



# S . M . E . D . G .



**SYDNEY MINERAL EXPLORATION DISCUSSION GROUP**

## **NOTICE OF MEETING**

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- DATE:** Thursday 28<sup>th</sup> October 2004 - 5.30pm for 6pm
- VENUE:** 1st Floor, Rugby Club, Rugby (Crane) Place, Sydney
- SPEAKER:** Geoff Taylor
- TOPIC:** “Hyperspectral imagery for rock and mineral mapping at Broken Hill”

Imaging spectrometry (hyperspectral imagery) has been acquired for the Broken Hill Block. Interpretation of the imagery for selected test sites demonstrates the capability to map a wide range of lithologies and minerals. Minerals mapped include iron oxides, garnets, micas, clay minerals and amphiboles. Lithologies mapped include all the lithologies present in the region and the surficial sediments. HyMap is also able to map certain lithologies critical to mineral exploration in the region, such as gahnite-bearing quartz, manganese-bearing garnetiferous rocks and sodium-rich micas indicative of likely mineral alteration.

Geoff Taylor graduated from the University of Birmingham with BSc Honours in Geology and an MSc in Mineral Chemistry in 1968. After stints in industry in the UK, a six year period as a geochemist in the Solomon Islands lead him to undertake a PhD at the University of New England in Armidale, NSW, which was completed in 1977. His head was firmly brought below the clouds with a three year spell as a geologist in the quarry industry before he was appointed to the University of New South Wales in 1980 as a Lecturer in Economic Geology. Having admitted at his interview that he had once looked at a Landsat image he was encouraged to become the School's remote sensing expert. His main activity is now teaching and research into geological and environmental applications of remote sensing.

**Future meetings:** 18<sup>th</sup> November Ian Stockton – Exploration around CSA mine at Cobar  
Friday 17<sup>th</sup> December – Xmas cruise - bookings open soon

**Web page:** Check the SMEDG web page for more details <http://smedg.org.au>

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### **Organising Committee:**

Steve Collins 9489 6836 Vicki Diemar 9488 7573 Lindsay Gilligan 9901 8301 Phil Hellman 9858 3863 Kim Stanton-Cook 0411 504512 Chris Torrey 9482 8833