



The Queensland Geologist

Bi-monthly Newsletter of the Geological Society of Australia Inc. Queensland Division
Volume 107 No. 2 – April/May 2007

INSIDE THIS ISSUE: .

- Call for nominations for the GSAQ Dorothy Hill and NC Stevens medals
- Call for Nominations for GSAQ Committee
- New Members
- Geological library for sale
- GSAQ Field Conference

IMPORTANT DATES:

Tuesday 17 April: GSAQ Ordinary Meeting and Annual General Meeting:

- Topic:** Kimberlite Occurrence in Allochthonous Mesozoic Oceanic Crusts: an Exploration Paradigm Shift and New Opportunities for Diamond Discovery
- Speaker:** Prof. Ken Collerson, Professor of Earth Sciences, University of Queensland & Director, Uivak Pty, Ltd
- Where:** The Theodore Club, 333 Adelaide Street, BRISBANE
- Time:** 5:15 for 6pm; finger food and cash bar
- Cost:** \$6 Members, \$8 Non-member, Students, \$2. Finger food & drinks

Kimberlite is a volatile-rich ultrabasic rock and an important carrier of diamond to the Earth's surface. It is generally assumed that kimberlite intrusions only occur in continental crust, and that commercial diamond pipes are restricted to Archaean and Early Proterozoic age crust. However, despite considerable expenditure on Greenfield/Brownfield exploration in these areas, there has not been a single new World Class discovery for more than 15 years. This will have economic consequences, as the demand for gem quality diamonds continues to grow in a market where supply is becoming tighter. As a result, price per carat is projected to rise significantly during the next decade, making diamond exploration an attractive, yet challenging proposition with potentially very significant commercial benefit.

Recently discovered kimberlite pipes and dykes in oceanic crust in Oman necessitate paradigm revision. These 150 Ma old intrusions occur in tectonically transported Mesozoic oceanic crust. I will use petrology, mineral chemistry, as well as chemical and isotropic proxies to: (1) show that the Oman kimberlites, like ocean island basalts, were derived during plume activity associated with dispersal of Gondwana; (2) question the involvement of sub-continental mantle in kimberlite magmatism; (3) explain the occurrence of diamonds in non-cratonic settings; and (4) account for the presence of lower mantle and transition zone mineral inclusions in diamond.

The new paradigm questions the necessary involvement of sub-continental mantle in kimberlite genesis, accounts for the spatial distribution of kimberlite intrusions, and explains occurrences of alluvial diamond with unknown sources in Phanerozoic orogenic belts. Furthermore, it provides a new rationale for Greenfield/Brownfield target selection that could significantly reduce diamond exploration costs and thereby enhance exploration success.

23-25 June GSAQ Field Conference (see inside for details)

- Topic:** Aspects of Mesozoic geology of the Nambour Basin, Esk Trough and the Permo-Triassic geology of the Gympie Province

9-13 July 2007: GSA Specialist Group in Tectonics and Structural Geology (SGTSG) Conference 2007: 'Deformation in the Desert'

Where: Crowne Plaza ,Alice Springs, NT

Fee Structure

- Early Bird Member (before 20 April 2007) \$ 525
- Early Bird Non Member (before 20 April 2007) \$ 650
- Early Bird Student Member (before 20 April 2007) \$ 275
- Early Bird Student Non Member (before 20 April 2007) \$ 525
- Full Fee member \$ 650
- Full Fee Non Member \$ 750
- Full Fee Student Member \$ 400
- Full Fee Student Non Member \$ 650

To register online or to obtain more details go to: www.sgtsg.gsa.org.au/events

email: Alan.Collins@adelaide.edu.au

29 July-6 August 2007: International Union for Quaternary Research

Where: Cairns, Australia

Website: <http://www.inqua2007.net.au/>

10-12 September 2007: The Bicentennial Conference of the Geological Society of London (the world's oldest national scientific and professional society for Earth scientists is 200 years old this year)

Where: QEII Conference Centre, London

Theme: Earth Sciences in the Service of Society Four parallel oral sessions over two days and a plenary session on Day 3 will feature invited speakers, all international leaders in their fields, reporting on the state of the science across four broad themes. A series of pre- and post-conference excursions will visit many of the most important geological sites of the British Isles.

