

Poster 10

University of London Group for Geological Research in Southeast Asia

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The University of London Group for Geological Research in Southeast Asia was established in 1982 by members of the academic staff of the University of London. At present the Group comprises some 40 academic and research staff, and research students who maintain an extensive range of geological and geophysical research programmes, both on-land and offshore, in the area from Northern Thailand, through Malaysia and Indonesia to Papua New Guinea and the northern margins of Australia.

Major current projects include:

1. Sorong Fault Zone: a multi-disciplinary study aimed at determining the origin and history of movement of the tectonic terranes, which form the islands between the Bird's

Head of Irian Jaya and Sulawesi in eastern Indonesia.

2. Australia-Banda Arc Collision Zone: aimed at determining the present structure of the collision zone and the history of sedimentation and tectonic evolution of the NW Australian Shelf, the development of the Banda Arcs and the progressive development of the collision zone in time and space.
3. Sumatran Forearc: aimed at determining the origin of the materials and the structural development of the Sumatran accretionary complex exposed in the outer arc islands offshore Sumatra and the development of the forearc basin.
4. Sumatran Fault System: aimed at establishing the origin and directions and amounts of movement of crustal blocks incorporated in the Sumatran Fault Zone and the effects of

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these movements on the sedimentation histories of the Sumatran forearc and back arc basins.

Techniques employed in these studies range from measurement of logged stratigraphic sections, petrographic, sedimentological and biostratigraphic analyses of rock samples, chemical analysis of sedimentary, volcanic and ophiolitic rocks using XRF, ICP, electron microprobe and isotopic dating methods, gravity measurements and a comprehensive programme of palaeomagnetic determinations. Members of the group have participated in marine geological and geophysical cruises in the area, including ODP legs, utilising seismic (and deep-seismic) profiling, gravity and magnetic measurements and side-scan sonar imaging (GLORIA and SeaMARC II).

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