



February 2004

**THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division**

GENERAL MEETING

Thursday, 26 February 2004

**Mesothermal Au & Cu-Au Porphyry Mineralization of Central Asia
and Kazakhstan**

Dr Alexei Sokolov

Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)
Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)
General Meeting at 6.15 pm – Fritz Loewe Lecture Theatre

.....
**Mesothermal Au & Cu-Au Porphyry Mineralization of Central Asia
and Kazakhstan**

Large and giant scale copper-porphyry and gold deposits of different genetic styles were discovered in mineral provinces of Central Asia and Kazakhstan as a result of many years of intensive exploration in the former USSR. The most economically important deposits are of the mesothermal Au and Cu-Au porphyry type. Mesothermal Au deposits are related to collisional granitoids in passive continental margins and Cu-Au porphyry deposits have a distinctive geotectonic position in volcanic-plutonic belts of active continental margins. Giant and large-scale Au and Cu-Au porphyry deposits demonstrate particular geological settings.

About the Speaker:

After 16 years of research experience in Russian Academy of Science with the involvement into projects all over former USSR territory, A. Sokolov was invited to work for Gold Fields of South

Africa with the responsibility to develop exploration strategy on the basis of comparative analysis of similar types of mineralization in Russia. Then, working for WMC Resources in Australia, he was responsible for conducting a mineral endowment assessment of Central Asia and Kazakhstan and developing exploration strategy for these provinces. For the past 4 years he has managed an exploration program for gold in Liberia, West Africa.

Geology of Victoria: How to obtain a copy.

Now that Geology of Victoria has been launched, copies are available for purchase either through the Victoria Division or through the Business Office in Sydney. How this is done depends on where you are and how you want to pay. Please select from the following options.

1. Cash sales (cash or cheque only) can only be through the Victoria Division. Books will be available at GSA monthly meetings or you can arrange to collect a book at other times by contacting Bill Birch (9270 5049). Books will be stored at the Geosciences section of Museum Victoria and can be picked up from the Royal Exhibition Building basement by arrangement with Bill. Using this method, the prices are as follows:

Members: \$125

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Postage and handling \$10 extra if the book is to be mailed out.

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Postage and handling of \$11 included; tax invoice/receipt will be supplied.

Note that the postage and handling charge in both methods is for Australia only. Overseas postage is extra.

3. We are exploring options of having the book available in several retail outlets. The cost of the book through these outlets is likely to be close to \$200.

Mawson Medal Winner

Professor Michael Sandiford, University of Melbourne has been awarded the Mawson Medal of the Australian Academy of Science for research in the earth sciences. Congratulations!

Membership Matters (October-November 2003)

New members: Nonna Razbash, Jonathan Law, John McPherson

Transfer from member to retired member: Peter Pritchard

Student Members: Briony Muller, Narelle Beatie, Jill Middleton, Meaghan Miller

Individuals CAN take action

GSAV has just posted a copy of *Introducing Victorian Geology* to Mr Jeff Woolcott, an octogenarian who studied geology at Ballarat School of Mines in the 30s. He bought it to donate to his grandchildren's school library when he found they did not have a copy.

If your local library or your child's or grandchild's library does not have a copy of *Introducing Victorian Geology* or *Geology of Victoria*, why not recommend the purchase or donate one. Don't wait for non-geologists to do all the running!

Major Upcoming Events

The 17th **Australian Geological Convention** – Hobart, 8th to 13th February 2004.

Up to date information on GSA activities and events is available on the GSA website

www.gsa.org.au

Economic Geology Conference at Orange

The Monash Ore Deposits Research Group, in collaboration with the Australian Geological Society's Specialist Group in Economic Geology, is organising a conference in Orange, NSW, on July 6 - 8, 2004. The theme of the meeting, which will comprise one day of (invited) presentations, a conference dinner at a nearby winery, and two days of field trips to Cu-Au deposits and exciting, new discoveries in the region (Lake Cowal, Cadia, Wyoming, Cargo, and possibly Peak Hill), will be 'Tectonics to Minerals Discovery - Deconstructing the Lachlan Orogen'.

A first circular of the conference can be found at

<http://www.earth.monash.edu.au/lib/MORE-Conference-2004.pdf>

Check this site frequently for updates. For further information and to register your interest, please contact

Frank Bierlein or Andy Wilde
School of Geosciences
Monash University VIC 3800
tel: (03) 9905 4879 fax: (03) 9905 4903

bierlein@mail.earth.monash.edu.au
wilde@mail.earth.monash.edu.au

Death of Nancy Thomas

Nancy Thomas, geologist, and wife of geologist George Thomas, died on January 2nd 2004.

Nancy was a graduate in geology from the University of Melbourne, where in the 1940s she met and married George Thomas when they were undergraduates under Professor Skeats. Between raising a large family and accompanying George on many field trips with the BMR in the late 1940s and 1950s, and on George's later University study leaves in the USA and the UK, she worked as a geologist for many years with a number of Melbourne companies, in particular with Frome Broken Hill and CRA. Most of her work was commercial and so unpublished, but her articles on building stones of Melbourne are well-known. In 1992 after their retirement she and George went by road on a major field trip to WA and the Carnarvon region.

Bernie Joyce

GSA (VICTORIA DIVISION)

Please address all correspondence to the GSA, Victoria Division
GPO Box 2355V, MELBOURNE, VIC 3001

Web address: <http://vic.gsa.org.au>

COMMITTEE 2002

OFFICE BEARERS

	phone
Acting Chair: David Moore	9859 9374
Vice Chair: Vacant	
Secretary: Peter Pritchard	9439 9582
Treasurer: Lindsay Thomas	9328 1722
Promotions: Vacant	

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<i>Elected Members:</i>	phone
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Ross Cayley	9412 5042
Jenny Hollamby	9467 3689
Richard Squire	
Andy Wilde	9905 1140
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EDUCATION: Noel Schleiger	9435 8408
MEMBERSHIP: Leisa Brough	9727 4898
WEBSITE EDITOR: Jodie Miller	
BICENTENNIAL GOLD: Gerhard Krummei	9820 2595

GEOLOGY of VIC: Bill Birch	9270 5049
HERITAGE: Sue White	9328 4154
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Misha Frankel, Business Manager, GSA, Suite 706, 301 George St., Sydney NSW 2000

Email: misha@gsa.org.au Tel: (02) 9290 2194 Fax: (02) 9290 2198

Nominations are now being sought for the 2004 presentation of the Selwyn Medal so please discuss with colleagues who you think might be a worthy candidate and put pen to paper in the near future.

Candidates should have made a major contribution to new knowledge of the geology of Victoria, or an important reinterpretation of it based on critical observations, contributed significantly to a major initiative in exploration or engineering geology, produced important geological publications or has been successfully involved in the development of the geological profession.

Nominations should include the name of the candidate, biographical data, a citation in 300 words or so of the work and its significance to the geology of Victoria, and names of at least two geologists who support the nomination.

