



**Chair (SA Division)**

**Prof Alan Collins**

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## **SOUTH AUSTRALIAN GEOLOGIST**

Newsletter of the  
Geological Society of Australia  
(South Australia Division)

**February 2021**

[http://bit.ly/GSA\\_SA\\_Division](http://bit.ly/GSA_SA_Division)

### **Excursion to Morialta Falls Friday, 26<sup>th</sup> February 2021**



### **Sedimentology, Stratigraphy & Structural Geology**

***Wolfgang Preiss, Kathryn Amos  
& Alan Collins***

**Details Email and Eventbrite link coming soon**

# News & Announcements

## Impressions from GESSS-SA2020 at Flinders University

The rescheduled GESSS-SA2020 was held on the 15<sup>th</sup> January 2021 at Flinders University and it was a huge success!!! Congratulations and a big 'thank you' to the organising committee chaired by Amy Tschirn for delivering an outstanding symposium. Thanks also to all the speakers, presenters, sponsors, helpers and attendees. Congratulations to Renée Tamblyn for best oral presentation and to Mitchell Bockmann for best poster presentation. A big thanks also to Wolfgang Preiss who gave us a good workout on the Conference Walking Tour.

[The Walking Tour Guide can be downloaded here.](#)

[A pdf file of the conference posters can be downloaded here.](#)





## GSA Specialist Group in Economic Geology 'Facets of Exploration' Webinar



**Specialist Group in Economic Geology**  
Geological Society of Australia

The GSA Specialist Group in Economic Geology (SGEG) invites you to our new webinar series

***Facets of Exploration***

***Exploration through in situ and transported cover  
in regolith-dominated terrains***

**Ravi Anand**  
CSIRO Mineral Resources



**3 February 2021**  
12 pm (AWST)

The **GSA Specialist Group in Economic Geology** invites you to attend the ***Facets of Exploration Webinar*** on **Wednesday 3 February 2021**.

Our speaker is **Ravi Anand**, who will be presenting the talk **'Exploration through in situ and transported cover in regolith-dominated terrains: my journey at CSIRO'**.

**Time: ACDT: 2.30pm – 3.30pm (SA)**

**As a GSA Member, you can watch the webinar for free – [please register here](#).**

Following registration, you'll receive a Zoom link before the webinar.



## WOMEESA Virtual Seminar Series



On the first Wednesday of each month a woman in Earth or Environmental science In Australasia will present a seminar about their research and their career pathway. The seminar series aims to increase the visibility of women scientists and provide inspiring role models for other scientists and science educators. Seminars will be hosted live via zoom.

**Next seminar: Wednesday 3<sup>rd</sup> February 2021, 2pm AEDT (Canberra, Sydney, Melbourne time)**

**Dr. Isra Ezad (Macquarie University): "Using computer vision to see mantle grain size: an experimental and computational approach to understanding grain size in the mantle".**

Register [here](#) for zoom details.



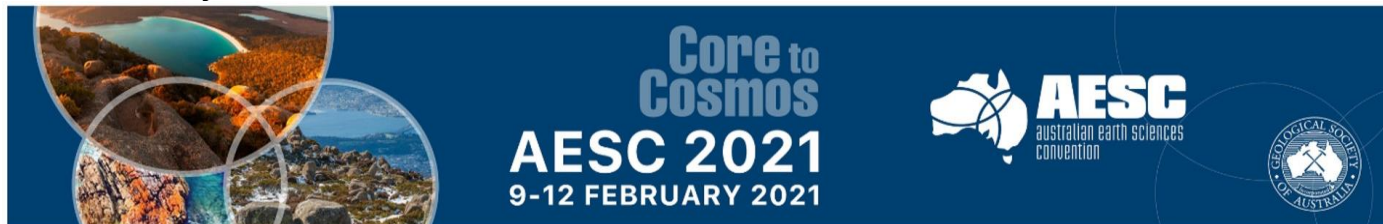
**Dr Isra Ezad**, is a postdoctoral fellow at Macquarie University, specialising in high pressure, high temperature experimental petrology. Isra recently completed her PhD at University College London, before joining Macquarie in January 2020.

