

# THE VICTORIAN GEOLOGIST



Geological Society of Australia

Victoria Division

Topic: GSA Vic Division Lunchtime Presentation

Time: Sep 30, 2020 12:00 PM Canberra, Melbourne, Sydney

Join Zoom Meeting: <https://zoom.us/j/96368662171>

Meeting ID: 963 6866 2171

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## **Australia's longest coastal cliffs: size, reasons, rarity**

Dr Gresley Wakelin-King

Wakelin Associates

Dept. Ecology, Environment and Evolution, La Trobe University

## Australia's longest coastal cliffs: size, reasons, and rarity

**Dr Gresley Wakelin-King**

*(Wakelin Associates + Dept of Ecology, Environment and Evolution, La Trobe University)*



G. Richardson, Commonwealth Dept. of Sustainability, Environment, Water, Population and Communities

### Speaker bio...

I'm a process geomorphologist specialising in drylands rivers and broadscale studies in the Australian rangelands. After studying geology at the University of Queensland, I went regional mapping with the NT Geological Survey in lovely Alice Springs. During my doctoral work (ephemeral rivers in western NSW, from La Trobe university) I became interested in the application of geomorphology to sustainable land management. I realised recently that I've been working in the arid lands since Hawkie was Prime Minister.



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## The 2020 Selwyn Medallist

The Victorian Division of the Geological Society of Australia established the Selwyn Medal in honour of Sir Alfred Selwyn, the eminent Victorian pioneering geologist and founder of the Geological Survey of Victoria.



**The award recognizes significant ongoing or former contributions of high calibre to any field of Victorian geology.**

The Awards Committee were delighted to present this year's winner of the 2020 Selwyn Medal at the August AGM Zoom meeting. The formal medal presentation will occur at the next face-to-face meeting of the Victorian Division. If you were unable to attend the Zoom meeting and would like to forward congratulations to Stephen please feel free to contact the Secretary at [gsavictoria@gmail.com](mailto:gsavictoria@gmail.com).

**Dr Stephen Gallagher**

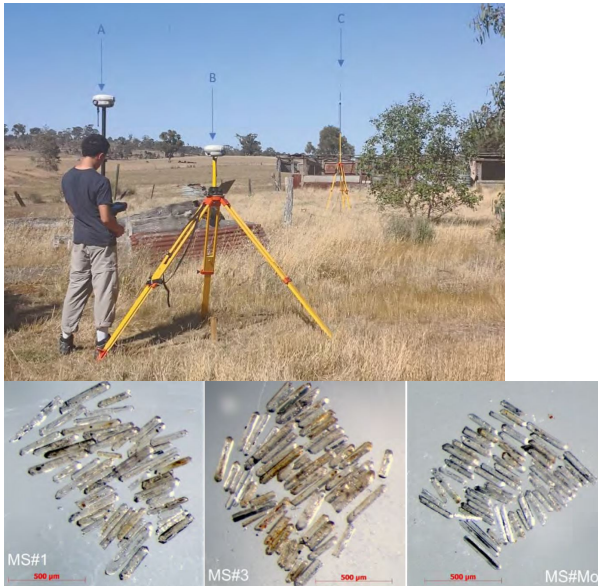


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## 2020 Student Medals

### D. E. THOMAS MEDAL

The D.E. THOMAS MEDAL for the best Honours or MSc thesis with a substantial field mapping component (including geophysical techniques) was awarded to Mikayla Sambrooks, School of Earth Sciences, University of Melbourne, for her MSc thesis entitled “Geometry and emplacement of the Tarnagulla Granodiorite, central Victoria: Evidence from potential field modelling and CATIMS U-Pb geochronology analysis” supervised by Mark McLean.



### *Highly Commended*

Gianni Mercuri, School of Earth Atmosphere and Environment, Monash University, received a Highly Commended for his Honours thesis entitled “Architecture of the Coolgardie Domain: Implications for Yilgarn Mineral Systems” supervised by Robin Armit and Laurent Ailleres.

### **FRANK CANAVAN AWARD**

The FRANK CANAVAN AWARD for the most promising second year geology student in Victoria

was awarded to Sean Finnigan, School of Earth Sciences, University of Melbourne, who had a very high geology subject average.

Congratulations Mikayla, Gianni and Sean. Well deserved!

These awards will be presented at the virtual student night in November.

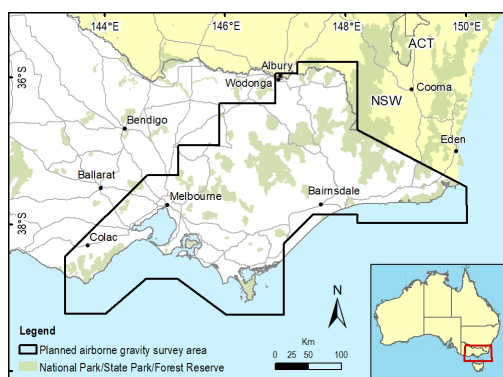
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## **Geological Survey of Victoria Airborne Surveys**

New airborne gravity surveys are planned to improve the vertical accuracy of GPS and to advance the understanding of Victoria’s geology. Attached is



an image of the planned survey area.