**Please mail nominations to: Awards Committee, GSA Victoria Division
5 Mossman Drive, EAGLEMONT VIC 3084**



March 2004

**THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division**

GENERAL MEETING

Thursday, 25 March 2004

**Future eruptions in the Newer Volcanic Province, Victoria:
What do we and don't we know?**

Prof. Ray Cas, School of Geosciences, Monash University

Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)

Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)

General Meeting at 6.15 pm – Fritz Loewe Lecture Theatre

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The Newer Volcanic Province is arguably Australia's only active mainland volcanic province. Eruptions extended from 4.6 (or even 6) Ma to 4.5 ka, and there are over 400 known eruption points, giving an average eruption periodicity of 11-15 kyr. The presentation will review the types of volcanoes, eruption processes, likely hazards the next eruptions may produce, and speculate where they may occur. The talk will also address aspects of chemical stratigraphy of the province and how remote geophysical data sets can help us develop a better understanding of this province.

A Baillieu Library Exhibition on Volcanoes

“Burning Clouds and Leaping Glaciers”

From the collections of the Earth Science and Baillieu Library, including the Vallance collection, much interesting material on volcanoes is on display in the Leigh Scott Room, 1st Floor, Baillieu Library, The University of Melbourne, from now until the 26th March 2004.

Judith Perser has prepared the display and says there are “a couple of plans of Hawaiian craters, a map of Ascension, and Darwin’s map of coral reefs where he noticed interesting things when he started colouring in the volcanoes”.

Many old books, scientific journals and magazines are used to provide information on Iceland, Indonesia, Hawaii, and other areas, including Mt Gambier, Australia.

The opening, with an address by Associate Professor Janet Hergt of Melbourne, was on the 2nd March 2004.

Bernie Joyce

Membership Matters (February 2003)

New Members:

David Sleigh
Megan Hough
Marc Kesby
Graeme Beardsmore

New Student Members:

Gillian Hamson
Anthony Morey
Rene LaBerge

Transfer from Member to Retired Member:

Thomas Dickson
Adrian Power
Nicholas Kempton

Transfer from Associate Member to Retired Member:

Ian Endersby

A Reminder. Quite a few of our members are still unfinancial for 2004. Please rejoin us!

Major Upcoming Events

Annual General Meeting, Victoria Division, GSA, Thursday 29th April.

Up to date information on GSA activities and events is available on the GSA website

www.gsa.org.au

Notice of 2004 Annual General meeting of Victoria Division of GSA

Call for Nominations to the Executive and Committee

The Annual General Meeting of the Victoria division of the Geological Society of Australia will be held on Thursday 29th April in the Fritz Loewe Lecture Theatre, starting at 6.15 pm.

Nominations are called for the positions of:

Chairman

Vice Chairman

Secretary

Treasurer

Promotions Officer

Committee Members

The position of Vice Chairman has been vacant for over a year. If you are interested in making a difference for your Society, contact David Moore or Peter Pritchard right away.

Please also consider the Promotions Officer position – the GSA has a professional PR person to provide support, and the GSAV could fund good initiatives.

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April 2004

**THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division**

GENERAL MEETING

Thursday, 29 April 2004

Is the Moyston Fault really the boundary between Delamerian and Lachlan Orogens? Constraints from new detrital-zircon and Ar/Ar age dating.

**Dr John Miller and Dr Rick Squire
School of Earth Sciences, University of Melbourne**

Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)
Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)
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Abstract

New Ar/Ar and U/Pb age data from western Victoria clearly indicate that the Moyston Fault is not the orogenic boundary between the Lachlan and Delamerian Orogens. Instead, the Stawell Zone is interpreted to represent part of a hybrid zone that records both Delamerian and Lachlan orogenesis. Correlations of the hybrid orogenic zone can be made with rocks in Antarctica. This new interpretation is supported by Ar/Ar age data from the western part of the Stawell Zone that indicate rapid cooling of the high-grade metamorphic rocks occurred at about 500 Ma, broadly coincident with emplacement of the Stawell and Mount Reid Volcanics. In addition, detrital-zircon age data show that the quartz-rich sandstones from the Stawell Zone are Cambrian in age and have strikingly similar provenance to the Cambrian quartz-rich sandstones in New Zealand and Antarctica.

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New Member:	James Petersen
New Student Member:	Helen Williams

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New Book Launched: “The Web of Science: the scientific correspondence of Rev. W B Clarke”
Dr Ann Moyal AM. 2 volumes.

Rev. W. B. Clarke (1798? – 1978) an Anglican clergyman who arrived in Sydney in 1839 was the first trained geologist to settle in Australia. He provided valuable leads to prospectors on a wide range of places where coal, gold and other metals could be found in New South Wales, Victoria and elsewhere in Australia.

He corresponded with scientists and explorers including Frederick McCoy, Richard Daintree, Alexander Thompson, Ferdinand von Mueller, Phillip Parker King, John Tebbutt, Henry Russell, William Sharp Macleay and Ludwig Leichhardt in Australia; Adam Sedgwick, Roderick Murchison, Charles Darwin and Richard Owen in Britain; James Dana in USA and Laurent de Koninck in Belgium.

The 895 letters are drawn from Clarke’s papers in the Mitchell Library and overseas collections.

The Clarke Medal of the royal society of New South Wales was struck in his honour at his death – then first scientific medal issued in Australia.

Geological Society of Australia

ABN 93 652 757 443

Victoria Division Treasurer's Desk

GPO Box 2355V MELBOURNE VIC 3001

04 2735 4828 thomas@unimelb.edu.au

Financial Report to Victoria Division

April 3, 2004

I am pleased to submit this report on activities during 2003, and the financial summaries to the Division. At the time of writing it is not clear whether I will be able to be present in person at the Annual Meeting. I will make some general observations alongside the main information in the audit reports.

Audit Report

The auditor's report, and audited financial statements, will be attached to this report. The report, however, is necessarily written before the audit is complete. I do not anticipate any surprises in the report.

Geology of Victoria

The main activity during 2003 has been the bringing to realisation of the third edition of the Geology of Victoria. I am sure there will be many other remarks made about this during the Annual Meeting, so I will confine myself to some remarks about the financial aspects behind this proud achievement. I acknowledge with gratitude the excellent effort by Ingrid Campbell and Kerry Hegarty in raising sponsorship and donation funds to enable us to bring the volume to market at an attractive price. I also acknowledge the support of Misha Frankel in the Sydney Business Office in handling the GST obligations from sponsorships and payments. With all of the costs now in hand, an overall summary of the project (including costs over previous years) is

Income:	\$ 42 000	GSAV Earmarked funds, on deposit
	\$ 88 000	Sponsorships and donations

Total:	\$ 130 000
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Expenditure:	\$ 58 000	Preproduction costs
	\$ 19 000	Ancillary costs
	\$ 123 000	Printing costs

Total:	\$ 200 000
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Here figures are rounded to the nearest \$1k, and some costs in kind (for instance, sponsors' and contributors' copies) are not included.

The shortfall was made up from operating funds (in previous years) accumulated funds, selling a couple of investments, and we were also able to realise over \$16_000 in sales before all of the bills came in, so the net effect on our capital investments has been quite small.

We do now, however, have a significant portion of our assets in the form of stocks of this volume. It is imperative that the Division look at continuing to publicise and promote sales of the GoV. In this connection it is notable that there have, to date, been significant sales to undergraduates at only one Victorian institution. We should not rely on students to support the Victorian Division financially as well as in other ways, but we should also make sure that students are aware of the range of useful current information in the volume.

Budget

I offer the following general remarks about the Division's anticipated financial situation during this year, and follow this with suggestions that might be followed within likely income projections.