Isra utilises multi anvil and piston cylinder apparatus to probe the interior of our planet, by generating pressures up to 23 GPa (equivalent to 660 km depth) and temperatures up to 2000°C. She is particularly interested in the physical properties of the mantle such as grain size and texture, as well as, understanding how elements essential to life such as carbon dioxide and water recycle back into the interior of our planet.

Past and additional seminars can be accessed on the [WOMEESA YouTube channel](#).

## **Australian Earth Sciences Convention AESC 2021: Core to Cosmos**

**9 – 12 February 2021 – Virtual Conference**



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. Themes for the convention include:

**Theme 1: Energy and resources**

**Theme 2: Earth structure**

**Theme 3: Core to crust**

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

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

**Theme 6: Earth observations and models**

**The ARGA Symposium at the AESC: Regolith in Australia: A global and multidisciplinary view  
Thursday 11 February 2021**

**Website:** [Click here](#)

**Registration:** [Click here](#)

## **GSA Governing Council Elections**

GSA members were invited to vote in the GSA Governing Councillor elections via an email from Survey Monkey. The ballot for the election closes on 9 February 2021, with the five highest ranking candidates declared at the AESC 2021 (9-12 February 2021). If you have not voted yet, please access the email titled 'Vote here for GSA General Councillor elections' from your inbox and click the green 'Begin Survey' button at the bottom of the email. You will then be able to read the profiles of the 10 nominees on the ballot and cast your vote. If you have not received the email inviting you to vote in the General Councillor elections, please check your spam or trash folders. If you still haven't received the email and would like to vote, please respond to [info@gsa.org.au](mailto:info@gsa.org.au) and you will be mailed a hardcopy ballot, which will be accompanied by a copy of the nominees' profiles, voting information and pre-paid self-addressed envelope.

### **Key dates:**

**9 February 2021: General Councillor Ballot closes**

**9 – 12 February 2021: Declaration of Governing Council at the GSA Annual General Meeting during the AESC.**

Detailed information related to the Election process, including forms and key dates are on this page [Governance](#)



## **GSA is going for GOLD**

GSA GOLD (GSA Geoscience Online Lecture & Discussion) is a series of online monthly technical talks and discussion sessions featuring dynamic speakers from GSA Specialist Groups. Presentations showcase the high-calibre research and work of influential speakers and also provides a platform for participants to connect with others in their field and beyond!



Registration for GSA GOLD is free for all GSA members, but non-members can also register for just \$10.00. Following your registration, you will be sent a link to attend GSA GOLD on Zoom.

**Next GSA GOLD: 2<sup>nd</sup> March 2021, 1.00 pm (ACDT)**

**Speaker: Heather Handley**, Associate Professor of Volcanology and Geochemistry at Macquarie University

**Topic:** Mainland Australia's next volcanic eruption:  
Where? How much warning time? How prepared are we?



**Register:** [Click here](#)

**Details:** Australia has a rich and fascinating volcanic history. The last volcanic eruptions in mainland Australia took place around 4,500-5,000 years ago and based on the time since last eruption, the mainland has two potentially still active volcanic regions. In this talk, current volcanological and petrological research will be integrated with preliterature knowledge of volcanic activity in Australia to explore: how likely a future eruption is in mainland Australia, what the warning signals might look like and how much time we may have to prepare should we detect signs of activity. Research into the Australian general public's perceptions of volcanic hazards and risk will be presented to discuss just how prepared we are for the next eruption.

