

THE VICTORIAN GEOLOGIST

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THE GEOLOGICAL SOCIETY OF AUSTRALIA

April 2015

Victoria Division

Annual General Meeting

Thursday 30th April at 6:15 p.m.

The Newer Volcanics of Victoria

Julie Boyce

**School of Earth, Atmosphere and Environment
Monash University**

Fritz Loewe Theatre, School of Earth Sciences, University of Melbourne

Talk will be preceded by drinks from 5:30 pm in the 4th floor tearoom, cost \$2

The Pliocene–Recent Newer Volcanics Province (NVP) of southeast Australia constitutes the most recent phase of volcanic activity on the continent, with eruptions spanning from ~8 Ma to ca 5000 BP.

The NVP, and in particular the Mt Rouse magmatic volcanic complex, were studied in detail using desktop, fieldwork and laboratory-based techniques to gain further insights into the petrogenesis and occurrences of monogenetic volcanism in southeast Australia. A collation of eruption centres in the NVP was produced that documents >437 eruption centres from >729 vents, including

...ABSTRACT CONTINUED

many previously unmapped centres. Eruption centres in the NVP range from small, relatively simple scoria cones and lava shields, to maar volcanoes that form as a result of explosive magma interaction with groundwater and substantial multi-vent volcanic complexes.

With an average eruption recurrence interval of less than 10,800 years, the occurrence of mantle-derived CO₂, and evidence for a large area of elevated temperature in the lithospheric mantle beneath the eastern half of the province, the NVP is considered active. The hazards associated with continued volcanism are diverse. They include the more common lava flows and the ejection of molten pyroclastic material during cone formation, but also less common ash plumes (and disruption to air traffic), eruption column collapse (including base surges and pyroclastic flows), earthquakes, damage to infrastructure, bushfires and both casualties and loss of life.

With no volcanic contingency plans currently in place for southeast Australia, it is recommended that future research focus on the risks that renewed volcanism may pose to the general population.

SPEAKER BIO**Julie Boyce**

Julie is a Research Associate at Monash University Clayton, where she is completing a Ph.D. on the young volcanoes of Victoria and is involved in teaching, tutoring and outreach for geology and science communications. She is also participating in the ongoing construction of the Monash Geosciences Garden.

Before commencing at Monash, she completed a Masters in Geoscience at Keele University, UK, where she studied the welded air-fall tuff of the Middle Pumice eruption of Santorini, Greece. She then spent three months at the Smithsonian Museum of Natural History, Washington D.C.

Julie has published journal articles relating to her research on Santorini and the Newer Volcanics in The Journal of Volcanology and Geothermal Research, The Australian Journal of Earth Sciences, Geology Today and Contributions to Mineralogy and Petrology.

ANNUAL GENERAL MEETING

The Annual General Meeting for the GSAV will be held this month, 30th April, at the School of Earth Sciences, University of Melbourne.

All positions are open for nomination and listed below. The GSAV encourages 'new blood' for the committee and welcomes any and all nominations for the positions listed below.

Available Positions:

Chair	Melbourne University Representative
Vice-Chair	Monash University Representative
Secretary	Newsletter Editor
Treasurer	Investments Administrator

2015-2016 GSAV Committee Nomination Form

I nominate:

For the position of:

Nominator:

Seconded by:

All nominations will be presented and voted upon at the GSAV AGM on 30th April, 2015, commencing at 6:15 pm.

Please detach and mail this completed form specifying your 2015-2016 GSAV Committee nomination no later than 24th April to:

The Geological Society of Australia Inc. (Victoria Division)
GPO Box 2355, Melbourne VIC 3001

Alternatively, bring your completed form along to the meeting.

ANNUAL GENERAL MEETING

**2015 Annual General Meeting
of the Victoria Division of the Geological Society of Australia
Notice of Meeting**

The 2015 Annual General Meeting of the Victoria Division of the Geological Society of Australia will be held at 6:15 p.m. on Thursday 30th April 2015 in the Fritz Loewe Theatre at the University of Melbourne.