As income from book sales is received, I suggest that it be transferred back to our investment portfolio, first to replace the capital advanced to effect the production, and then to create a book fund for future projects. Book income, then, will not be a budgetable item in the immediate future. The Selwyn Symposium will be planned as a break-even event, and although that will be underwritten will also not be a budget item. Income from our investments, and the capitation fees returned by the Federal Executive, is anticipated to total ~\$10_000 in 2004. Our major expenditure each year is in newsletter printing and distribution, and this is expected to again total \$4_500.

Prizes and sponsorships will likely be less in 2004, as a significant outgoing in 2003 was in support of the AGC17 student participation, but may total \$1_000. Division running costs are unpredictable, as they rely on the heads of the executive officers dominating their hearts and submitting reimbursement requests (a rare event, for which the Division should be grateful) but I assign \$1_000. I suggest that the Division accept a small operating deficit, and support the following activities (more details later in the report):

Preparation of display materials and handouts for use at careers and professional meetings: \$3 000
Organization and indexing of the Division's Records: \$1_000
Initiation of a new edition of *Introducing Victorian Geology*: \$1_000

Explanation of budget initiatives

The Division has little in the way of display materials (banners and posters) to support those members who represent us at schools, career days, or professional meetings. This sum would allow a limited entry into modern presentation, with professional graphic support, on which our volunteer workers could build. We can still show our publications where appropriate, and AGSO (sic) posters that attract attention, but we should also try and match the quality of other booths at these exhibitions. The exhibition industry reckons that booths have three seconds in which to capture visitors' attention. Impact is needed.

The Division's records, kept for half a century by dedicated officers, are in disarray and scattered. One effect has been that it proved impossible to find any coherent figures on the sales rates – or even the print runs – of previous GoV editions. The volume of these records is nonetheless small, so I propose that a small sum be made available to encourage a person with suitable abilities to bring order to these records, perhaps leading to depositing them in the State Archives.

IVG has been a consistent seller for the Division over the years, but our stocks will be exhausted by the end of 2004. We need to get started on replacing this, and I would suggest canvassing the possible alternatives which would, of course, include simple reprinting. If the Division Committee can establish guidelines, then a small amount for expenses, and/or an honorarium, could encourage a timely completion of an advisory report.

Lindsay Thomas
Division Treasurer

Editor's Note: The Auditor's report was not available yet but hopefully it will be finished by the AGM.

From the GSAV Heritage Subcommittee's Report:

Over 1700 sites have been entered into the GSA (V) database.
Sites are being assessed on the Queenscliff 250000 sheet.

The committee has been involved in management and planning issues for Mt Elephant, The Council Trench at Bacchus Marsh, Lakes Gnotuk and Bullenmerri, and the stony rises area.

Advice and consultations have been undertaken with Melbourne Water, the Victorian Environmental Assessment Council and the Landscape committee of the National Trust.

A chapter on heritage and conservation was completed for *Geology of Victoria* and work is continuing on the important *Volcanics Eruption Points* publication.

The committee currently has 9 members with a wide range of geological expertise.

Susan White Chairman.

Prime Minister's Prizes for Science

The deadline for the annual Prime Minister's Prizes for Science is 23 April 2004. They are:

- The Prime Minister's Prize for Science
- The Science Minister's Prize for Life Scientist of the Year
- The Malcolm McIntosh Prize for Physical Scientist of the Year
- The Prime minister's Prize for Excellence in Science Teaching in Primary Schools
- The Prime Minister's Prize for Excellence in Science Teaching in Secondary Schools

The Prizes nomination templates can be accessed at

<https://sciencegrants.dest.gov.au/SciencePrize/Pages/Home.aspx> and the Science Prizes Committee Secretariat can be contacted by phone at 02 6240 5066 or e-mail pmprize@dest.gov.au

Status of Data Metallogenica at AMIRA (sponsored by GSA)

The data building phase is proceeding quickly, with new "galleries" of maps/sections, field photos etc that are complementing rock sample photos. You can get an idea of the website (www.datametallogenica.com) by looking at "Example Data" – a good example to look at is Batu Hijau.

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May 2004

THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division

GENERAL MEETING

Thursday, 27 May 2004

Advanced Magnetic Petrophysics; adding subtlety to magnetic exploration.

Dr Bob Musgrave
Palaeomagnetist/Rock Magnetist/Geophysicist
Senior Research Fellow, School of Geosciences, Monash University

Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)
Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)
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.....

Advanced Magnetic Petrophysics

Induced and remanent magnetisation both contribute to magnetic anomalies, but the ease in determining susceptibility, and the comparative difficulty in determining the *in situ* magnitude and direction of remanence, frequently tempt modellers and interpreters to ignore the contribution of remanence. Remanence can be difficult to measure, especially where cores are unoriented, and the classical measure of the relative significance of remanence and induction – the Königsberger ratio – can be deceptive, especially where the magnetisation is highly viscous. Hysteresis analysis provides a suite of parameters which have been used to characterise the stability of remanence in rocks where Fe-oxides are the main magnetic minerals, but our work on drill core samples from the Stawell gold field represents the first application of this technique to pyrrhotite-dominated assemblages in a mineralised setting. By combining hysteresis, demagnetisation, and anisotropy of susceptibility, we can relate magnetisation type and direction to lithological type and structural setting, providing a guide to anomaly inversion and so adding an extra degree of subtlety to aeromagnetic interpretation in the Stawell corridor.

A Reminder. Quite a few of our members are still unfinancial for 2004. Please rejoin us! The newsletter will not be mailed to unfinancial members after June.

Major Upcoming Events

Up to date information on GSA activities and events is available on the GSA website www.gsa.org.au

Royal Society – GSAV A. W. Howitt Lecture

As part of the Royal Society's sesquicentenary, it is initiating a new annual lecture series to mark the significant role that geological sciences has played in its history. Many significant geological papers have been published in the Proceedings over the years and many noted geologists have served as Presidents of the society. The series is to be called the A. W. Howitt Lecture, after the well-known geologist and explorer, who led the expedition in search of the Burke and Wills party.

The series has been initiated in conjunction with the Victoria Division, Geological Society of Australia. The first of these lectures is:

“A. W. Howitt” by Prof. John Talent

It will be held on Thursday 17th June, 2004, at 7 pm at the Royal Society, 9 Victoria Street. Entry fee is \$15 (inc GST) – light refreshments will be served after the lecture.

ROYAL SOCIETY OF VICTORIA SESQUICENTENARY EXCURSION TO TASMANIA

As part of its 150th anniversary celebration, the RSV is running an excursion to Tasmania. GSAV members have been invited to come along.

Dates: Saturday 5th to Wednesday 9th June, at Launceston. Accommodation can be arranged through RSV or members can arrange their own.

Highlights include tours of the Queen Victoria Museum and Art Gallery (Launceston); King Solomon's Cave, Mole Creek; Tasmanian Museum and Royal Botanic Gardens (Hobart); Old Campbell Town; and, as the focus of the trip, a visit to the Observatory to watch the Transit of Venus. Evening functions include dinners at the Launceston Club and the Tasmanian Club, with addresses by various dignitaries.

Bookings for the event close on 19th May.

A detailed itinerary can be obtained from Camilla van Megen at the Royal Society of Victoria (Tel. 9663 5259 or email: admin@sciencevictoria.org.au).

