

PROGRAM



**Short Course on
Practical Monitoring for
Improved Environmental Performance in the Minerals Industry**
Brisbane, Qld
22 June – 24 June 2009

Monday 22 June 2009		Presenters
8.15 am	Registration	
8.30 am	Introduction – Participant Background and Expectations	Mr Bruce Barrie ACMER
8.40 am	Monitoring Overview	Dr Owen Nichols EMRC
9.10 am	Queensland Legislative Requirements for Assessment and Monitoring	Mr Tony Bradshaw Queensland DERM
9.55 am	The Business Case for Monitoring	Dr Owen Nichols EMRC
10.20 am	Morning Break	
10.50 am	Characterisation of Soils, Overburden and Wastes - Surveying Methodologies	Emer Prof Clive Bell ACMER
12.20 am	Questions and Discussion	Speakers
12.30 pm	Lunch Break	
1.15 pm	Erosion Monitoring	Mr Cameron Vacher Landloch Pty Ltd
Water Monitoring		
2.00 pm	Water Sampling Exercise	Dr Ross Smith Hydrobiology Pty Ltd
2.50 pm	Monitoring Program Design and Water Quality	Dr Ross Smith Hydrobiology Pty Ltd
3.25 pm	Afternoon Break	
3.55 pm	Monitoring Program Design and Water Quality cont'd	Dr Ross Smith Hydrobiology Pty Ltd
4.30 pm	Monitoring Techniques for Mine Site Discharges	Mr Peter Scott HLA/ENSR
5.10 pm	Discussion	All Speakers
5.20 pm	End of sessions for Day 1 Network Drinks (until 6 45pm)	

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Tuesday 23 June 2009		Presenters
8.15 am	Registration	
8.30 am	Water Monitoring – Surface Water Geochemistry & Acid and Metalliferous Drainage	Mr Peter Scott HLA/ENSR
10.00 am	Water Monitoring – Sampling and Measurements of Storage Facilities	Mr David Salmon Golder Associates Pty Ltd
10.30 am	Morning Break	
11.00 am	Groundwater and Groundwater Monitoring Systems	Mr David Salmon Golder Associates Pty Ltd
11.30 am	Water Monitoring Program Design Exercise	Mr David Salmon Golder Associates Pty Ltd
12.30 pm	Questions and Discussion	Speakers
12.40 pm	Lunch Break	
1.40 pm	Monitoring Techniques for Coal Seam Water and Dissolved Gas	Dr Sue Vink Centre for Water in the Minerals Industry (CWIMI)
2.20 pm	Sampling Waste Rock Dumps, Ore Stock Piles, TSFs, Tailings, Heap Leach Pads and Underground Mines	Mr Peter Scott HLA/ENSR
3.30 pm	Afternoon Break	
4.00 pm	Monitoring of Contaminated Sites	Mr Peter Scott HLA/ENSR
5.00 pm	Wrap-up Session	All Speakers
5.15 pm	End of sessions for Day 2	

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Wednesday 24 June 2009		Presenters
8.15 am	Registration	
8.30 am	Biological Monitoring	Dr Ross Smith Hydrobiology Pty Ltd
9.20 am	Case Study - FRC Environmental	Speaker tbc FRC Environmental
9.45 am	Practical Guidelines for Sampling Temporary Waters	Dr Ross Smith Hydrobiology Pty Ltd
10.10 am	Sediment Sampling in Ephemeral Streams and Marine Environments	Dr Ross Smith Hydrobiology Pty Ltd
10.30 am	Morning Break	
11.00 am	Sediment Sampling in Ephemeral Streams and Marine Environments (continued)	Dr Ross Smith Hydrobiology Pty Ltd
11.20 am	Monitoring Wetlands CRL Case Study	Dr Owen Nichols EMRC Mr Paul Smith Consolidated Rutile Limited
12.25 pm	Lunch Break	
Data Handling and Interpretation		
1.25 pm	Phoenix – A Mine Environment Data Visualisation, Analysis & Management System	Dr Alex Pudmensky & Dr Laurence Rossato CMLR - The University of Queensland
2.15 pm	Data Handling, Management and Interpretation	Dr Owen Nichols EMRC
3.00 pm	Questions and Discussion	
3.10 pm	Afternoon Break	
3.35 pm	Chain of Custody – Practical Lessons from an Operating Mine Site	Mr Greg Ritchie Cowel Gold Mine
4.20 pm	Water Sampling Exercise –Data Analysis Exercise	Dr Ross Smith Hydrobiology Pty Ltd
5.05 pm	Wrap Up Session	All Speakers
5.15 pm	End of Short Course	