David Cantrill will present his Chairman's Report for 2014 – 2015 and the meeting will elect a new Geological Society Victoria Division Committee for 2015 – 2016.

Agenda

1. Minutes from 2013–2014 of the GSA Victoria Division AGM on Thursday 24 April 2014.
2. GSA Victoria Division Chairman's Report for 2014–2015
3. GSA Victoria Division Financial Report for 2014–2015
4. Bicentennial Gold 88 Endowment Report for 2014–2015
5. Heritage Subcommittee Report for 2014–2015
6. Awards Committee Report for 2014–2015
7. Election of Committee Members for 2014–2015
8. Call for nominations of a Divisional Councillor to the Governing Council
9. Other business.

Adele Seymon

Secretary of the Division, 17 April 2015

Minutes of the 2014 GSA Victoria Division Annual General Meeting**Opening: time and place**

- a. The meeting opened at 6.30 pm on Thursday 24th April 2014 in the University of Melbourne Fritz Lowe Theatre
- b. Apologies: Ingrid Campbell, Neil Phillips

1. Minutes of the previous meeting on Thursday 2nd May 2013

- a. Minutes were taken as read. Moved: Barbara Wagstaff; seconded: David Moore.

2. Chairman's report for 2013-2014

- a. David Cantrill presented his Chairman's Report for 2013 – 2014. His address included summaries of the Bicentennial Gold; Heritage and Awards reports.

3. Treasurer's report for 2013-2014

- a. Barbara Wagstaff presented the Treasurer's report for 2013-2014. The report was moved by David Moore and seconded by Susan White.

4.-6. Various committee reports

- a. Reports were addressed by the Chairman (see item 2. a.)

7. Election of the Victoria Division Committee for 2014 – 2015

- a. The following members of the Victoria Division were elected or appointed to form the Division's Committee for 2014 – 2015:

ANNUAL GENERAL MEETING

Division Officers

Chairman	David Cantrill
Secretary	Adele Seymon
Treasurer	Barbara Wagstaff

Division Committee Members

David Cantrill	Division Chairman
Vacant	Division Vice Chairman
Adele Seymon	Division Secretary
Barbara Wagstaff	Division Treasurer
Ingrid Campbell	Division Awards Subcommittee Chairman
David Moore	Division Investments Administrator
Kieran Iles	Division Newsletter Editor
Kieran Iles	Melbourne University, ESPG (Earth Sciences Postgraduate Group)
Hamed Aghaei	Monash Student Representative
Shannon Burnett	Division Education Subcommittee Chairman
Susan White	GSA Heritage Committee Chairman

Affiliates

Gerhard Krummei	Bicentennial Gold 88 Working Group Chairman
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8. Any other business

a. n/a

Closure

b. The meeting closed at 6.45 pm.

TREASURER'S REPORT

GSA Victoria Division BALANCE SHEET 2014

Balance sheet as at the 31 December 2014

CURRENT ASSETS	2014	2013
Cash and equivalents		
Cash at bank NAB	\$6,113.37	\$14,608.78
Cash at bank Bank of Queensland a/c#998752674	\$10,983.19	\$14,386.48
Cash receivable		
Publications	\$-	\$4,054.42
Capitation fees	\$-	\$3,435.00
Other debtors-franking credits receivable	\$4,250.12	\$2,694.56
Stock on hand 31st December		
Selwyn Symposium 1996	\$22.00	\$22.00
Selwyn symposium 1999	\$16.00	\$16.00
Selwyn symposium 2007	\$704.00	\$704.00
Extended abstracts: Selwyn symposium 2008	\$306.00	\$306.00
Extended abstracts: Selwyn symposium 2009	\$622.50	\$660.00
Extended abstracts: Selwyn symposium 2012	\$423.64	\$430.00
Geology of Victoria	\$20,983.68	\$26,064.28
Total stock	\$23,077.82	\$28,202.28