16TH VIMP DATA RELEASE

SEMINAR

Venue: Thomas Carr Centre, 278 Victoria Parade East Melbourne

Date: Tuesday 25 May 2004

Time: 9.30am – 1.30pm

PROGRAM

9.30 – 10.00 Registration

10.00 – 10.10 Welcome

Hon Theo Theophanous, Minister for Energy Industries and Resources

10.10 – 10.30 A systems approach and future gold exploration in Victoria

Bob Haydon, CEO of the Cooperative Research Centre for Predictive Mineral Discovery (*pmd**CRC)

10.30 – 10.40 Data release overview

Kathy Hill, Director GeoScience Victoria

10.40 – 11.00 Buffalo geology and recent GSV mapping in eastern Victoria

Clive Willman

11.00 – 11.30 Refreshments

11.30 – 11.50 Glenelg geology in western Victoria

Vince Morand

11.50 – 12.10 St Arnaud 1:250 000 map geophysical interpretation

David Moore

12.10 – 12.30 Ararat area gold and base metal regolith signatures

Andrew Radojkovic

12.30 – 1.30 Mapshare demonstration and refreshments

To register for seminar: Contact Peter O'Shea Phone:(03) 9412 5093

Fax: (03) 9412 5155 Email peter.o'shea@nre.vic.gov.au

EXCURSION

Date: Wednesday 26 May to Friday 28 May 2004

Time: Start 9.00am on Wednesday 26 May in Melbourne

Finish 5.00pm on Friday 28 May in Melbourne

Three day excursion to the Glenelg area in western Victoria to visit key sites on the Edenhope and Balmoral 1:100 000 scale geological maps.

Products to be released at the VIMP seminar include new geology, geophysics and regolith maps and reports, GIS CDs, digital open file exploration data and the latest version of Mapshare, DPI's web mapping application.

Excursion to the Glenelg area, western Victoria.

GeoScience Victoria (GSV) is conducting a three day excursion to visit key sites on the Edenhope and Balmoral 1:100,000 scale geological maps from Wednesday 26 May to Friday 28 May, with overnight stays at Casterton (Wednesday) and Hamilton (Thursday). Numbers are limited to 40 people. To reserve a place on the excursion contact:

Peter O'Shea Phone (03) 9412 5093
Fax (03) 9412 5155
Email peter.o'shea@nre.vic.gov.au

GSA (VICTORIA DIVISION)

Please address all correspondence to the GSA, Victoria Division

GPO Box 2355V, MELBOURNE, VIC 3001

Web address: <http://vic.gsa.org.au>

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Ross Cayley	9412 5042
Jenny Hollamby	9467 3689
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Misha Frankel, Business Manager, GSA, Suite 706, 301 George St., Sydney NSW 2000

Email: misha@gsa.org.au Tel: (02) 9290 2194 Fax: (02) 9290 2198

PESA lunchtime talk on coal bed methane

Hydrological factors affecting gas content distribution in coal beds.

Andrew R Scott, CEO Altuda Energy Corporation, San Antonio, Texas.

Monday 24 May, The Victoria Hotel, Little Collins Street 12 noon to 2 pm

GSA members can participate for \$35 (members), \$40 (non-members) \$15 (students and retired members). There is also a two day short course, "An Integrated Coalbed Methane Exploration Model" from 9 am to 5 pm Tuesday May 26 and Wednesday May 27 at Esso House, Southbank. Cost \$500.

Bookings: Anne Powell
 E-mail: anne.powell@dpi.vic.gov.au
 Tel: (03) 9412 4115
 Fax: (03) 9412 5156

Or Jim Driscoll
 E-mail: jim.driscoll@dpi.vic.gov.au
 Tel: (03) 9412 5064
 Fax: (03) 9412 5156

Print Post No. PP381827/0025

Registered Publication No. VBH 2135

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Travel: Melbourne/Launceston/Melbourne
Individual arrangements apply.

Accommodation: Individual
arrangements apply: The Royal Society of
Victoria has arranged block bookings at the
following:

Launceston Sat. 5th and Tues. 8th

Commodore Regent Motel
13 Brisbane Street
(03) 6331 4666 - Matthew

Launceston International Hotel
29 Cameron Street
(03) 6334 3434 Reservation 22646 & 22648

Hobart Sun. 6th and Mon. 7th

Hotel Grand Chancellor
1 Davey Street
(03) 6234 4535 – Sarah Oliver

Alternatively Members may wish to use the
services of Tasmania's Temptation Holidays
(03) 6336 3062 – Kate Stokes



**SESQUICENTENARY
EXCURSION TO TASMANIA
(including The Transit of Venus)**

**Saturday 5th – Wednesday 9th
June, 2004 (inclusive)**

**The Royal Society of Victoria Inc., 9 Victoria Street
Melbourne Vic. 3000 ABN 62 145 872 663**
Tel: (03) 9663 5259 *Fax:* (03) 9663 2301
email: admin@sciencevictoria.org.au
www.sciencevictoria.org.au

Program

Saturday, 5th June

11.45 Rendezvous at The Launceston Club, 61 Tamar Street.

12.00 Lunch in The Launceston Club.

1.30 Guided Tour of Queen Victoria Museum and Art Gallery.

2.30 Coach to Low Head Historic Precinct – original harbour entrance, lighthouse and museum, 19th century village.

4.00 Return to Launceston via Batman Bridge (something of a wonder) and vineyards on the western side of The Tamar.

7.30 Dinner in The Launceston Club (jacket and tie) a la carte menu at individual cost.

Speaker: Vice-President, The Royal Society of Tasmania

Sunday, 6th June

9.00 Assemble at The Launceston Club.
Travel by coach to Hobart via Mole Creek.

10.30 Tour of King Solomon's Cave.

12.00 Lunch at Deloraine.

1.30 Continue tour via Lake Highway, climbing the Golden Stairs, via Quamby Bluff to view the Western Tiers, Central Plateau, Great Lake, Shannon Rise and view Steppes Sculptures.

3.30 Afternoon tea at Bothwell.

Sunday (contd.)

(If time permits, a stop at Cornelian Bay Cemetery to view monument to French Antarctic dead).

7.30 Dinner in The Tasmanian Club (jacket and tie) a la carte at individual cost.

Monday, 7th June

10.00 Assemble at the Tasmanian Museum and Art Gallery, 40 Macquarie Street.
Examine 'Eclectica' exhibition celebrating 160 years of collections including flags, coins, furniture, art, sculpture, etc. and significant number of prized watercolours owned by The Royal Society of Tasmania.

Morning tea in the Gallery.

11.30 Coach to the Royal Botanic Gardens, with commentary by Dr. Rozefelds, Deputy Director, Museum Tasmania.

1.30 Lunch in the Gardens.

2.30 Coach to Mt. Wellington and tour of bay region.

5.00 Return to Hobart.

7.30 Dinner in The Tasmanian Club, 132 Macquarie Street (black tie or lounge suit).

Speaker: Dr. Michael Readett,
President, The Royal Society of Tasmania.

Guest of Honour: The Hon. Mr. Justice W.J.E. Cox, AC, RFD, ED, Chief Justice and Lieutenant Governor of Tasmania.

Tuesday, 8th June

9.00 Assemble at The Tasmanian Club.

Travel by coach to Campbell Town
Morning tea – own arrangements.