The airborne surveys are being collaboratively organised through Geological Survey of Victoria within the Department of Jobs, Precincts and Regions (DJPR), Surveyor-General Victoria within the Department of Environment Land Water and Planning (DELWP), and Geoscience Australia (Commonwealth Government).

The objective of the project is to collect consistent and evenly distributed gravity measurements. The new airborne gravity data will contribute to modelling and interpretation of geological and geophysical observations across the Southeast Lachlan Crustal Transect, a key geological reference section for eastern Australia. The results will improve the understanding of the geological architecture, earth resources potential and natural geological hazards of eastern Victoria. The data will also significantly improve Victoria's gravity model which is used to provide accurate and reliable heights from GPS positioning.

The airborne gravity survey data will be incorporated into existing state and national public geoscience databases and will be made publicly available by Geoscience Australia and the Geological Survey of Victoria.

An approach to market for the airborne gravity survey was released through AusTender on 14 September 2020. Following appointment of a preferred contractor a proposed time schedule for the airborne operations and data capture will be available.

The airborne gravity surveys will involve a small fixed wing aircraft flying along flight lines spaced about 1-2km apart. The aircraft will fly in public airspace at a nominated ground clearance of 150 metres, increasing to 300

metres over built-up areas. The gravity sensing instruments are passive and do not emit any signals or impact people, animals or infrastructure in any way.

As part of the Stakeholder Engagement Plan for the project, we are reaching out to stakeholders that may be involved in activities that might impact or be impacted by the airborne gravity surveys.

If you would like more information or further notifications regarding the airborne gravity surveys, please contact [smes.support@delwp.vic.gov.au](mailto:smes.support@delwp.vic.gov.au)

Regards,

Alex Woods

On behalf of  
SMES Support | Geodesy | Surveyor-General Victoria

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## Membership renewals for 2021

For those who haven't renewed their GSA membership yet for 2021, you can pay your dues by:

- Paying via credit card over the phone to the GSA Business Office on 02 9290 2194
- Mailing a cheque or a renewal form to the GSA Business Office (a self-addressed envelope and renewal form were enclosed with renewal notices)
- Paying via Electronic Funds Transfers  
Account Name: Geological Society of Australia Inc.  
(BSB: 082067 Account Number: 52-507-4491)
- Signing in and accessing your profile page on the GSA website ([www.gsa.org.au](http://www.gsa.org.au)).

Please see the following HELP videos if you encounter any difficulties:

- [How to re-set a password](#)

- [How to sign-in and pay online](#)
- [How to print a receipt/invoice](#)

If you need assistance, please contact the GSA office: [membership@gsa.org.au](mailto:membership@gsa.org.au)  
Want to know more about GSA membership? Contact us!

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## GSA Instagram

The Geological Society of Australia Instagram page <https://www.instagram.com/geologicalsocietyofaustralia/> now has over 32,000 followers!

Geologists from all over Australia have been submitting amazing images with a small text to describe it. You will see lava tubes, caves, folds, mines, building stones and much more. If you want to take part submit your image and text to Tim at our federal office [tim.holland@gsa.org.au](mailto:tim.holland@gsa.org.au)



Earth Science Week 2020 will explore a host of related questions: As scientists, engineers, inventors and others use raw materials to design innovative technologies and goods to meet human needs, how do we evaluate costs and benefits of using Earth materials? How do we adopt policies and practices that allow us to take advantage of the unique properties of raw materials efficiently, generating value while minimizing negative impacts both locally and globally? How do we address the complex, interrelated issues like resource management, waste management, biodiversity, climate change, circular economies, life cycle analysis, and models of sustainability?



Watch out for events around Victoria. The Council Trench team will be launching a range of events and materials.

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## **17 September Deadline Fast Approaching Governing Council 2021-2023 Victorian Division Councillor**

Can you bring your energy and enthusiasm, wisdom, business acumen and management experience, committee experience or professional skills to the Geological Society of Australia's governing council? Membership of the council will be both a significant, national, professional responsibility and an exciting opportunity for any Member committed to our profession, its standing and growth.

### **Background**

The Governing Council comprises of nine Councillors. Five General Councillors are elected by the membership and four Division Councillors are chosen by the Division (according to the Division rotational model). Council elections are held every two years and coincide with the GSA's biennial convention.

### **What does a councillor do?**

Participate in 4 meetings a year to develop:

- (i) the overall strategic direction of the Society for the benefit of the Society as a whole;
- (ii) formulation of the policy framework to be applied in the conduct of the activities of the Society;
- (iii) providing recommendations about initiatives aimed at enhancing the Society's objectives.

### **Who can be elected?**

Any Member in any of the following categories of membership who has been properly nominated to be elected or appointed:

Full Member  
Graduate Member  
Honorary Member  
Joint Member  
Life Member  
Retired Member  
Teacher Member  
Tertiary Student Member

### **How are candidates nominated?**

General Councillors

Nominations for candidates for General Councillors must:

- be in writing
- summarise their qualifications \* to serve as a General Councillor
- be supported by 2 Full and/or Retired Members.