TREASURER'S REPORT

Interest Bearing Securities

Australian Foundation Investment Company Unsec.Red.Conv Notes	\$11,699.00	\$11,805.00
ANZ Banking Group Limited Convertible Preference Shares (CPS3)	\$10,198.00	\$10,275.00
Macquarie CPS Trust	\$21,887.00	\$22,084.80
National Australia Bank Income Security	\$16,358.79	\$15,663.90
Westpac Banking Corporation-Unsecured Deferred Settlement Notes	\$20,840.00	\$20,670.00
Westpac Stapled Preferred Security11	\$19,451.25	\$19,812.00
Woolworths WOWHC	\$-	\$2,194.71
Shares in listed companies		
ASX limited	\$18,370.00	\$18,380.00
Aurizon Holdings Ltd	\$15,338.40	\$16,201.60
Australian Foundation Investment Company Ltd	\$50,366.25	\$51,781.50
BHP Billiton Ltd	\$29,634.33	\$38,331.91
Commonwealth Bank of Australia	\$-	\$51,970.40
CSL Limited	\$13,868.80	\$11,033.60
Healthscope	\$12,949.92	\$-
Medibank Private	\$2,892.00	\$-
National Australia Bank Ltd	\$50,400.00	\$52,245.00
Wesfarmers limited	\$13,392.12	\$14,357.04
Westpac	\$48,413.60	\$-
Woolworths Limited	\$22,703.20	\$25,049.00
Property		
Investa Office Fund	\$-	\$15,650.00
Scentre Group	\$23,392.50	
Westfield Corporation	\$13,214.30	
Total Assets-Net Assets	\$459,793.96	\$464,955.62
Gain/Loss in value of investments/assets	\$(5,161.66)	\$60,489.43

MEMBERS FUND

\$459,793.96 \$464,955.62

Profit and Loss Statement for the year ended 31 December 2014

	2014	2013
Income		
Capitation fees	\$8,894.42	\$6,046.50
Franking Credits	\$2,062.43	\$9,335.00
GST reimbursement	\$838.90	\$725.97
Income from Sky night registration	\$150.00	\$-
Income from Selwyn Symposium 2014	\$1,445.00	\$-
Other book sales	\$504.80	\$-
Profit/(loss) on disposal of investments		
AIX Australian Infrastructure Fund Limited	\$68.64	
ANZ Bank	\$(0.61)	
Commonwealth Bank	\$14,654.13	
Investa Office Fund	\$960.10	
Sonic Healthcare	\$-	\$1,771.00
Woolworths WOWHC	\$39.50	
Bank Interest		
Bank of Queensland a/c#998752674	\$256.06	\$690.34

TREASURER'S REPORT

Equity income

ASX Australian Securities

	\$890.50	\$411.50
Aurizon Holdings	\$547.80	\$272.24
Australian Foundation Investment Company Ltd	\$1,831.50	\$1,831.50
AIX Australian Infrastructure Fund stapled securities	\$-	\$1,871.31
ANZ Bank	\$639.10	\$-
BHP Billiton Ltd	\$1,321.01	\$1,210.15
Commonwealth Bank of Australia	\$1,222.44	\$2,431.52
CSL Limited	\$197.97	\$169.02
National Australia Bank Ltd	\$2,970.00	\$2,850.00
Sonic Healthcare	\$-	\$287.50
Wesfarmers limited	\$733.50	\$2,850.00
Westpac	\$2,657.20	\$-
Woolworths limited	\$1,013.80	\$984.20

Interest Bearing Securites

Australian Foundation Investment Company Unsec.Red.Conv Notes	\$625.00	\$625.00
ANZ Banking Group Limited Convertible Preference Shares (CPS3)	\$397.73	\$441.50
Macquarie Group Limited	\$1,219.85	\$1,175.83
National Australia Bank Income Security	\$816.03	\$872.00
Westpac Banking Corporation-Unsecured Deferred Settlement Notes	\$1,076.84	\$1,132.28
Westpac Stapled Preferred Security11	\$1,700.99	\$908.36
Woolworths WOWHC	\$30.54	\$129.00

