

## PhD Research Studentships 2006

The School of Earth Sciences and Geography expects to have one or more University research studentships commencing in October 2006.

The Geodynamics and Crustal Processes Research Group was designated a 'flagged group' at the last Research Assessment Exercise (RAE 2001), with a minimum 4 rating. Research laboratories include an experimental high-pressure petrology laboratory, SEM/TEM/probe suite, a fluid inclusion and laser-Raman laboratory, confocal laser scanning microscopy, a palaeomagnetic and rock-magnetic facility, an ICP-AES laboratory and the Natural Environment Research Council ICP-MS Facility.

Projects available are listed below and are open to students who have, or expect to obtain in 2006, a good honours degree (1<sup>st</sup>, 2:1 or their equivalent), or an MRes or MSc in an appropriate subject. Further information about the projects, and how to apply can be obtained from **Dr Stella Bignold, School of Earth Sciences and Geography, Kingston University, Kingston upon Thames, Surrey KT1 2EE (tel: 020 8547 8850 or e-mail: s.bignold@kingston.ac.uk)**. Candidates are encouraged to contact the appropriate first-named supervisor to discuss projects. Supervisors' contact details, and information about the School, can be found on our website at <http://www.kingston.ac.uk/esg/> The closing date for applications will be 31 March, and interviews are expected to be held in early May.

**Magmatic and fluid processes responsible for the localisation and development of zones of epithermal mineralization within the Coromandel Volcanic Zone, New Zealand.** *Dr. S. Bryan, Prof. A. Rankin, Dr R. Worland (Newmont Waihi Operations) & Dr B. Davies (Newmont Waihi Operations)*

**Volcanic structural architecture and magmatic evolution of Waihi/Waitekauri grabens, New Zealand, and timing relationships to mineralisation.** *Dr. S. Bryan, Prof. A. Rankin, Dr R. Worland (Newmont Waihi Operations) & Dr B. Davies (Newmont Waihi Operations)*

**Early Mesozoic K-adakites and I-type granitoids of the eastern margin of the Tibetan Plateau: geochronology, geochemistry, petrogenesis and tectonic implications.** *Prof. J.D. Clemens, Prof. N. Petford & Prof. L. Xiao (Wuhan)*

**Combined numerical and geochemical modelling of short lived (U-Series) isotope disequilibria in active arcs and ocean island volcanoes.** *Prof N. Petford & Prof S. Turner (Macquarrie University, Australia)*

**3D geomechanics of massive volcano collapse due to internal pressurisation: numerical and field investigations.** *Prof. E. Bromhead, Prof N. Petford & Dr D. Bryon*

**Core formation under dynamic conditions: a numerical and experimental study.** *Prof. N. Petford & Prof. T. Rushmer (Vermont, USA)*

**Structural, Fluid and geochemical controls on Archean, shear- hosted Au mineralization in the Loulo mining district, Mali.** *Prof.A.H.Rankin, Dr P.J. Treloar, Mr P Harbidge (RandGold)*

**Magmatic and fluid processes responsible for the localisation and development of zones of epithermal ore mineralization associated with the large silicic Sierra Madre Occidental igneous provinces in Mexico.** *Prof. A. Rankin, Dr S. Bryan, Dr L. Ferrari (UNAM, Mexico) & Dr A. Camprubi (UNAM, Mexico)*

**Hurricane Activity and Global Climate Change.** *Dr D.N. Thomas and Dr. N.K.W. Cheung*

**Evolution of the geomagnetic field strength through the Cenozoic: studies of igneous rocks from Tasmania and New South Wales, Australia.** *Dr D.N. Thomas & Dr F.L. Sutherland (Australian Museum)*

**Palaeointensity studies of dyke swarms from the Mid-Proterozoic Gardar Province, South Greenland: an evaluation of inner core growth hypotheses.** *Dr D.N. Thomas & Dr J.D.A. Piper (Liverpool)*

**The great Pakistan earthquake 2005: causes and long-term predictions.** *Dr P.J. Treloar & Dr D.N. Thomas*

**The Lewisian complex: still an enigma?** *Dr P.J. Treloar & Prof. J. Clemens*