



## **ASEG NSW BRANCH**

# **MARCH 2004 MONTHLY MEETING**

**DATE:** Wednesday 17<sup>th</sup> March 2004  
**VENUE:** Rugby Club - Level 3, Rugby Place (near Pitt and Alfred St), Sydney  
**TIME:** 5:30 pm for 6 pm

### **Geophysical Interpretation of Potential Field Data A Basis for Interpretation of Basin Architecture and Mineral Occurrence**

**Vladimir David – Department of Mineral Resources**

#### **Abstract**

Geophysical interpretation and forward modelling of magnetic and gravity data has been conducted on the three-intracratonic, back-arc, Silurian/Devonian basins of NSW – the Hill End Trough, Cowra Basin and Cobar basin.

By establishing the likely tectonostratigraphic setting of the basins, the geophysical modelling results, when combined with structural analysis and palinsplastic reconstruction, has provided a mechanism through which the likely basement architecture of the basins can be determined. The results have been used to evaluate the relationship between the interpreted basement architecture and the pattern of mineral occurrences within the basins.

**Next meeting: 21<sup>st</sup> April 2004**

#### **Reminders:**



#### **ASEG 17th Conference & Exhibition Integrated geophysics in a changing world**

15-19 August 2004, Sydney Convention and Exhibition Centre,  
Darling Harbour.

<http://www.aseg.org.au/conference/Sydney/default.asp>

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