Property

Investa Office Fund	\$462.50	\$-
Scentre Group	\$2,037.19	\$-
Westfield Corporation	\$384.56	\$-

Gross profit/loss from trading

\$52,649.42 \$39,021.72

Expenditure

Bank charges	\$315.70	\$178.50
Conference expenses	\$6,754.29	\$-
Educational outreach	\$2,403.00	\$6,748.00
Investment commission	\$1,344.35	\$747.74
Meeting supplies etc.	\$124.75	\$537.48
Meetings-other costs	\$654.00	\$350.60
Major purchases	\$1,513.91	\$-
Newsletter printing	\$795.00	\$1,120.00
Newsletter posting	\$283.00	\$186.00
Other postage, printing and stationary	\$247.30	\$-
Prizes to students and grants	\$5,600.00	\$9,996.00
Storage facility	\$1,156.00	\$934.00
Website expenses	\$286.95	
Total expenditure	\$21,478.25	\$20,798.32

Operating Profit/loss

\$31,171.17 \$18,223.40

Barbara Wagstaff

GSAV Treasurer

SHARES REPORT

2014 was a quiet year for the market. The ASX 200 rose just 20 points over the 12 months, from 5333 to 5353. Despite this, the value of our portfolio rose by \$27,800 and together with \$5900 in franking credits, the return on investment was 7%. This is a good return, considering that approximately a quarter of our investment is in interest-bearing securities that generally have lower risk profile and so lower rates of return.

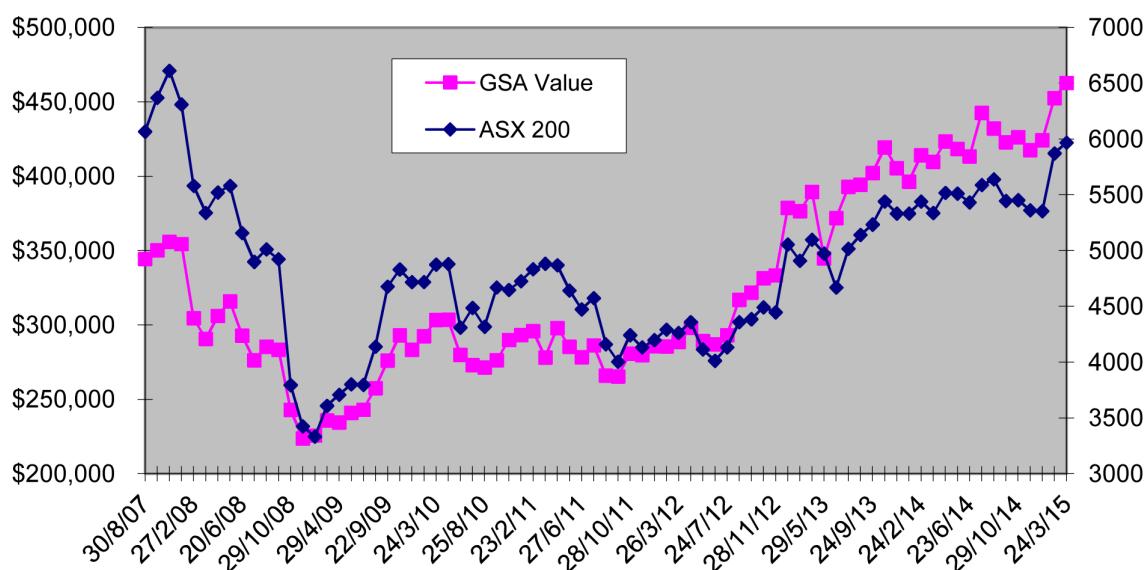
At the start of the year our share holdings included **Australian Foundation** (8325 shares, current holdings bolded), ASX Ltd (500, sold February 2015), **Aurizon Holdings** (3320), **BHP Billiton** (1009), **CSL** (160), Commonwealth Bank (668, sold March 2014), Investa Office Trust (5000, sold March 2014), **National Bank** (1500), **Wesfarmers** (330) and **Woolworths** (740). Other interest-bearing securities and notes included **Australian Foundation** (100), **ANZ Preference Securities** (100), **Macquarie Convertible Preference Securities** (215), **National Bank Income Securities** (210), **Westpac Subordinated Notes** (200), **Westpac SPS II notes** (195) and **Woolworths Notes** (21, sold March 2014). Since January 2014 we also purchased **Healthscope** (4761, July), **Medibank Private** (1200, November), **Scentre Group** (6655, July), **Spotless Group** (1504, February 2015). Westfield Group and Westfield Retail Trust reorganised in June 2014, and retained 1465 Westfield Corp shares, which were subsequently sold in February 2015.