11.00 Meet at coach for tour of old Campbell Town with commentary.

11.50 Unveiling of Transit sundial in Valenti Park followed by Royal Australian N Band recital.

12.15 Lecture on Transit of Venus.
Speaker: Curator of Astronomy, Qu Victoria Museum.

1.00 Civic Luncheon Reception.

2.30 Observatory session with commentary
Curator of Astronomy.

5.15 Transit of Venus

5.45 Assemble at coach for return
Launceston.

7.30 Dinner in The Launceston Club (jacket tie) a la carte at individual cost.

Wednesday, 9th June

End of excursion.

N B: This program may alter due
circumstances beyond the direct control of
Royal Society of Victoria.

/we wish to register for **The Transit of Venus Campbell Town Excursion to Tasmania, Saturday 5th – Wednesday 9th June, 2004 (inclusive).**

Name(s): Tel:Fax:

Address:

No. of people @ \$370.00 each (includes GST) \$
TOTAL \$
Cheques payable to The Royal Society of Victoria

Credit Card payment by Visa, Mastercard or Bankcard only TAX INVOICE
No. * * * * *

Name on card: Expiry / Signature

The Royal Society of Victoria Inc, 8 Latrobe Street, Melbourne Vic. 3000 ABN 62 145 872 663
Tel: (03) 9663 5259 Fax: (03) 9663 2301 email: admin@sciencevictoria.org.au



June 2004

**THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division**

GENERAL MEETING

Thursday, 24 June 2004

**A solution to grade estimation in a high nugget environment – the
Bendigo experience.**

**G Johansen
Exploration Manager
Bendigo Mining NL**

Building 72 (Engineering) Monash University, Normanby Road, Clayton North
Drinks and nibbles at 5.30 pm (\$2 per person)
General Meeting at 6.15 pm – Lecture Theatre E7, Building 72

.....
**A solution to grade estimation in a high nugget environment – the Bendigo
experience**

In a “typical” gold deposit each tonne of ore will contain tens of millions of very fine gold particles whereas, at Bendigo the majority of gold in each tonne of ore is present in just 5 to 15 very coarse gold particles, a distribution more akin to diamond deposits. At Bendigo the minimum sample size required for good assay repeatability is estimated at 4.5 tonnes for each assay. Drill core samples are several orders of magnitude too small to generate representative assays. The drilling data is characterized by a nugget effect approaching 90%, a very skewed distribution and, on average, under-reports insitu grade by 50% to 75%.

Since 2002 Bendigo Mining NL has completed 47,000 metres of diamond drilling, 1,200 metres of on reef development, collected and processed 100 bulk samples (150 tonnes

each), 800 mini bulk samples (50kg each) and processed in excess of 25,000 tonnes of ore through a pilot plant. The results of this work have provided the information required to develop and verify a robust grade estimation procedure.

No standard geostatistical manipulation of the drilling assay data can generate an accurate grade estimate as the samples and associated assays are not representative of the ore being sampled. The recognition of this fact was critical as a radical transformation of the raw drill assay data was required to develop a workable methodology for grade estimation in such a high nugget environment. The aim of the transformation was to reduce the nugget effect and high variance and so approach a lognormal assay distribution. Ideally the average drill grade would approximate actual in situ grade and the assay distribution would reflect actual grade distribution within the reefs.

Following the data transformation simple block modeling within the defined resources allows grade estimates to be made that can be used in the estimation of Indicated Resources and hence Probable Reserves. The grade estimates have been checked by extensive bulk sampling and processing of 25,000 tonnes of ore (3% of total resource) through a pilot plant with planned full scale mining to provide the ultimate verification.

An important Reminder. Quite a few of our members are still unfinancial for 2004. Please rejoin us! The newsletter will not be mailed to unfinancial members after June. A **red circle** will be attached to the address on posted newsletters of unfinancial members this month to reinforce this message. Emailed newsletters will be accompanied by a reminder notice in the covering email.

Major Upcoming Events

Up to date information on GSA activities and events is available on the GSA website
www.gsa.org.au

Royal Society – GSAV A. W. Howitt Lecture

As part of the Royal Society's sesquicentenary, it is initiating a new annual lecture series to mark the significant role that geological sciences has played in its history. Many significant geological papers have been published in the Proceedings over the years and many noted geologists have served as Presidents of the society. The series is to be called the A. W. Howitt Lecture, after the well-known geologist and explorer, who led the expedition in search of the Burke and Wills party.

The series has been initiated in conjunction with the Victoria Division, Geological Society of Australia. The first of these lectures is:

“A. W. Howitt” by Prof. John Talent

It will be held on Thursday 17th June, 2004, at 7 pm at the Royal Society, 9 Victoria Street. Entry fee is \$15 (inc GST) – light refreshments will be served after the lecture.

The map below shows the location of the GSA lecture (Building 72 – Engineering) and the recommended car park. Please keep this map as more GSAV lectures will be presented there this year.



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Web address: <http://vic.gsa.org.au>

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July 2004

**THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division**

GENERAL MEETING

Thursday, 29 July 2004

The evolution and uplift history of Victoria's Eastern Highlands

**Fons VandenBerg
GeoScience Victoria**

Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)

Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)

General Meeting at 6.15 pm – Fritz Loewe Lecture Theatre

.....
The evolution and uplift history of Victoria's Eastern Highlands

The origin and age of Victoria's Eastern Highlands have been debated for almost exactly a century. Most authors agree that they were once an ancient erosion surface that has been uplifted (many used the term 'peneplain'), but there is almost no agreement on almost everything else. Estimates of the age of uplift range from mid-Mesozoic to Miocene, some have a single uplift, others have pulses, and yet others have a constant uplift rate. Ever more sophisticated tools have been applied to get to the truth, but do they help? How can we resolve the differences? Uplift, especially at the scale seen in the highlands, has profound, regional effects. In order to reconcile the differences, a holistic approach is employed where the distribution of early Cainozoic basalts in the highlands is used to reconstruct early Cainozoic landscapes and combined with the sedimentation record in flanking basins to arrive at a (fairly simple) uplift and erosion history.

Changed date for August meeting

The August meeting will not be on the last Thursday of the month but on **Thursday August 12th**. It will feature Professor Peter Kennett, the Director of ANSIR, and will be a joint meeting with ASEG. It will be held in the Fritz Loewe lecture theatre, Melbourne University.

ANSIR (the Australian National Seismic Imaging Resource) is operated jointly by the Australian National University and Geoscience Australia. It was created in 1999 to encourage and assist world class research and education in the field of seismic imaging of the earth, from environmental and mine scale to continental scale, and has looked at projects as varied as South Australian palaeochannels, Yilgarn Goldfields and the Transantarctic Mountains. It is presently looking at data collected at several locations along the 'Tasman Line'.

Email Newsletters

There are advantages in getting your newsletter by email. It is more timely as it takes some days to print and post the hard copy version, whereas the email version is dispatched as soon as it is compiled. This also allows us to include in email newsletters some reminders of events that would be stale news by the time the printed version was delivered. Members who do not yet get their newsletters by email but have an email address are urged to convert by contacting Lindsay Thomas at thomas@unimelb.edu.au with the subject heading "Newsletter Request".

Major Upcoming Events

Up to date information on GSA activities and events is available on the GSA website www.gsa.org.au

Awards Subcommittee

The awards subcommittee met recently and chose the candidates for this year's Selwyn Medal (for outstanding long term contributions to Victorian geology), the Thomas Medal (for the best geological map submitted with an Honours thesis), and the Canavan prize (for the best second year geology student). It is planned to present the Thomas Medal and the Canavan Prize at the September meeting and the Selwyn Medal at the Selwyn Symposium in October.

