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SYDNEY MINERAL EXPLORATION DISCUSSION GROUP

NOTICE OF MEETING

- DATE:** Thursday 24th February 2004 - 5.30pm for 6pm
- VENUE:** 1st Floor, Rugby Club, Rugby (Crane) Place, Sydney
- SPEAKER:** Russell Korsch
- TOPIC:** “McArthur River basin Deep Seismic Survey: Implications for Tectonics and Mineralisation”

A deep seismic reflection survey was undertaken in late 2002 to examine the fundamental basin architecture and fault geometries of the Batten Trough in the McArthur Basin, Northern Territory. There appears to be no evidence in the seismic data for the Batten "Trough" as a separate depocentre. Most of the seismic profile is dominated by a series of west-dipping faults forming part of a major east-directed thrust belt. The Emu Fault is a strike-slip fault, containing a positive (contractional) flower structure. The seismic data suggest that the current depositional model for the McArthur River deposit needs to be reassessed, and also opens up the possibility for other mineralisation styles in the region.

Russell Korsch works for Geoscience Australia where he is Group Leader of the Mineral Provinces Group. He is also the Deputy CEO for the Predictive Mineral Discovery Cooperative Research Centre (pmd**CRC*). His research interests are the structural and tectonic evolution of orogenic belts and adjacent sedimentary basins, including the interpretation of deep seismic reflection data.

Future meetings: 17th 18th March Australian Industrial Minerals Conference.
AIMS, AIG, SMEDG Conference – See web page for details

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

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