Registration now open. website <http://www.geolsoc.org.uk>

22-25 September 2008: Australian Earth Sciences Convention (including the 19th AGC)

Where: Perth

This conference will be a joint event with the Australian Institute of Geoscientists (AIG). The committee has appointed the PCO and expect to soon start advertising more detailed information. The committee is seeking input from members and specialist groups who would like to run a session or present a hot topic. The conference will occur during the International Year of Planet Earth. If you want to know more please email AESC2008@gsa.org.au



**THE INTERNATIONALLY RENOWNED
INFORMAL WEEKLY GET-TOGETHER FOR EXPLORERS AND MINERS
UNION JACK'S ALE HOUSE –**

English, Irish, Scottish & Welsh Pub - 127 Charlotte St, Brisbane CBD 5.30pm
on every Wednesday evening if your work/spouse/budget/health allows

Call for nominations for the GSAQ Dorothy Hill and NC Stevens medals

The Dorothy Hill medal is awarded for contributions to the advance of geological knowledge in Queensland through publication of original research. The N.C. Stevens medal recognizes contributions to the geological community and/or promotion of public awareness of Earth Sciences in Queensland.

A written justification that will form the basis for a citation must accompany each nomination and should be forwarded to our secretary. Nominations for the Dorothy Hill Medal should preferably include a comprehensive list of publications by the nominee. Nominations will remain current for a period of five years.

Details of the guidelines are available on the Queensland Division's website at (<http://www.queensland.gsa.org.au>). Nominations will need to be received by mid April for consideration at the April committee meeting in time for the awards night in May.

Call for Nominations for GSAQ Committee

Included with this newsletter, you should have received a nomination form for the GSAQ Committee. Alternatively obtain a copy from our website <http://qld.gsa.org.au>. Election of a new committee will be held at the AGM in April. **Due to pressure of work commitments and/or burnout, some of the present long-standing executive and committee members will not be renominating this year. To ensure that the Division remains viable, it is essential that we have an active committee.** Please nominate yourself or someone else for a position on the committee or pass it on to someone who you think might like to contribute to the Division. We would particularly welcome younger members and also members from industry.

New Members

Michael S Crighton	Ordinary Member
Rodney Holland	Ordinary Member
Nicholas Ryan	Ordinary Member
James Horan	Ordinary Member
Gilbert J Price	Ordinary Member
Michael Hawtin	Student Member
Sandra Mary Howden	Student Member
Arne Fabian Scherrenberg	Student Member
Peter Hoiles	Ordinary Member

Membership renewals

A snapshot of the member renewals is as follows:

Mid-October: 2123 membership renewals mailed from head office (339 for Qld Division)

29th March: 1958 renewals received (308 for Qld Division 90.6% renewal)

If you haven't been receiving TAG or AJES lately, perhaps you forgot to renew and you have become un-financial. Therefore, now is the time to renew your membership. **(Note: to make sure you stay in touch and to subtly remind you, the Queensland Division will continue to send the electronic version of the newsletter for at least another 12 months).**

The **login members** area on the GSA website will now take you to a secure site linked to the GSA database where you can browse your membership details, make a payment online or view the Member Register electronically.

Sale of geological library

Chris Gregory is selling his library that includes various books (some rare), AIMM Monographs, BMR Reports and Bulletins and a comprehensive collection of Australia-wide 1:250 000 Explanatory Notes. The condition varies. None are in mint condition having been on the shelf for many years and some have been used in the field, but most are almost as new. Many maps have never been unfolded. Chris can email a list if you are interested in making an offer for all or part of his library. His contact details are: 1 Katunga St, Kenmore, Qld 4069, Phone 07 33786477, Mobile 041 96 77 365, Email cmg099@gmail.com.au (to avoid his address being picked up by spammers, I have omitted the 'at' symbol)

GSAQ Field Conference

The GSA, Qld Division, AIG, academia and exploration industry are seeking to revive the “Queens Birthday long weekend excursion” to points of geological and exploration interest. Due to lack of accommodation in the area of interest on the Queens Birthday weekend, the actual dates had to be moved to 23-25 June 2007.

The plan is to cover aspects of Mesozoic geology of the Nambour Basin, Esk Trough and the Permo-Triassic geology of the Gympie Province.

Epithermal, mesothermal, porphyry and breccia-related mineralisation will be viewed on route.

The excursion will cover mine site visits to the Cracow and Mount Rawdon mines, which will incorporate viewing recent exploration core and open cut outcrops. (No underground trips will be possible due to the numbers).

Day 1 will be travelling through Gympie, Kilkivan, Goomeri to Gayndah (twin share Motel accommodation).

Day 2 will be travelling to Cracow (mine site visit) and surrounding geology. If time permits on the way back to Gayndah, visit Eidsvold Igneous Complex and mineralisation, then back to Gayndah (Motel Accommodation).

Day 3 will be travelling to Mount Rawdon (mine site visit) via Mount Perry (late lunch) and Biggenden (if enough time?) and returning to Brisbane approx 7pm.

Requirements for the trip (mine site visits) are high visibility vests and steel capped boots.

