

# PROGRAM



**Short Course on  
Practical Monitoring for Improved Environmental Performance in  
the Minerals Industry  
20-22 October 2009  
Singleton, New South Wales**

<b>Tuesday 20 October 2009</b>		<b>Presenters</b>
8.15 am	Registration	
8.30 am	Introduction – Participant Background and Expectations	<b>Mr Ron McLean &amp; Mr Bruce Barrie</b> SMI Knowledge Transfer
8.40 am	Monitoring Overview	<b>Dr Owen Nichols</b> EMRC
9.00 am	Legislative Requirements for Assessment and Monitoring NSW (DPI – Environmental Sustainability Branch)	<b>TBC</b>
9.45 am	The Business Case for Monitoring	<b>Mr Mark Nolan</b> RTCA <b>Dr Owen Nichols</b> EMRC
10.10 am	Questions and Discussion	<b>All Speakers</b>
10.20 am	Morning Break	
10.45 am	Air Emissions Monitoring	<b>Mr Robin Ormerod &amp; Mr Aleks Todoroski</b> PAE Holmes
12.30 pm	Lunch Break	
1.15 pm	Air Emissions Monitoring (cont'd)	<b>Mr Robin Ormerod &amp; Mr Aleks Todoroski</b> PAE Holmes
1.55 pm	Group Work Session	<b>Mr Robin Ormerod &amp; Mr Aleks Todoroski</b> PAE Holmes
2.30 pm	Monitoring of Dust – Case Study	<b>Mr Robin Ormerod &amp; Mr Aleks Todoroski</b> PAE Holmes
2.50 pm	Afternoon Break	
3.15 pm	Noise and Blast Monitoring	<b>Mr Martti Warpenius</b> Consultant
5.00 pm	Questions and Discussion	<b>All Speakers</b>
5.15 pm	Network Drinks	
6.00 pm	End of Day 1	

# PROGRAM



**Short Course on  
Practical Monitoring for Improved Environmental Performance in  
the Minerals Industry  
20-22 October 2009  
Singleton, New South Wales**

Wednesday 21 October 2009		Presenters
8.15 am	Registration	
8.30 am	Introduction to Monitoring of Rehabilitation	<b>Dr Owen Nichols</b> EMRC
8.50 am	Characterisation of Soils, Overburden and Wastes – Sampling Methodologies	<b>Emer Prof Clive Bell</b> ACMER
10.20 am	Questions and Discussion	<b>All Speakers</b>
10.30 am	Morning Break	
11.00 am	Monitoring for Ecosystem Services – Can We See the Forest AND the Seeds?	<b>Dr Simone Simpson</b> UNE
11.30 am	Assessment of Rehabilitation Success – Vegetation Monitoring	<b>Dr Owen Nichols</b> EMRC <b>Mr Matthew Newton</b> Umwelt Pty Ltd
12.45 pm	Lunch Break	
1.30 pm	Case Study – Rio Tinto Coal's Hunter Valley Operations – Alluvial Land Project – 'Rehabilitation of Class One Agricultural Land'	<b>Mr Bill Baxter</b> RTCA
2.00 pm	Assessment of Rehabilitation Success – Fauna Monitoring	<b>Dr Owen Nichols</b> EMRC
2.30 pm	Case Study – Auditing Rehabilitation Performance – Xstrata Coal	<b>Mr John Watson</b> Xstrata Coal
3.00 pm	Questions and Discussion	<b>All Speakers</b>
3.15 pm	Afternoon Break	
3.40 pm	Group Work Session Checklist for Designing a Rehabilitation Monitoring Program	<b>Dr Owen Nichols</b> EMRC
4.30 pm	Questions and Discussion	
4.45 pm	End of sessions for Day 2	

# PROGRAM



**Short Course on  
Practical Monitoring for Improved Environmental Performance in  
the Minerals Industry  
20-22 October 2009  
Singleton, New South Wales**

<b>Thursday 22 October 2009</b>		<b>Presenters</b>
8.15 am	Registration	
8.40 am	The Role of Research and Monitoring in Leading Practice Rehabilitation Outcomes – Xstrata's Mt Owen Coal Mine	<b>Mr Mike Cole</b> <b>Dr Yvonne Nussbaumer</b> CSER
9.40 am	Morning Break	
10.10 am	Field Visit – Leave for RTCA Buffer zone site and Archerfield site visits, along the way the delegates can stop and observe a dust monitoring station	
11.00 am	Arrive RTCA Buffer zone site: Practical exercise on baseline data collection from an analogue site	<b>Bill Baxter</b> RTCA <b>Dr Owen Nichols</b> EMRC
12.00pm	Arrive Archerfield site: Observe monitoring of baseline studies in Woodlands	<b>Bill Baxter</b> RTCA
1.00pm	Lunch Break	
1.45pm	Questions and Discussion	<b>SMI Knowledge Transfer</b>
2.00pm	End of Short Course	