### **Divisional Councillors**

A single nomination for Divisional Councillors must be submitted by the Divisional Committee to the Governing Council. Divisional nominees are to be endorsed by a meeting of the Division. The nomination from the Division must:

- be in writing
- summarise the nominee's qualifications\* to serve as a Divisional Councillor.

\* Qualifications should be limited to no more than 400 words in total.

### **Key dates**

17 September 2020: Call for General Councillor nominations

17 September 2020: Written advice to Divisions for Division Councillors

30 October 2020: Latest date for Division Councillor endorsement

20 November 2020: General Councillor nominations close

Nomination Forms:

[https://www.gsa.org.au/Public/Governance/Governing\\_Council/Nomination-forms---key-dates/Public/Governance/Governing-Council-Sub-Pages/Nomination\\_forms\\_key\\_dates.aspx?hkey=eb626fa6-2e34-4e66-aa7f-224c05f21a43](https://www.gsa.org.au/Public/Governance/Governing_Council/Nomination-forms---key-dates/Public/Governance/Governing-Council-Sub-Pages/Nomination_forms_key_dates.aspx?hkey=eb626fa6-2e34-4e66-aa7f-224c05f21a43)

President: Dr Joanna Parr, CSIRO

E: [joanna.parr@csiro.au](mailto:joanna.parr@csiro.au)



The Geological Society of Australia invites you to the first Virtual Australian Earth Sciences Convention 'Core to Cosmos', on the 9-12 February, 2021.

**The convention will showcase current trends and advances in earth science**, including the latest findings on the deep structure and composition of our planet, our diverse crust and surface environments, developments in the energy and resources sectors **and critically, the essential role that geoscience plays in our sustainable future.**

**Tasmania's rich geological past has resulted in a varied and beautiful landscape, unique flora and fauna and a colourful mining history which has underpinned the local economy for more than a century.** We hope that you can come south, enjoy our temperate summer and local attractions, and participate in a program showcasing the best of Australian earth science as well as field trips focussed on Tasmania's diverse geology. We look forward to seeing you in Hobart!

### **Theme 1: Energy and resources**

A systems approach to hydrocarbon and mineral resources; from exploration to remediation.

[Jonathan Cloutier](#) - University of Tasmania

[Caroline Tiddy](#) - University of South Australia

### **Theme 2: Earth structure**

Plate tectonics, regional geology, structure, metamorphism, tectonic architecture and geophysics of the deep earth.

[Jo Whittaker](#) - University of Tasmania

[Jack Mulder](#) - Monash University

### **Theme 3: Core to crust**

General and specific contributions concerning the geochemistry, mineralogy, petrology, and geophysics of the crust, mantle and core.

[Stephen Foley](#) - Macquarie University

### **Theme 4: Crust, surface and cosmos**

Geological and geochemical controls on earth system processes including origin and evolution of life on Earth and elsewhere.

[Indrani Mukherjee](#) - University of Tasmania

[Ashleigh Hood](#) - University of Melbourne

### **Theme 5: Geoscience in society, education and environment**

Exploring the role of geoscience in daily life, tourism, hazards, heritage, water and the environment.

[Claire Kain](#) - Mineral Resources Tasmania

### **Theme 6: Earth observations and models**

Understanding the dynamic surface of Earth with observations and computational inferences, analysis and modelling.

[Matt King](#) - University of Tasmania

### **Convention Co-Chairs**

A/Prof. Sebastien Meffre & Dr Andrew McNeill

Register here: <https://www.aesconvention.com.au/registration/>

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## **Forthcoming events**

Unless otherwise noted, all 2020 talks will be via Zoom meeting.

**November 11th:** Student's Night and Student Award Presentation

**December 12th:** Christmas Event - Talk and Quiz Night

TBC

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## **Student Scholarships**

The GSAV are pleased to offer scholarships for honours and postgraduate students in geological sciences for assistance with travel costs associated with attending conferences (fieldwork excluded). The number and value of the scholarships awarded each year is made at the discretion of the GSA Victoria committee. Up to \$500 for travel within Australia and between Australia and New Zealand and \$700 for travel elsewhere is available, paid half before and half after

the conference. More information, including the eligibility criteria and application form, is available at <http://www.gsavic.org/scholarship.html>.

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## Contributions to The Victorian Geologist

If there are any events, happenings, news, or views that would be of interest to the membership, please send your details and information to the secretary at [gsavictoria@gmail.com](mailto:gsavictoria@gmail.com).

Newsletter deadline: First Friday of the month, except for December and January.

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## Contribute to TAG

It is member contributions which make TAG (The Australian Geologist) 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](mailto:tag@gsa.org.au)

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## About the GSA Victoria Division

General information about the Geological Society of Australia and GSA Victoria Division can be found at [www.gsa.org.au](http://www.gsa.org.au) and [www.gsavic.org](http://www.gsavic.org).

Contact details for the GSAV Committee can be found at [www.gsavic.org/committee.html](http://www.gsavic.org/committee.html).

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