



S . M . E . D . G .



SYDNEY MINERAL EXPLORATION DISCUSSION GROUP NOTICE OF MEETING

- DATE:** Thursday 29th November 2001 - 5.30 for 6:00pm
- VENUE:** 1st Floor, Rugby Club, Rugby (Crane) Place, Sydney
- SPEAKER:** Jane Barron
- TOPIC:** Garnets, Diamonds, Diatremes and Subduction at Bingara in the New England orogen of New South Wales

At Bingara-Copeton, NSW Australia, alluvial diamond deposits are Cainozoic 'headless' placers in the Phanerozoic New England Orogen, more than 1500km distant from the nearest craton. Recent studies have focussed on unusual mineralogy associated with these. In addition, their unique morphology and surface features suggest a local origin. Formation of these non-cratonic diamonds has been linked to subduction, either through direct crystallisation within a downgoing slab, or through more indirect mechanisms related to subduction. The complex Phanerozoic tectonic history of subduction-accretion and tectonic underplating in the New England region, together with garnet-based mineralogical and geochemical evidence strongly supports a local origin for the diamonds that 'belong' in this tectonic setting.

Jane Barron is a well known Sydney based consulting petrologist and a regular SMEDG attendee.

- Future talks:** 13th December - Bob Close - Exploration in Arabia, an Oman Perspective
- Web page:** Check the smedg web page for more details
<http://smedg.org.au>
- Please Note:** If you are happy to receive SMEDG notices by email instead of by post you can assist us by notifying Steve Collins.
email: scollins@smedg.org.au

Don't forget the Christmas Cruise - 21 December - see attached notice

Organising Committee:

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