**You can also watch GSA GOLD on YouTube:**

[Alan Collins presents 'The Flinders Fulcrum – Earth's Proterozoic Pivot'](#)

[Anthony Reid presents 'Magmas, metasomatism and the mantle: a journey through three papers I wish I had read earlier in my career'](#)

## **Call for 'Member Memories'**

You may remember this geological quiz photo sent in by **Bob Dalgarno** and included in the December 2020 – January 2021 newsletter. The photo below is of an antiform with inverse facing. The Question is 'Where was it taken?' A clue is that it is one of the oldest illustrated geological structures in South Australia and the location is celebrated by a great South Australian painter.

Ok, so here is the answer:

The location is the "**Hills of Arkaba**" and the artist who made them famous was **Hans Heysen**. The reason that the beds are downward facing is that it is a block (xenoclast) of Callanna Group in the Arkaba Diapir. The early record was a sketch by Alfred Selwyn in the 1860's.



## **South Australian Geoscience Student Group Sponsorship**

South Australian University Earth and Environmental Science-focused student groups can apply for GSA SA Division support for activities, excursions and events (up to \$500). All that is required is filling out an application form, provide a budget and commit to writing a short article for GSA's quarterly magazine, The Australian Geologist (TAG). Please contact [Anna Petts](#) or [Morgan Blades](#) for more information and an application form.

## The Geological Society of Australia Endowment Fund



The Geological Society of Australia (GSA) Endowment Fund was set up in 2007 to support students undertaking graduate studies in the Earth Sciences. The fund was set up as a separate entity to the GSA and the Australian Tax Office imposed elements that restricted this support to Australian students at Australian educational institutions. Financial assistance in the form of awards can be granted to Australian students by the GSA Endowment Fund Committee and the awards are not restricted to GSA members. The Geological Society of Australia Endowment Fund is a charity and all donations are tax deductible, so please give generously.

**The GSA Endowment Fund Awards:** Financial assistance in the form of awards can be granted to Australian students by the GSA Endowment Fund Committee and the awards are not restricted to GSA members. The grants may only be used as financial assistance for field costs (both in Australia and abroad), laboratory associated costs, including machine time (both in Australia and abroad), sponsorship to attend conferences and overseas study tours.

**Honours/Masters awards** – grants of up to \$1000 are available for Australian citizens in each state/territory undertaking either an Honours or a Masters course at an approved Australian educational institution.

**PhD award** – a single national PhD grant of up to \$5000 is available for one Australian citizen undertaking a PhD at an approved Australian education institution.

**Honourary awards** – Honourary awards can be granted at the discretion of the GSA Endowment Fund Committee and does include a monetary amount.

**Closing dates for the 2021 funding round is Friday 2 April.**

The 2021 application form will soon be uploaded to the [GSA Endowment Fund webpage](#) (look at the bottom of the page).



## **Geoscience Email Initiative: Video & Podcast Links**

Over the last few weeks you would have received a number of e-mails by our GSA CEO Sue Fletcher with links to a range of fantastic lectures, presentations, podcasts, interviews and documentaries by GSA members or with their involvement. Below you will find a list of these links, so if you have missed them you can easily catch up and know how to access them.

[Gilbert Price: What happened to Australia's Ice Age Megafauna?](#)

[Dorothy \(Dot\) Close: Northern Territory: Over The Fence](#)

[Paul Duuring: Mapping Ore Deposits - The Basic Geological Methods](#)

[Caroline Tiddy: Mineral systems in eastern Proterozoic Australia](#)

[Clive Willman and Davide Michielin: Geoscience: Beneath the Australian Alps](#)

[Marissa Betts: Small Shelly Fossils](#)

[Teresa Ubide: Volcano alert! Towards predicting volcanic eruptions](#)

[Clive Willman and Davide Michielin: Islands of Gold in an Ocean of Land](#)

[Jacqueline Halpin: Geologists explain why Tasmania is different](#)

[Ian Withnall: On the trail of the Ice-age Floods: Geotouring in the Channelled Scablands of Eastern Washington State, USA](#)

[Stephen Cox: Gold-bearing fluids Part 1; Stephen Cox: Gold-bearing fluids Part 2](#)