The trip, including 2 nights accommodation, excluding meals will cost in the vicinity of \$250-300 To confirm interest (to enable bookings to be placed) please contact

Friedrich von Gnielinski (Treasurer of GSAQ)
at 33629362 or email: friedrich.vongnielinski@nrm.qld.gov.au

or Doug Young (AIG)
at 32364188 or email: d.young@findex.net.au.

Note: places may be limited depending on demand.

Request for sponsorship for GSAQ Field Conference

The GSAQ and AIG are seeking sponsorship for the June excursion to offset costs to individuals and to cover the costs of the field guide. Sponsors will be acknowledged in advertising, flyers and in the field guide.

The committee wishes to acknowledge that logistical support has already been offered by the Geological Survey of Queensland (Department of Mines and Energy), and also Newcrest Mining Limited (Cracow) and Equigold NL (Mount Rawdon) who have confirmed access to their mines including inspection of cores and parts of the operations (2-3 hours each).



Geological Society of Australia Inc, Queensland Division

**NOMINATION FORM
EXECUTIVE COMMITTEE AND REGIONAL REPRESENTATIVES**

Nominations for Executive Committee for 2007/2008 are now being accepted.

I,(full name)
agree to accept nomination for the position of (please circle one):

Executive Committee

- Chair
- Vice-Chair
- Honorary Secretary
- Honorary Treasurer
- Membership Secretary
- Newsletter Editor
- Committee Member (no limit to numbers)

Regional Representatives

- Central Queensland
- Northern Queensland
- Northwestern Queensland

Nominated by:

Seconded by:

Signed: Date:

Please **mail or fax** your nominations today.

Paul Blake
Honorary Secretary
C/- Geological Survey of Queensland
Block A, 80 Meiers Rd
Indooroopilly QLD 4068
Ph. (07) 3362 9332
Fax (07) 3362 9343

Further expressions of interest can be sent via e-mail to: paul.blake@dme.qld.gov.au

Queensland Committee 2006-2007

<i>Position</i>	<i>Phone</i>	<i>Fax</i>	<i>E-mail</i>
Chairman			
Dr Gregg Webb	3864 2804		ge.webb@qut.edu.au
Vice-Chairman			
A/Prof. Sue Golding	3365 1159	3365 1277	s.golding@earth.uq.edu.au
Secretary and Webmaster			
Dr Paul Blake	3362 9332	3362 9343	paul.blake@dme.qld.gov.au
Treasurer, Membership Secretary & Video Library			
Mr Friedrich von Gnielinski	3362 9362	3362 9343	vongnielinski@optusnet.com.au
Committee Members			
Mr Ian Withnall	3362 9363	3362 9343	ian.withnall@optusnet.com.au
Dr Laurie Hutton	3362 9347	3362 9343	laurie.hutton@dme.qld.gov.au
Mr Warwick Willmott	3379 6485		willmott@powerup.com.au
Mr Ben Cohen			b.cohen@uq.edu.au
Dr Stephen McLoughlin	3864 2329		s.mcloughlin@qut.edu.au
Mr Peter Hwang	3258 6413		peter.hwang@freehills.com
Mr David Jones	3423 1041		jonesd@bigpond.net.au
Mr Matthew Ng	4923 0712		qmmatt_ng@yahoo.com.au
AIG Representative			
Mr Doug Young	3369 6025		d.young@findex.net.au
Central Queensland Regional Representative			
Mr Kyle Waye			Kyle.J.Waye@mainroads.qld.gov.au
Newsletter Editor			
Mr Ian Withnall	3362 9363	3362 9343	iwithnall@optusnet.com.au
Education Subcommittee			
vacant			
Awards Convenor			
Dr Laurie Hutton	3362 9347	3362 9343	laurie.hutton@dme.qld.gov.au
GSA Publications			
Mr Warwick Willmott	3379 6485		willmott@powerup.com.au

General correspondence should be addressed to our secretary:

Dr Paul Blake, GPO Box 1820, Brisbane Qld 4001.

For subscription and address changes please contact the GSA's main office:

Sue Fletcher, Business Manager, GSA, 706 Thakral House, 301 George St, Sydney, NSW 2000.

Phone: (02) 92902194

Fax: (02) 92902198

EMAIL: sue@gsa.org.au

Advertising and Sponsorship Rates:

Our newsletter is circulated to about 500 members across Queensland, as well as being posted on our web page. It represents an ideal opportunity to advertise your company and services.

Size	width x height	1 issue	12 months (5 issues)
Full page	17.2 x 24.1 cm	\$120	\$300
Half page	17.2 x 11.9 cm or 8.4 x 24.1 cm	\$75	\$375
Quarter Page	17.2 x 5.8 cm or 8.4 x 11.9 cm	\$40	\$200
Business card	8.4 x 5.8 cm	\$20	\$100
Pamphlets and Flyers (as inserts)		~ \$100	