DEPARTMENT OF
PRIMARY INDUSTRIES

DPI's Primary Address

WE HAVE MOVED!

The Department of Primary Industries
Head Office has moved to One Spring Street.

Postal Address

GPO Box 4440
Melbourne VICTORIA 3001

Contact:

Phone:
Fax:
Division:
Level:



www.dpi.vic.gov.au

Sustainable development of primary industries for all Victorians

Fortunately, separate intelligence has come to hand so that the missing information can be supplied:

Phone: 9658 4600

Fax: 9658 4460

Division: Minerals and Petroleum Business Centre

Level: 16 (at 1 Spring St)

LT

GSA (VICTORIA DIVISION)

Please address all correspondence to the GSA, Victoria Division

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August 2004

**THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division**

GENERAL MEETING

Note changed date and two meetings this month!

**(1) Thursday, 12 August 2004
Joint Meeting with ASEG**

**Professor Brian Kennett
From ANU, Director ANSIR**

**(2) Thursday, 26 August 2004
Fons VandenBerg, GeoScience Victoria**

Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)
Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)
General Meeting at 6.15 pm – Fritz Loewe Lecture Theatre

.....

**August 12 Meeting: Australian National Seismic Imaging
Resource**

ANSIR (the Australian National Seismic Imaging Resource) is operated jointly by the Australian National University and Geoscience Australia. It was created in 1999 to encourage and assist world class research and education in the field of seismic imaging of the earth, from environmental and mine scale to continental scale, and has looked at projects as varied as South Australian palaeochannels, Yilgarn Goldfields and the Transantarctic Mountains. It is presently looking at data collected at several locations along the 'Tasman Line'.

August 26 Meeting: The evolution and uplift history of Victoria's Eastern Highlands

The origin and age of Victoria's Eastern Highlands have been debated for almost exactly a century. Most authors agree that they were once an ancient erosion surface that has been uplifted (many used the term 'peneplain'), but there is almost no agreement on almost everything else. Estimates of the age of uplift range from mid-Mesozoic to Miocene, some have a single uplift, others have pulses, and yet others have a constant uplift rate. Ever more sophisticated tools have been applied to get to the truth, but do they help? How can we resolve the differences? Uplift, especially at the scale seen in the highlands, has profound, regional effects. In order to reconcile the differences, a holistic approach is employed where the distribution of early Cainozoic basalts in the highlands is used to reconstruct early Cainozoic landscapes and combined with the sedimentation record in flanking basins to arrive at a (fairly simple) uplift and erosion history.

Information Resource at GeoVic

The new URL for GeoVic is <http://www.dpi.vic.gov.au/minpet/geovic>. GeoVic, produced by the Minerals and Petroleum Branch of the Department of Primary Industries, is an on-line map on which you can display a variety of data, including exploration licences, geology, geophysics, mineral and other resource information, geological hazards, bore information, etcetera. It allows you to interrogate the map so that details of any of the features shown can be seen (e.g. Exploration Licence number, holder name, resource sought, year granted, etcetera; geological unit name, age, rock type, et cetera; bore name, bore log, etcetera; it separates current from historical tenement data. The menu bars are reasonably self-explanatory and familiarisation with the use of the menu bar and legend choices takes a surprisingly short time. The information is as up-to-date as you might wish: the 1:50 000 scale maps of the Glenelg and Buffalo regions, released only a few months ago, are available on GeoVic. Additional features are that you can find sites using grid references, measure distances, and a variety of other bells and whistles. (See the promo at the end of this Newsletter, too.)

Major Upcoming Events

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Awards Subcommittee

The awards subcommittee has chosen the candidates for this year's Selwyn Medal, Dr Chris Gray of La Trobe University (for outstanding long term contributions to Victorian geology), the Thomas Medal, Emily House of La Trobe (for the best geological map submitted with an Honours thesis), and the Canavan prize, Craig Warren Stevens, University of Ballarat (for the best second year geology student). It is planned to present the Thomas Medal and the Canavan Prize at the September meeting and the Selwyn Medal at the Selwyn Symposium in October.

Membership Matters

Dave Stegman was admitted as a member
Francisco Maturana transferred from Student Member to Member



The Geological Society of Australia Victoria Branch and PESA present:

SELWYN SYMPOSIUM 2004

BASINS, HEAT, FLUIDS AND METALS

Monash University, Melbourne
October 27th

Keynote speakers: Prof Richard Hillis (Adelaide University), Prof Pat Rich (Monash University) and Prof Mikhail Fedonkin (Russian academy of Sciences)

Topics include:

Petroleum Geomechanics from the Plate-Scale to the Reservoir-Scale

Coldwater Basins, Sequestered Metals and Plate Dynamics - Drivers of Biological Complexity

Exploring for Geothermal Energy in Australian Basins

Numerical Modelling of Basinal Processes

For further information contact: Andy Wilde (Andy.Wilde@sci.monash.edu.au)


Explore Victoria Online


with

GeoVic

at

<http://www.dpi.vic.gov.au/minpet/geovic>





GeoVic - Minerals and Petroleum's Web Mapping Application provides clients with on-line access to Victoria's wealth of Minerals & Petroleum databases to help them carry out their business.

GeoVic allows users to:

- search geospatial databases
- display results as maps
- display results as tables
- download M&P data.


GeoVic contains datasets that can be viewed and interrogated including:

- current and expired tenements
- land-use
- airborne geophysical survey boundaries
- gravity, magnetic & radiometric images
- borehole & well data
- surface geochemistry results
- mines & mineral occurrences
- geological maps & interpretations at 1M, 250k, 100k & 25k scales.

GeoVic - Victoria's web based (only a browser is required) application that supports explorer, developer and community needs for Minerals, Petroleum & Extractive Industries data

For further information on **GeoVic** and other Minerals and Petroleum services, please email

mbc.info@dpi.vic.gov.au



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September 2004

THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division

GENERAL MEETING
Thursday 30 September 2004

John Lambert
Manager, Science and Technology Development
Department of Primary Industries, Victoria

Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)
Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)
General Meeting at 6.15 pm – Fritz Loewe Lecture Theatre

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**September 30th Meeting: Geosequestration? Putting carbon into
deep permanent geological storage**

Geosequestration is a technology that aims to permanently store CO₂, a major greenhouse gas, in deep underground structures, beneath an impervious cap.

This paper will describe the development of this technology and discuss some of the potential opportunities and issues associated with this technology.

It will discuss the work of the Cooperative Research Centre for Greenhouse Gas Abatement (CO₂CRC) in Australia, which has predicted a number of high potential sites close to the Latrobe Valley. It will also describe the Sleipner project in Norway where geosequestration is being successfully applied and some of the legal and liability issues that are being raised.

Governments and communities around the world are taking action to reduce greenhouse gas emissions. However, around the world there is also a rapidly increasing demand for energy,

particularly in countries such as China and India and a large proportion of greenhouse emissions comes from fossil fuels such as oil and gas. In Victoria 55% of greenhouse gas emissions comes from the production of electricity in the Latrobe Valley from coal.

Significant attention is therefore being focussed on the development of renewable forms of energies such as wind and solar energy, energy efficiencies and new technologies to reduce emissions from power generation.

The technology that offers the greatest potential to reduce greenhouse emissions is geosequestration.