[Adele Pentland: \*Ferrodraco\* - the most complete pterosaur known from Australia](#)

[Vitor Barrote: 4D evolution of replacement-type VHMS ore systems in the Yilgarn Craton, Western Australia](#)

[Andy Gleadow: Murchison, the Moon & Me](#)

[Rick Valenta: Complex Orebodies Program Update](#)

[Yulia Uvarova: New technologies for exploration and ore discovery](#)

[Franco Pirajno: Civilisation exists by geological consent, subject to change without notice': the story of Pompeii](#)

[Alan Collins: Probing into the Proterozoic—using full-tectonic models of the world to illuminate the Earth in deep time](#)

[Rebecca Carey: Eruption of the Havre Seamount](#)

[Steve Salisbury: Australia's Jurassic Park](#)

[Dietmar Müller: Understanding the contribution of mantle convection to surface topography](#)

[Teagan Romyn & Dillon Brown: Felsic metastability during continental subduction: The Norwegian Western Gneiss Complex as a case study &](#)

[Evidence for Mesoproterozoic- & Cambrian-aged metamorphism from the high-grade rocks of central Tasmania: insights into the metamorphic history of western Laurentia and East Gondwana](#)

[Nathan Daczko: Crust-mantle interaction: reactive melt ascent through the lower arc crust](#)

[Nathan Daczko: Detrimental effects of coupled dissolution-precipitation on geochronology](#)

[Ashleigh Hood: Ancient reefs reveal early history of life on Earth](#)

[Michael Anenburg: REE in Nolan's Bore style mineralisation](#)

[John Paterson: In situ Science – Cambrian Explosion](#)

[Karin Orth: Volcanic remnants located near Long Beach, Blinking Billy Point, Hobart](#)

[Clive Willman and Davide Michielin: The Staveland Arc – uncovering the geological evolution of western Victoria](#)

[Tim Chapman: Meteorites, volcanoes and Armageddon](#)

[Ellen Moon: Environmental engineering in the 21<sup>st</sup> century – why we 'should' sweat the small stuff](#)

[Chris Elders: WASMA Mining & Resources podcast](#)

[Diego Garcia-Bellido: Animal Dawn](#)

[Sarah Jones: Unravelling the D1 event: evidence for early granite-up, greenstone-down tectonics in the Eastern Goldfields, Western Australia](#)

[Gary Gibson: The volcanoes beneath your feet](#)

[Milo Barham: How south coast beach sand tells the story of Australia's link to Antarctic rocks](#)

[Indrani Mukherjee: The Evolution of Life on Earth: Rethinking the 'Boring Billion'](#)

[Derek Hoy: Structural interpretation of the North Cloncurry geophysical survey.](#)

[Martin van Kranendonk: The search for life on Mars](#)

[Shimona Kealy: The earliest sea voyages to Australia: Maps, models, and anecdotes from the field.](#)

[David Giles: How innovative partnerships will grow Minerals and Mining in South Australia](#)

[Mike Rickard: My career as a field and tectonic geologist](#)

[Sandra McLaren: Victorian Regional Geology](#)

[Victor Gostin: Acraman asteroid impact at the dawn of animal life](#)

[Steve Barnes: Scale in mineral systems and the Nova deposit, WA](#)

[Rob Rutherford: Innovation and Sweat – Red Metal's Grass Roots Exploration Activities in NW Queensland](#)

[Aaron Camens: The extinct marsupial lion \*Thylacoleo carnifex\*](#)

[Teagan Blaikie: Interpreting the subsurface architecture of maar volcanoes using geologically constrained 3D gravity inversions. Examples from the Newer Volcanics Province, Western Victoria](#)

[Paul Gow: Undercover Western Warramunga Province: The Rover Field revealed](#)

[Stephen Gallagher: From Monsoons to Desert: 50 Million Years of Australian Climate History](#)

