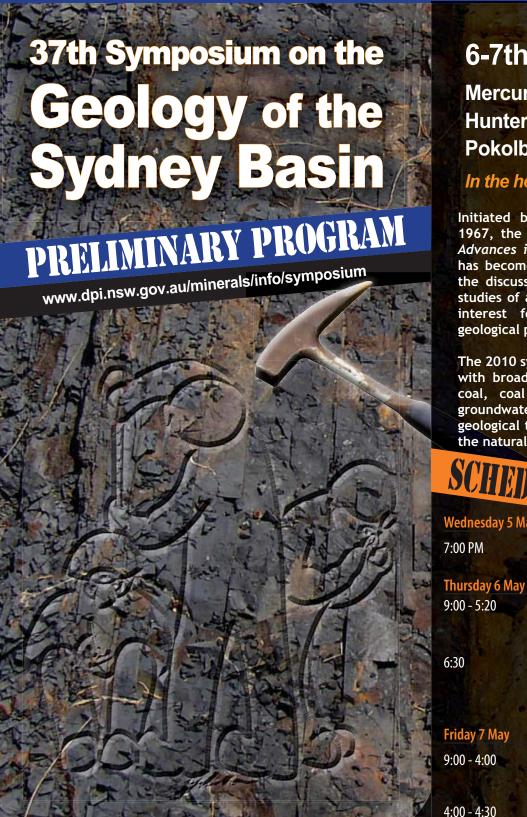


COALFIELD GEOLOGY COUNCIL OF NEW SOUTH WALES in conjunction with

Industry &



6-7th May 2010

Mercure Resort Hunter Valley Gardens, Pokolbin

In the heart of the Hunter Valley

Initiated by the University of Newcastle in 1967, the long-running series of symposia on Advances in the Geology of the Sydney Basin has become a well-established focal point for the discussion of research findings and other studies of academic, industrial and community interest for one of the most significant geological provinces in Australia.

The 2010 symposium aims to continue this role, with broad coverage of fundamental geology, coal, coal seam gas, mineral, energy and groundwater resources, developments geological technology and geological aspects of the natural and urban environment.

SCHEDULE & HIGHLIGHTS

Wednesday 5 May

Welcome BBQ

Riesling Room, Mercure Resort

9:00 - 5:20 Day 1 Symposium

Opening Session One, with Session Two (A) & (B) running parallel after lunch.

Symposium Dinner Shiraz Room, Mercure Resort.

> Welcome wine reception followed by 3 course formal dinner with a quest speaker.

Friday 7 May

9:00 - 4:00 Day 2, Symposium

> Session One (A) & (B) running parallel, followed by closing Session Two.

Post-symposium afternoon coffee

Hunter Region Branch





Mine Managers Association of Australia

Registration Enquiries:

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COALFIELD GEOLOGY COUNCIL OF NEW SOUTH WALES in conjunction

in conjunction with





6-7th May 2010

Mercure Resort Hunter Valley Gardens, Pokolbin Program

Program - Day 1 Thursday 6 May 2010

Registrations 8:15 - 9:00

Session One (Open)

Cilaii.	malcolli ives
9:00	Welcome & Announcements from the Chair
9:15	Ralf Oppermann
	Application of Hi-Res Fault Imaging Technology in the Resource Industries
9:45	Kaydy Pinetown
	Delineation of Coal Seam Gas domains in the Hunter Coalfield, Sydney Basin
10:15	J. B. Ross and L. Webb
	Groundwater supplies across the Southern Sydney Basin – the Importance of the Geological structure
10:45	Morning Tea
11:15	Brad Mullard
	NSW Energy Resources - Now and In the Future; Kenneth Mosher Memorial Lecture
11:45	Zach Casley, Oil Bertoli, Clare Mawdesley, Grenville Davies & Doug Dunn
	Benchmarking Estimation Methods for Coal Resource Estimation
12.15	Gareth Cooper & Graeme Beardsmore
	Geothermal Systems Assessment - Understanding risks in geothermal exploration in the Sydney Basin
12.45	Lunch

Session Two (A)

Chair:	John Edwards			
1:45	Peter Hatherly, Terry Medhurst & Binzhong Zhou			
	The Geological Strata Rating and its derivation from geophysical logs and seismic reflection data			
2:15	George Poropat			
	Correlaton of 3D Deformation Measurement and Slope Stability Radar			
	Monitoring			
2:45	Hamish Guthrie			
	Whittle optimisations in coal			
3:15	Afternoon Tea			
3:45	M. Campbell & R. England			
	Options for Sink/Float Analysis - Economic & Technical Review			
4:15	Dick Sanders			
	Novel Coal Interpretation Strategies			
4:45	Scott Thomson			
	Reservoir Pressure, Stress and Tectonics			
5:15	Summing up & Announcements			
5:20	Close of Day 1			