Most shares made gains of \$1000 to \$3000 over the period and, together with their dividends, contributed to the overall result. The only share that lost significantly was BHP Billiton (approximately \$7600), resulting from falls in oil and iron ore prices. These price trends have continued although the share price is up almost 10% since the start of 2015. Other shares have also risen, probably as a result of the interest rate cut in February. The ASX 200 is presently just below 6000, and our portfolio presently has a value of \$463,000.

David Moore

GSAV Investments Administrator

GSA Shares; Absolute Performance



BICENTENNIAL GOLD 88 ENDOWMENT

Report for the Year 2014

Guided by this Endowment's mission to provide funds for the advancement of education and research in Earth Sciences for the benefit of economic geology in Australia, grants have been awarded to assist geoscience researchers with project costs in 2015.

Only seven applications were received for projects in 2015, five of which originated from Melbourne-based universities, with the remaining two coming from the University of New South Wales. These ranged across the fields of economic geology, mining-related environmental geology, hydrocarbon geology, conference presentation, technical education and training. All submissions were assessed in the final quarter of 2014, with recommendations submitted before year-end to the Secretary and Trustees for approval.

The sum of \$10,000 was again made available for distribution for the year 2015.

The successful recipients of support for 2015 activities are:

Monash University:

- To assist a 1st year Ph.D. student with costs of SIMS analyses for sulphur isotopes with the aim to help unravel the metasomatic processes controlling the redox state of the sub-arc mantle where most porphyry copper deposits are formed.
- To assist a 2nd year Ph.D. candidate to present the results to-date of his research on the structural framework of the BIF-hosted, high grade iron ore deposits of the Hammersley Province at the 'Iron Ore 2015' Conference in Perth, WA.
- Support for travel to the University of British Columbia, Vancouver for a 1st year Ph.D. student to gain expertise in reactive transport modelling related to a project focused on CO₂ sequestration in ultramafic mine tailings.

A disturbing and deeply disappointing development for this Working Group was the advice received early in the year that, following a review of the AusIMM Education Endowment Fund, the Trustees resolved to wind up the Bicentennial Gold 88 Endowment. This decision is at odds with the wishes of the original donors to establish this Endowment.

The contribution of Prof. Chris Wilson and Ms. Ingrid Campbell, GSA (Vic Div), to the assessment process is gratefully acknowledged.

Thanks also to the AusIMM Secretarial Support Team for its efficient administrative support and successful efforts to promote this Endowment.

GERHARD K. KRUMMEI
Chairman – Working Group
BG88 Endowment

07/04/2015

HERITAGE ANNUAL REPORT 2014-15

The Geological Heritage subcommittee has continued to work towards a better understanding of geological heritage in the state, although only limited work was able to be undertaken this past year.

The database of sites has been maintained. New sites continued to be added from previously published geological significance site reports and some recent consultancy reports. This database has had a few requests for information.