[Kathryn Waltenberg: An Isotopic Atlas of Australia: a window into the geological evolution of the Australian continent](#)

[Peter Schaubs, Heather Sheldon & Thomas Poulet: Numerical Simulation of Critical Mineral System Geological Processes](#)

[Paul Duuring: Genesis of Magnetite and Hematite Ores in BIF.](#)

[Sandra McLaren: Presenting Online](#)

[Kelly Tucker: Geoheritage: conserving our geological heritage and promoting geotourism.](#)

In addition we also suggest watching two videos of the SA Museum's School Holiday Program, where [Ben McHenry](#) presented Minerals, and [Diego Garcia-Bellido](#) presented Ediacaran and Cambrian fossils:  
<https://youtu.be/DZk1xOnDguc> & <https://youtu.be/OUVpSypxQUw>  
 Morgan Blades, our GSA SA Division Chair, has also set up a University of Adelaide 'Box', where we store recordings of online presentations of local GSA Members and other researchers.  
<https://universityofadelaide.box.com/s/s6olw2am0vog144xo21u45acfe0oj9fn>

## **Energy and Mining SA YouTube Channel**

Have also a look at the [Energy and Mining SA YouTube Channel](#), where you can find more videos produced by the SA Department for Energy and Mining.



## **Geoscience Pathways Project Update**

Please have a look at [GPP's webpage](#) for latest news, including Year 10 Climate Change Resources and The Copper Story Video. You can also find here Newsletter 25 Earth Science Week Special.



## **Renew your GSA Membership today!**

Have you received your 2021 GSA membership renewal notice? There are several different ways that you can pay including:

- Call the GSA Business Office on (02) 9290 2194 and pay via credit card
- 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 (make sure to quote your name and member no.)  
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

1: [Click here](#) to sign into the GSA website;

2: Click on your name at the top of the homepage;

3: Click on the orange **Renew Now** button. This will allow you to pay for your renewal.

Want to know more or need assistance in renewing your membership? Please contact the GSA Business Office on (02) 9290 2194 or email [membership@gsa.org.au](mailto:membership@gsa.org.au). Lapsed members can also reactivate their membership for 2021.

## **New Members**

Margaret Beal

Michael Green

## **Call for News Items**

The next issue of The South Australian Geologist will be published in early March 2021. If you have any news items that you would like to contribute to the next Newsletter, please send them to [Mario Werner](#) by Wednesday 24<sup>th</sup> February 2021.



## Upcoming Meetings of the GSA-SA Division

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### 2021 Program Proposal

**February: Morialta Excursion (Friday, 26<sup>th</sup> Feb)**

**March: AusIMM-GSA Joint Student BBQ Uni Adelaide**

**April: AGM**

**May: AusIMM-GSA Joint Lunchtime Meeting**

**June: Ralph Tate Memorial Lecture**

**July: TBA**

**August: Annual Dinner**

## Other Meetings & Events

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**Thursday 4<sup>th</sup> February 2021: Lecture**

**Ben McHenry: The Mineral Collection at the South Australian Museum**

**Sunday 28<sup>th</sup> February 2021: Excursion**

**Victor Gostin & Kym Dixon: Mangroves in Pt. Gawler**

**Thursday 4<sup>th</sup> March 2021: Meeting**

**Ian Lewis or Liz Reed: World Heritage Fossils, State Heritage Caves and the Kanawinka Fault at Naracoorte**

**Sunday 28<sup>th</sup> March 2021: Excursion**

**Kym Dixon, Mike Burrell, Cynthia Pyle: Mitcham Cemetery, Sleeps Hill, Mike's fossil collection**

For more details visit the [webpage](#) or contact [Frances Williams](#).