Session Two (B)

Chair:	Harry Bowman
1:45	Andrew Bray
	Tectonic subsidence in the Sydney Basin during the Late Permian to Mid Triassi
2:15	Kevin Ruming
	East Australian Sand River
2:45	Ray Nolan
	Wingecarribee Swamp – Its Rise and Fall in Geological Terms
3:15	Afternoon Tea
3:45	J.G. Bailey, L. Hugo, & A. Callendra
	Char from Tailings - Waste to fertiliser and soil ameliorant: a win-win situation
4:15	Phillip Blevin, Bruce Chappell & Heejin Jeong
	Heat producing potential of igneous rocks within and underlying the
	Sydney Basin: Some preliminary observations
4:45	J.G. Bailey & M. Davis
	Feasibility of Mineral Carbonation in Serpentines of the Great Serpintine
	Belt, Bingara to Barraba, NSW
5:15	Summing up & Announcements
5:20	Close of Day 1



COALFIELD GEOLOGY COUNCIL OF NEW SOUTH WALES in conjunction in conjunction with





6-7th May 2010

Mercure Resort Hunter Valley Gardens, Pokolbin Program

Program - Day 2 Friday 7 May 2010

Registrations 8:15 - 9:00

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Chair: **Marianne Harvey** 9:00 Welcome to Day 2 & Announcements 9:15 Abouna Saghafi A tier 3 method for estimating fugitive emissions from open cut coal mining: Application to Hunter Coalfield 9:45 **Scott Thomson** Gas Layering in the Subsurface: Implications for Greenhouse Gas Emissions 10:15 James Douglas & B. F. J. Kelly 3D Geological Modelling, and Basin Scale Assessment of Carbon Storage Potential in the Sydney basin 10:45 **Morning Tea** 11:15 Saju Menacherry, Alexandra Golab & John Kaldi A regional to site-specific assessment for potential CO₂ geological storage in the Sydney Basin, Australia Lila W. Gurba, Alexandra Golab & Szczepan Polak 11:45 CO2 Geological Storage Opportunities in the Gunnedah Basin, and the Southern Bowen Basin, NSW 12:15 J. G. Bailey & K. A. Hyland Geosequestration potential of the Clare Sandstone, southern Gunnedah Basin 12:45 Lunch

Session One (B)

Chair:	Kevin Kuming		
9:00	Welcome to Day 2 & Announcements		
9:15 Colin Ward, David French, Maria Dubikova, Ken Riley &			
	Zhongsheng Li		
	Mobility of trace elements from fresh and long-stored fly ashes		
9:45	Colin Ward, Ken Riley, David French, Leanne Stephenson, Owen		
	Farrell & Zhongsheng Li		
	Leaching of trace elements from coal stockpiles in the Sydney and Collie		
	Basins		
10:15	Lei Zhao		
	A Comparative Study of the Mineralogy and Geochemistry of the Bulli and		
	Great Northern Coal Seams, Sydney Basin		
10:45	Morning Tea		
11:15	David Och, Ian Graham, Horst Zwingmann, Robin Offler &		
	Lin Sutherland		
	Significance of the Era Beach Dyke and Fault zone, Royal National Park, NSW		
11:45	Andrew Bray		
	Numerically Modelling the Formation of the Lapstone Structural Complex		
12:15	lan Graham, Zoe Hatzopoulos, Lin Sutherland & Horst Zwingmann		
	The age, heochemical affinity and significance of the Maroota Basalt,		
	Hawkesbury, NSW		
12:45	Lunch		

4:30

Close of Symposium

Session	Two (Close)
Chair:	Adrian Hutton
1:45	Chairul Nas
	Quality of Kalimantan Coking Coals Indonesia
2:15	Jolanta Jaworska, Aristeo Mantaring & Andrew Alexander
	New geochemical and thermal data from RSDP Munmorah–1 and RSDP Vales Point–1 shed new light to the geothermal potential and the petroleum system in the north–easter
	Sydney Basin
2:45	N. Bryant, W. McLean, J. Ross & S. Scarff
	Use of Environmental Isotopes for aquifer characterisation and connectivity assessment during CSG Exploration in the Hunter Valley, NSW
3:15	D. Hunt, P. Dundon & J. Van Den Akker
	The Interpretation and Implications of Transient Groundwater Responses to Longwall Mining in NSW
3:45	Summing up, thanks & farewell
4:00	Post-symposium coffee session



COALFIELD GEOLOGY COUNCIL OF NEW SOUTH WALES in conjunction in conjunction with



Symposium on the

6-7th May 2010 Mercure Resort Hunter Valley Gardens, Pokolbin

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Thurs 6 May	Symposium Dinner		1 Person \$50 🗆 or 1	Person + Guest \$100 □
Thurs 6 & Fri 7 May	Symposium		1 Person \$75* □	
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