIVERSITY, UK

Professor Mark Tibbett is a soil ecologist with a wide range of interests related to plants-soil interactions and feedbacks, mycorrhizas in ecosystems, decomposition (including taphonomy), microbial physiology and ecology, and microbially mediated processes in soil. His research portfolio includes soil carbon sequestration, nutrient cycling, metals in the soil-plant system, food security, bioremediation, metallophytes and mine site reclamation.

Current clients include:
- Australian Research Council
- Natural Environment Research Council
- Energy Institute
- Greening Australia
- BHP Billiton
- Chevron
- Rio Tinto
- Idemitsu Kosan
- CSIRO
- Magellan Metals
- Mineral Resources Authority (PNG)

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MINE REHABILITATION AND CLOSURE 2013

Main Conference: 25th and 26th June 2013

Interactive Rehabilitation Workshop Day: 27th June 2013

Venue: Traders Hotel, Brisbane, Australia

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Please send me _______ set(s) of AUDIO COMPACT DISCS and PRESENTATIONS CD at $878.90 ($799 plus GST) or $603.90 ($549 plus GST) Presentations CD only

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TERMS OF PAYMENT

* Payment must be received by IQPC prior to 5pm AEST on the cut-off date.

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REHABILITATION AND CLOSURE 2013

View the official hotel for the event and they have negotiated event

The Traders Hotel Brisbane is the official hotel for the Mine Rehabilitation and Closure 2013 event and they have negotiated event

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