However, how can we be sure that geosequestration can permanently store CO₂?

Previous meeting on 26 August 2004

The address by guest speaker Fons VandenBerg on The evolution and uplift history of Victoria's Eastern Highlands was the best attended meeting of the year to date, and was followed by brisk discussion.

Two current geological heritage problems in Victoria

Proposed toxic waste disposal site in northern Victoria

The proposed site is near Nowingi, south of Mildura. It lies between the Hattah Lakes National Park and the Sunset Desert National Park. What has been overlooked is that the site is on the edge of the Raak Plain, an important geological heritage site, listed by the GSA Victoria Division's Subcommittee for Geological Heritage and also on the Register of the National Estate in Canberra.

The Raak Plain shows active geomorphological processes including saline groundwater spring discharges, active erosion and dune building. Much of the work on the Raak area has been by local geologist Phil Macumber.

The geological heritage values of the Raak have been ignored. Perhaps this is because it is not a declared National Park, and also has less obvious flora or fauna heritage values than the adjacent Parks.

Byaduk lava flow from Mt Napier, Western Victoria

An area of private farm land on the Byaduk lava flow in Harman Valley has recently been damaged by rock crushing, rolling and stone raking. Work on the site ceased after orders were made based on likely archaeological and vegetation values.

The site is listed on the RNE in Canberra, and Neville Rosengren in 1994 in a joint GSA/NT heritage report said "the Harman Valley lava flow is one of the youngest lava flows dated on the continent...(and) a major resource for teaching and research into the origin of *surface volcanic forms*" – the very features now being damaged!

The Byaduk flow is an important part of the Mt Napier volcanic complex. The affected site is below a major lookout and parking area, where geology signboards have been erected in recent years by the state government-sponsored Volcanic Trail organisation, with the assistance of Ken Grimes, a member of the GSA Victoria Division's Subcommittee for Geological Heritage.

For further information about these current problems, see:

<http://web.earthsci.unimelb.edu.au/Joyce/heritage/problems.html>

or follow the links from the GSA's web site at:

<http://www.gsa.org.au/>

and via "Awareness/Links" to "Heritage"

(Bernie Joyce, former Convener of the national Standing Committee for Geological Heritage of the Geological Society of Australia, who after 21 years is currently handing over the convenership to Sue White.)



Division and PESA present:

SELWYN SYMPOSIUM 2004

BASINS, HEAT, FLUIDS AND METALS

Keynote speakers: Prof Richard Hillis (Adelaide University), Prof Pat Rich (Monash University) and Prof Mikhail Fedonkin (Russian Academy of Sciences)

Topics include:

Petroleum Geomechanics from the Plate Scale to the Reservoir Scale

Coldwater Basins, Sequestered Metals and Plate Dynamics

Drivers of Biological Complexity
Exploring for Geothermal Energy in Australian Basins
Numerical Modelling of Basinal Processes
Geology of the Otway Basin

Venue:

**Lecture Theatre E7/S4
Monash University
Wellington Road
Clayton
Victoria**

Wednesday October 27th

For more details and a campus map - see
<http://www.earth.monash.edu.au/news/selwyn.html>

or contact Andy Wide
03-9905-1140
Andy.Wilde@Sci.Monash.edu.au

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Please fill in the following form and send it with payment details to:

The Treasurer
GSA Victoria Division
GPO Box 2355V, Melbourne Vic 3001

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Title: First Name:
Last Name:
Name on Badge:
Organisation:
Address:
.....
State: Postcode:
[Email:](#)
Phone: Fax:

Full Registration \$75.00

Student \$32.50

Includes GST, lunch and tea/coffee

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Please forward me payment details
and an official tax invoice/receipt. ☐
(On-line credit card booking also available at GSA
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DIRECT DEPOSIT

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is attached. ☐

A tax invoice will be forwarded on receipt of
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Treasurer:	Lindsay Thomas	9328 1722
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Elected Members:

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Andy Wilde	9905 1140
Richard Squire	
Rene LaBerge	
Fons VandenBerg	9412 5122

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PUBLICATIONS:	Vacant	
NEWSLETTER EDITOR:	Lex Ferguson	9458 4308

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Email: misha@gsa.org.au Tel: (02) 9290 2194 Fax: (02) 9290 2198

Information @ DPI opens Monday 20 September
Upper Ground Floor, 1 Spring St Melbourne Tel 9658 4440
Monday to Friday 9am to 5pm.

- VIMP and GSV reports
- Geoscience and Geophysical data on CD
- References and publications
- Journals
- Miner's rights
- Pre-ordered books from the Knowledge Resource Centre (catalogue available from www.dpi.vic.gov.au/library) can be accessed here

DPI KNOWLEDGE RESOURCE CENTRE WERRIBEE UPDATE

The Knowledge Resource Centre at Werribee will contain the majority of the collection formerly held at the Minerals and Petroleum Reference Centre at 8/240 Victoria Parade. This Reference Centre will close in mid-September and Knowledge Resource Centre will be open to visitors in October 2004. A reading room is available along with photocopying facilities. Requests can be made for texts to be sent to Information @ DPI.

LICENCES AND REGULATORY APPLICATIONS

Licence and other regulatory applications will be available from the Minerals and Petroleum Regulations Service desk at Level 16, 1 Spring Street.

For more information about the opening contact Caren Omachen during business hours on (03) 9658 4243 or email caren.omachen@dpi.vic.gov.au

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October 2004

THE GEOLOGICAL SOCIETY OF AUSTRALIA
Victoria Division

SELWYN SYMPOSIUM

The Geological Society of Australia Victoria Branch and PESA

Wednesday October 27

BASINS, HEAT, FLUIDS AND METALS

***Keynote speakers: Prof Richard Hillis (Adelaide University), Prof Pat Rich (Monash University)
and Prof Mikhail Fedonkin (Russian academy of Sciences)***

Venue: Lecture Theatre E7/S4 Monash University, Wellington Road, Clayton, Victoria

For more details and a campus map – see

<http://www.earth.monash.edu.au/news/selwyn.html>

Or contact Andy Wilde 03-9905-1140; Andy.Wilde@Sci.Monash.edu.au Starting time: 9 am

.....

Selwyn Symposium Topics

Petroleum geomechanics from the plate-scale to the reservoir-scale

Changes in metal availability throughout the Precambrian and the rise of biological complexity

Exploring for geothermal energy in Australian basins

Numerical modelling of basinal processes

A new look at the Otway Basin

The link between hydrocarbon and base-metal deposit formation

CO₂ sequestration in the Gippsland Basin

Coal-bed methane

Uranium mobility in basinal sediments

Major Upcoming Events

Up to date information on GSA activities and events is available on the GSA website
www.gsa.org.au

Selwyn Medal Presentation

This year's Selwyn Medal for outstanding long term contributions to Victorian geology will be presented to Dr Chris Gray of La Trobe University at the Selwyn Symposium.

Advice from the Treasurer:

(a) Finance Subcommittee

The Division Committee has endorsed the idea of setting up a Finance Subcommittee, chaired by the Treasurer, to oversee the Division's assets. Division members interested in participating in this subcommittee should contact the Treasurer (thomas@unimelb.edu.au). We do not envisage becoming active day-traders, but our direction could do with a regular review.