## Upcoming Conferences & Events

### AESC 2021 Australian Earth Science Convention



**9 – 12 February 2021 Virtual Conference**

**The ARGA Symposium at the AESC: Regolith in Australia: A global and multidisciplinary view**

[Register Here!](#)

For more information and website: <https://www.aesconvention.com.au>

### Uncover Curnamona 2021



**3 – 5 August 2021**

Uncover Curnamona is back in 2021 and will include presentations, workshops, core viewing and field trips. Discover new information and ideas from current mineral exploration, and from cutting-edge research by geological surveys, researchers and collaborative partners including the MinEx Cooperative Research Centre. Uncover Curnamona 2021 (UC2021) is a collaboration between the geological surveys of New South Wales and South Australia, Geoscience Australia and the Geological Society of Australia.

UC2021 is planned as a COVID-19 compliant, face-to-face conference. We will continue to monitor health/regulatory advice and announce any change in format as soon as practicable. We will also investigate additional live streaming and recording options.

Program:

Tuesday 3 August: Core viewing, and NSW and SA online systems (e.g. MinView and SARIG) support and demonstrations at the EC Andrews Drillcore Facility, followed by an icebreaker event.

Wednesday 4 August: A day of talks at the Broken Hill Civic Centre followed by an informal dinner. A final program will be available in April 2021. Sessions will include:

- MinEx CRC National Drilling Initiative projects (Delamerian, Mundi)
- Exploring for the Future Program, regional geology and geophysical acquisition projects
- Company exploration projects: geology and exploration rationale.

Thursday 5 August: A one-day field trip to explore the geology

[Registration: Coming soon](#)

Contact: [geoscience.events@geoscience.nsw.gov.au](mailto:geoscience.events@geoscience.nsw.gov.au)

## 9<sup>th</sup> International Acid Sulfate Soils Conference 2021

**Dates:** 21-26 November 2021

**Location:** Hotel Grand Chancellor, Adelaide

**Theme: Acid Sulfate Soils:**  
**Progress, Policy & Prospects**

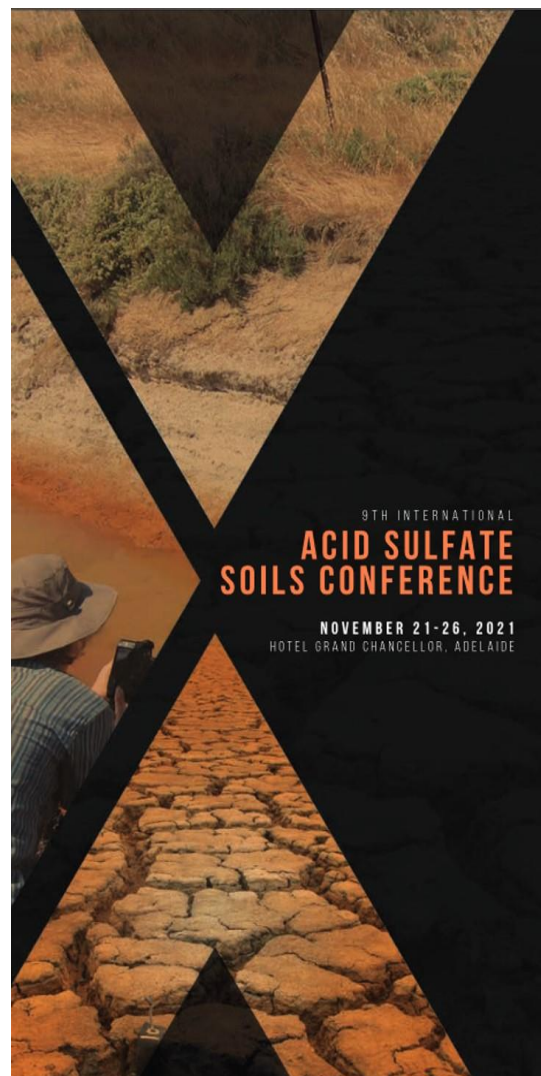
The 9th International Acid Sulfate Soils Conference (9th IASSC) is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of acid sulfate soil research, policy and management practices.