The committee has given advice to consultants and people wishing to object to particular development projects. We are always very careful regarding objections, as the GSA is not opposed to development *per se*. However some advice on the significance of particular sites continues to be useful. A very limited number of enquiries come from municipal heritage planners. This advice has been very minimal in the past year but fluctuates from year to year. There has been a few requests for support against particular developments, e.g. VCAT hearings, but these were made with insufficient time to produce them. The other issue here is that often people opposed to a particular development assume that the GSA's comments will support their position and that this will give legal support against such development. In fact, there is very little legal protection for geological sites in Victoria.

The major controversy this year continues to be the issue of the extension of the Beaumaris Motor Yacht Squadron (MYS) facilities at the Beaumaris Cliffs site. ML 310, 311 and 312. ML 310 and ML 311 are sites that have been assessed as being of international significance. This site was seriously damaged when the MYS was permitted to build the original facility, and access to the site is compromised. The lack of adequate legislation in Victoria to protect important sites is an added problem; collecting from the area has continued virtually unregulated. The list on the Register of National Estate has no legal status and neither does the GSA database of sites. There is no state managed database or department charged with this task (as in other states). The statement from The Royal Society of Victoria is a balanced one, and the GSA subcommittee is currently working on something similar. There is a current EES in progress, and I believe the report from this is expected some time later this year. There has been a flurry of concern and noise but there is very little we can actually do at the moment except put together a statement.

There have been a few articles on geoheritage published by subcommittee members and some presentations to workshops and conferences.

The committee continues to be heavily involved with the Bacchus Marsh Council Trench management committee.

I wish to thank the members of the subcommittee for their work throughout the year.

Susan White
Geo-Heritage Convener

AWARDS COMMITTEE ANNUAL REPORT 2014-15

2014 Selwyn Medal: Ian Duddy

Ian Duddy's Ph.D. research between 1975 and 1984 at the University of Melbourne involved sedimentology, geochemistry and diagenesis studies of the Early Cretaceous Otway Group volcanogenic sediments. In addition to investigating the diagenetic evolution of these rocks in unprecedented detail, he suspended work during the latter part of his thesis write-up in 1979 to work in collaboration with Andrew Gleadow on fission track dating of the volcanogenic minerals in the Otway Group. This work incorporated study of fission track ages of apatites from volcanoclastic sandstones in several deep drill-holes in southern Victoria, showing that the ages decreased from 120 Ma near the surface to zero near the bottom of the deepest holes providing a key demonstration of natural fission track annealing. This research led to the first systematic application of apatite fission track analysis (AFTA) in a sedimentary basin setting and the discovery that fission track annealing closely parallels hydrocarbon generation in sedimentary basins. During this time in the Melbourne fission track laboratory, Ian helped establish AFTA as a rigorous tool for thermal history assessment as applied to hydrocarbon exploration.



Ingrid Campbell with 2014 Selwyn Medallist, Ian Duddy

Following his Ph.D. work, he spent 1984 as a post-doctoral fellow at the Rensselaer Polytechnic Institute (RPI) in Troy, New York, working on fission tracks with Dr Don Miller. Subsequently, Ian worked in several research positions at the University of Melbourne carrying out fundamental fission track research and development work, where an understanding of laboratory based experiments allowed for the prediction of fission-track parameters in geological settings. Ian developed particular skills in the measurement of fission track lengths at this time, which were foundational in the many and varied applications that followed.

This work led to the publication with his colleagues of several highly cited seminal papers, in high-impact journals and led to Melbourne being acknowledged and acclaimed as a leading world centre in the burgeoning field of Thermochronology. An outcome of this work led to the formation of the Fission Track Research Group at the University of Melbourne, which included Research Fellows, post-graduate students and overseas visitors, and continues to operate as a group with a strong international profile to this day. During his time at the University, Ian was also involved with the supervision of eight Ph.D. scholars. Towards the end of the 1980's, the Research Group at the University of Melbourne dispersed, with part moving to Latrobe University, when Andy Gleadow became Professor there, and with Ian, Paul Green and Kerry Hegarty taking a different route and fully commercializing AFTA through Geotrack International Pty Ltd.