(b) Support for student presenters at conferences

The Division committee has decided to extend its long-standing support for our student members who present papers at geological conferences. We will make available funds to students who are presenting at interstate or international conferences, subject to a small set of conditions. For more information, go to the website (under the This Month heading until we decide on a better location).

Australian Society of Soil Science Inc. (Victorian Branch)

in association with members of the Geological Society of Australia Inc. Victoria Division

REVISITING A LEEPER SURVEY & A VOLCANO OR TWO ! - A Soils and Geomorphology Excursion to the Western District

In 1932 Geoffrey Leeper undertook a soil survey and pasture study of the Mount Gellibrand area in the Western District. This early work is considered to be the most comprehensive soil survey of south-western Victoria first published. Nine soil types were described with great detail, they include "Soils of the Plain" (for example the Stony Rise Brown Loam, Thistle-zone soils and Crabhole Complex soils) and "Soils of the Mountain". The study reports the mineralogy of each soil type, followed by a discussion on soil genesis and fertility. This excursion will look at these soils which Leeper described so well and seek to make comparisons with today's *Isbellian* method of soil classification, thus stimulating good hearted pedological debate.

This will be followed by a visit to nearby volcanoes (including Mount Hesse) to provide opportunity for a broader overlook of this unique Quaternary landscape.

The field trip was made available to GSA members at the suggestion of Bernie Joyce who will be presenting the geomorphological story of the region and its volcanic landforms in conjunction with the ASSS Victorian Branch.

Saturday 6th November, 2004 8:30 am to 7:00 pm

A bus will leave the University of Melbourne at Gate 12 on Royal Parade (just outside Melba Hall). A pickup en route in Geelong can be prearranged.

Cost approx. \$35. Lunch and drinks will be provided.

RSVP by 15th October, 2004 to Jack Holland, ILFR, University of Melbourne, VIC 3010

Email : j.holland3@pgrad.unimelb.edu.au

Tel: (03) 8344 5018 Mobile (0439) 631 937

SELWYN REGISTRATION

Please fill in the following form and send it with payment details to:

Megan Hough
School of Geosciences, Monash University VIC 3800
Ph: 03 9905 5761; Fax: 03 9905 5062
Megan.Hough@sci.monash.edu.au

DELEGATE DETAILS:

Title:First Name:
Last Name:
Name on Badge:
Organisation:
Address:
.....
State: Postcode:
Email:
Phone:Fax:

Full Registration

\$75.00

Student

\$32.50

Includes GST, lunch and tea/coffee

PAYMENT DETAILS:

CREDIT CARD

Please forward me payment details
and an official tax invoice/reciept

☐

DIRECT DEPOSIT

Please forward me payment details
and an official tax invoice/receipt

☐

CHEQUE OR MONEY ORDER

I will attach a cheque or money
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You could contribute to further improvements – here are a couple of suggestions. If you have some (or even one) good (digital) image that could be linked to a particular location in the current narrative, send it in to thomas@unimelb.edu.au with a brief caption, and we will connect it up. Alternatively, if you would like to put together a brief location, site, or phenomenon description, with illustrations, that could be linked to the Victorian Geology page, then send it in. The text can be in any format, and we can transmute it into a web page. We can also scan slide or paper images and return them if needed.

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THE VICTORIAN GEOLOGIST



November 2004

THE GEOLOGICAL SOCIETY OF AUSTRALIA Victoria Division

**General Meeting
Thursday 25 November 2004**

Victorian Gold – a Monash View

**Nick Thorpe: Woods Point Goldfield
Laurent Ailleres: 3D modelling of Victorian Gold
Andy Wilde: Lithogeochemistry**

Venue: Earth Sciences, University of Melbourne (Corner of Swanston & Elgin Street)
Drinks and nibbles at 5.30 pm in the Tea Room, 4th Floor (\$2 per person)
General Meeting at 6.15 pm – Fritz Loewe Lecture Theatre

.....

The Loch Fyne deposit in the Walhalla-Woods Point is a diorite dyke-hosted gold mine that historically produced 110,000 Oz. Three dimensional modelling of the deposit has been undertaken. Regionally significant faults have focused fluid flow and localised gold mineralisation.

Launch of Council Trench Management Plan at Bacchus Marsh

The Bacchus Marsh Council Trench Reserve Committee of Management has completed a Plan that provides a framework for future use of the Reserve by defining the Committee's management vision, goals and actions.

You are cordially invited to the public launch of the Management Plan at Bacchus Marsh on Saturday December 4th 2004

Details of the launch:

Where – Department of Sustainability and Environment offices, 219A Main St Bacchus Marsh – Melway 333 K-7

When – Saturday December 4th 2004 at 11a.m.

Morning tea will be provided

Committee members will be pleased to escort guests wishing to visit the Council Trench Reserve after the launch.

Please RSVP by Wednesday 1st December 2004 to Roger Pierson by mail to 640 Ferntree Gully Rd Wheelers Hill Victoria 3150; email to pierson@deakin.edu.au; or telephone 03 9251 7296 during business hours.

GSAV is a significant stakeholder in this project.

Australian geological references

The American Geological Institute and Geoscience Australia are pleased to announce the availability of AusGeoRef, a bibliographic geoscience database drawn from GeoRef that covers the Australian literature since 1933. In 2003, AGI and Geoscience Australia began a cooperative arrangement to improve the coverage of Australian publications in the GeoRef and is now making this database available by subscription to organisations and companies.

AusGeoRef includes over 65,000 bibliographic references on Australia drawn from the journal literature, meeting proceedings and abstracts, walks, reports and maps. The database is updated on a weekly basis.

References contain complete bibliographic information and URLs for documents published on the web. Thorough indexing, based on the controlled vocabulary found in the GeoRef Thesaurus, is included. Specific geographic locations are listed as place names, and latitude and longitude are provided for the principal locations.

Nominations are now being sought for the 2005 presentation of the Selwyn Medal so please have a discussion with your colleagues about worthy candidates.

A candidate should have made a major contribution to new knowledge of the geology of Victoria, or an important reinterpretation of it based on critical observations, or have contributed significantly to a major initiative in exploration or engineering geology, produced important geological publications or have been successfully involved in the development of the geological profession.

Nominations should include the name of the candidate, biographical data, a citation in 300 words or so of the work and its significance to the geology of Victoria, and names of at least two geologists who support the nomination.

**Please mail nominations to: Awards Committee, GSA Victoria Division
5 Mossman Drive, EAGLEMONT VIC 3084**

Membership

In October Johnny Hitti was admitted as a student member

Think of 'Geology of Victoria' as a Christmas present

Your student children or a friend's student children might be very pleased to receive a copy of Geology of Victoria as a Christmas present. Perhaps you might even like one yourself.

Books can be picked up by contacting Bill Birch (9270 5049) at the Royal Exhibition Building basement. The prices are as follows.

Members: \$125

Nonmembers: \$145

Postage and handling \$10 extra if the book is to be mailed out.

Cash receipts will be issued (note these prices are GST free).

Institutional, credit card and GST inclusive sales have to be processed at the GSA's business office in Sydney. You will then be invoiced from the Sydney office. Write to:
The Business Manager, Geological Society of Australia
Suite 706, 301 George Street
Sydney NSW 2000

Telephone (02) 9290 2194 or e-mail misha@gsa.org.au

Using this method the prices are as follows.

Members: \$148. 50

Nonmembers: \$170. 50

Postage and handling of \$11 included; tax invoice/ receipt will be supplied.

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