### **Key Dates**

- **Abstract Submission opens: OPEN NOW**
- **Conference Registration opens: OPEN NOW**
- **Abstract Submission closes 1st April 2021**
- **Early Registration closes 31st May, 2021**

**More information:**

<https://biological.adelaide.edu.au/acid-sulfate-soil/iassc/>



## 6ias International Archean Symposium & Target 2022



**Postponed now to 2022** Perth, Western Australia, University of Western Australia  
For more information and website: <https://6ias.org>

**Postponed now to 2022** Perth, Western Australia, University of Western Australia,  
University Club  
For more information and webpage: <https://target-2020.org/>



# Do you want recognition and accreditation for your area of expertise?



## GSA COVERS ALL GEOSCIENCE FIELDS OF EXPERTISE

Coal	Geohazards	Hydrogeology	Mining	Planetary Geoscience	Structural Geoscience
Environmental Geoscience	Geophysics	Industrial Minerals	Palaeontology	Regional Geoscience	Volcanology
Geochemistry	Geotechnical and Engineering	Information Geoscience	Palaeoclimate Geoscience	Sedimentology	
		Isotope Geochemistry and Geochronology	Petrology		
		Mineral Exploration	Petroleum and Gas		
		Mineralogy			

GSA Members that want to have an additional level of recognition of their expertise can do so with the GSA Accredited Geoscientist program.

THIS EVENT MAY EARN 20 UNITS IN GEOLOGICAL SOCIETY OF AUSTRALIA'S CONTINUING PROFESSIONAL DEVELOPMENT PROGRAM

IF YOU SEE THIS SYMBOL YOU KNOW IT ATTRACTS POINTS THAT GO TO YOUR GSA ACCREDITATION.

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PH: 02 9290 2194 | [info@gsa.org.au](mailto:info@gsa.org.au)

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# Do you want recognition and accreditation for your area of expertise?



GSA Members that want to have an additional level of recognition of their expertise can do so with the GSA Accredited Geoscientist program.

To recognise acquired expertise, 2 tiers of accreditation have been established. Accredited Geoscientist 5 (Ac.Geo.5) demonstrating five to ten years of expert geoscience practice and Accredited Geoscientist 10 (Ac.Geo.10) demonstrating 10 or more years of expert geoscience practice.

### Accreditation with another professional institute?

The GSA recognises that members may have accreditation with other organisations and we have catered for you.

### Cost

Ac.Geo.5 application fee is \$100.00

Ac.Geo.10 application fee is \$100.00

THIS EVENT MAY EARN 20 UNITS IN GEOLOGICAL SOCIETY OF AUSTRALIA'S CONTINUING PROFESSIONAL DEVELOPMENT PROGRAM

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[www.gsa.org.au](http://www.gsa.org.au)

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Georgina Virgo (AUGS Representative), [georgina.virgo@adelaide.edu.au](mailto:georgina.virgo@adelaide.edu.au)

**SA STRATIGRAPHY SUBCOMMISSION**

Mario Werner (convenor), Tania Wilson, Justin Payne, Jarred Lloyd, Rian Dutch

**SA GEOLOGICAL HERITAGE SUBCOMMITTEE**

Carmen Krapf (convenor), Ian Lewis, Bob Major

**SA GEOLOGICAL EDUCATION SUBCOMMITTEE**

Len Altman (convenor)

**SA FIELD GUIDE SUBCOMMITTEE**

Barry Cooper (convenor), Bob Major, Nick Langsford, Colin Connor, Ian Lewis, Pat James, Cynthia Pyle, Vic Gostin

**SA GEOTOURISM SUBCOMMITTEE**

Ian Lewis (convenor), Carmen Krapf, Pat James, Vic Gostin, Phil Plummer, Kevin Hamdorf, Mark Bishop, Mark Asendorf

**For GSA Subscriptions or address and email changes please contact Ms Sue Fletcher at our central office in Sydney by phone (02) 9290 2194 or email [info@gsa.org.au](mailto:info@gsa.org.au).**