Later work by Ian and his colleagues resulted in the publication of numerous highly regarded works describing the thermal effects of fluid flow in sedimentary basins, based on the use of fission track analysis and vitrinite reflectance data. He also contributed more broadly to advancing our understanding of the geology of Victoria and southern Australia, for example through his writing of Chapter 9 on the 'Mesozoic' in the most recent 'Geology of Victoria' volume in 2003.

He enjoys showing other geoscientists, and especially students, the important lessons that can be learned in the Otway Basin and has led numerous field excursions around the basin over many years.

AWARDS COMMITTEE ANNUAL REPORT 2014-15

Ian Duddy has made important contributions to the geology of Victoria, and also many other parts of the world while based in Victoria (at Geotrack International Pty Ltd). He has played a key role in establishing the locally-developed technology of AFTA as a leading contributor to the field of Thermochronology and to the international Petroleum Industry.

Congratulations Ian!

The GSAV 2014 student awards:

The winner of the Frank Canavan Award for the most promising second year geology student in Victoria was **Craig Bolitho** from Federation University, Ballarat.

There were no candidates for the **D.E. Thomas Medal** this year, which is disappointing as we have not had candidates for two successive years.

The GSAV awards committee congratulates both scientists on their accomplishments and looks forward to watching their continued progress.

I would like to thank the members of the Awards committee again for their continued support during the year.

Ingrid Campbell

Chair, GSAV Awards Committee

EDUCATION ANNUAL REPORT 2014-15

In the past 12 months, the Education Subcommittee has been hard at work improving our involvement at education events such as Geography Teachers' Association of Victoria Annual Conference and Science Teachers' Association of Victoria Annual Conference. We are now the sole representative for earth sciences at these education conferences because the Mineral Council has pulled out of these events permanently. Our presence at these events has become increasingly important due to the introduction of earth sciences as a substantial part of the K-12 Science school curriculum in Victoria. Previously, earth sciences education had been almost non-existent in many Victorian schools (unless you had a great teacher who recognised that earth sciences are important to teach). This change in the school curriculum has led to an overwhelming increase in the number of enquiries to the GSAV booth at conferences. These enquiries have predominately been about professional development days for teachers and earth science teaching materials.

To enhance our presence at these events, the pull up banner was redesigned and a GSAV table cloth was produced. This makes the GSAV booth look much more professional. The eight earth sciences fact sheets that we distribute have also been reprinted as we ran out due to the increased interest from teachers.

During the next 12 months, I hope to start putting together more fact sheets to distribute (such as coal seam gas, volcanos, etc). I am also on the lookout for any materials to distribute to teachers at these conferences so if you have any ideas or materials you think are suitable please let me know.

Shannon Burnett

Education Subcommittee Chairman

AUSTRALIAN EARTH SCIENCES CONVENTION NEWS



Uncover Earth's Past to
Discover Our Future

26 - 30 June 2016 – Adelaide Convention Centre

aesc2016.gsa.org.au

Call for AESC theme and session suggestions

An exciting series of themes, symposia, fieldtrips and workshops is being put together by the AESC 2016 Organising Committee.



Proudly
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to you
by...



A preliminary taste of what is to come and who to contact if you want to make suggestions is outlined below.

- Earth's Environment** — Past to Present
- Tectonics of the Earth and Other Planets** — Craton and Continental Formation and Evolution, Ocean Plate Tectonics, Plate Margin and Plate Interior Tectonism
- Deep Earth Geodynamics** — Core, Asthenosphere and Lithosphere Dynamics, Coupling the Dynamic Deep Earth with Surface Tectonics
- Mineral Endowment** — Formation and Exploration of Mineral Deposits, their Tectonic and Geochemical Environment and Significance
- Geoscience for Society** — Geotourism, Education, Integration and Translation of Earth Sciences for Societal Benefit, Open the Gate, Geoscience and Community Engagement
- The Earth Science of Energy** — From Hydrocarbons to Hot Rocks

Committee

GENERAL ENQUIRIES:

Caroline Forbes
caroline.forbes@adelaide.edu.au

PROGRAM ENQUIRIES:

Alan Collins
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FIELD TRIPS AND WORKSHOPS:

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POSTER ENQUIRIES:

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PHOTO: Pleistocene sediments of the Hindmarsh Clay (red) and unconformably overlying Bridgewater Formation (white) in cliff exposures at Balgowan, Yorke Peninsula, South Australia. Photo courtesy of Caroline Forbes

www.aesc2016.gsa.org.au

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STUDENT FUNDING OPPORTUNITIES

Geological Society of Australia (Victoria Division) Student Research Scholarships

The scholarship is valued at up to \$500 for travel within Australia and \$700 for travel outside of Australia. The number of and value of the scholarships awarded each year is made at the discretion of the GSA(Vic) committee.

Funding will not be granted retrospectively and applicants are asked to submit forms no later than 6 weeks prior to their trip to give the committee time to consider the application.



Eligibility

Applicants must be members of the GSA and enrolled in a full-time degree at a Victorian Tertiary institution and undertaking research in Geology. The scholarship will be awarded to assist with conference travel for honours and postgraduate students, who are presenting (either poster or talk) at the conference.

Honours and postgraduate students that receive this scholarship will be required to submit a report for publication in 'The Victorian Geologist' newsletter following to their trip. A presentation may also be requested by the committee, which will consist of a short 10-15 minute presentation prior to the monthly seminar.

Students who have previously received a GSAV research scholarship are not eligible. Scholarships and bursaries from other sources are acceptable.

Applications forms can be scanned and emailed to: secretary@vic.gsa.org.au

or mailed to:

Geology Research Scholarships Victoria
Geological Society of Australia (Victoria Division)
GPO Box 2355
Melbourne VIC 3001

More information can be found by contacting Barbara Wagstaff (wagstaff@unimelb.edu.au)

Something interesting to share? Want to see your name in print?

Don't be bashful, contribute to the GSA(V) monthly newsletter!

If there are any events, happenings, news, or views that would be of interest to the membership, please send your details and information to Kieran Iles at kiles@student.unimelb.edu.au

We'd be glad to hear from you

FORTHCOMING SEMINARS AND EVENTS

to be presented at
GSA (Victoria Division) meetings

Note: unless otherwise indicated, all 2014 talks will be held in the
Fritz Loewe Theatre, Earth Sciences Building, University of Melbourne.

April 30th:

AGM: Julie Boyce

The Newer Volcanics of Victoria

May 28th:

Howitt Lecture: Bill Birch

Victorian gemstones; more than just history

Later this year (watch this space!):

Ken Grimes (August) - Northern Australian sandstone pseudokarsts

Helen Green - Dating Aboriginal Rock Art

Please welcome our newest members



Visit the GSAV on www.gsavic.org or the GSA on www.gsa.org.au
• Renewing your GSA membership is easy - it can now be done online. •

CONSIDER CONTRIBUTING TO TAG!

It is member contributions which make
TAG a member magazine – please keep the
contributions coming and assist with informing
all of the membership (not just your Division)
about your activities.

Please send your news to: tag@gsa.org.au



GSA (VICTORIA DIVISION) COMMITTEE

Please address all correspondence to the GSA Victoria Division
GPO Box 2355, Melbourne, VIC, 3001
Internet address: www.gsavic.org

OFFICE BEARERS

Chair:	David Cantrill	9252 2301 (BH)
Vice-chair:	position vacant	
Secretary:	Adele Seymon	0403 269 462
Treasurer:	Barbara Wagstaff	8344 6537 (BH)

COMMITTEE

David Moore	0409 977 120
Susan White	9328 4154
Kieran Iles	8344 9596
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