

## THIRD CIRCULAR



**AGCC** Australian Geoscience  
Council **Convention**

**BIG ISSUES AND IDEAS IN GEOSCIENCE**

**14–18 OCTOBER 2018** | Earth Science Week

**Adelaide Convention Centre**

**[www.agcc.org.au](http://www.agcc.org.au)**

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## MESSAGE FROM THE PRESIDENT OF THE AUSTRALIAN GEOSCIENCE COUNCIL

As the Australian Geoscience Council Convention (AGCC 2018) fast approaches, the Organising Committee is pleased to release more information to assist you in making arrangements for your participation in the Convention in Adelaide during Earth Science Week this October — the major Geoscience event in the Australian Region, and hopefully by now in your calendar, for 2018!

This Third Circular includes:

- An updated program and new initiatives for young geoscientists
- The announcement of confirmed Plenary and Keynote speakers who will initiate the 'grand conversation' in their fields of expertise and around the broader issues facing us all
- More details on the **Big Issues and Ideas in Geoscience Day** on Tuesday 16th October. The Summits on four selected topics will be steered by leading geoscientists who are also highlighted in this Third Circular. These summits will be an engaging highlight of the Convention in which all delegates will be able to participate
- The much expanded list of field trips and workshops, with information on costs, deadlines and how to register.

The Organising Committee is aware of the economic challenges facing many delegates and we are pleased to introduce a new discounted registration fee for Early Career Geoscientists. The Early Bird Registration fee will be available until 7 July 2018, and generous discounts are offered for those of us in AGC Member Organisations or international societies with reciprocal agreements.

Don't miss the chance that this Convention provides to engage with everything related to Geoscience. We would particularly like to welcome young and early career geoscientists, those aspiring to become geoscientists and everyone passionate about rocks and how they influence the world around us. Come to Adelaide and present your ideas; the deadline for submission of abstracts is 16 June 2018.

We are very pleased to welcome Santos Ltd. as a major sponsor of AGCC 2018, alongside our Patron Sponsor Geoscience Australia. Santos will specifically support an interactive session with science teachers and Professor Iain Stewart from the UK. The South Australian Government is the Host Sponsor for the Convention.

The backing of our sponsors is critical for the success of the Convention, and we invite other companies and organisations to consider joining in to support this geoscientific gathering.

Exhibition booths in the GeoEXPO are selling rapidly. Don't miss the opportunity of being seen, to network and to expose your company and brand to potential customers.



AGCC 2018 is expected to attract over 2,000 delegates to participate in an exciting program covering the full breadth of Geoscience, debate topical issues, experience fascinating geology, get up-to-date with professional developments and workshop ideas, hold business meetings, and network with leading geoscientists from Australia and our Region. Whether you are from industry, government or academia, you will have days and evenings of interesting and relevant discussion based on the AGCC 2018 program. The details are still evolving and new information is made available on our website and social media feeds all the time.

We sincerely hope that you will be able to join us in Adelaide in October 2018.

**Dr Bill Shaw**

President Australian Geoscience Council | Chair AGCC 2018 Organising Committee

## CONVENTION ORGANISING COMMITTEE

Dr Bill Shaw, Chair - [president@agc.org.au](mailto:president@agc.org.au)

Ms Sue Fletcher, Secretary - [sue@gsa.org.au](mailto:sue@gsa.org.au)

Mr Kim Frankcombe, Treasurer - [kfrankcombe@iinet.net.au](mailto:kfrankcombe@iinet.net.au)

Mr Ashley Gordon, Director of the PCO (Carillon Conference Management) - [ashley@ccm.com.au](mailto:ashley@ccm.com.au)

Dr Graham Carr, Supporting Chair - [graham.carr@csiro.au](mailto:graham.carr@csiro.au)

Ms Leanne Gunther, Supporting Secretary - [admin@agc.org.au](mailto:admin@agc.org.au)

AusIMM - Treasurer Support

## AGCC 2018 SUBCOMMITTEES

### Scientific and Technical Program

Dr Chris Yeats [chris.yeats@industry.nsw.gov.au](mailto:chris.yeats@industry.nsw.gov.au)

*This Subcommittee has oversight of all aspects of the scientific program including invited speakers and the abstract submission, review and approval process.*

### Big Issues and Ideas Day

Dr Caroline Tiddy [caroline.tiddy@unisa.edu.au](mailto:caroline.tiddy@unisa.edu.au)

*This Subcommittee is developing the program of Big Issues and Ideas in Geoscience which will include invited speakers and discussions around topics of concern to all geoscientists and the public.*

### Sponsorship and Exhibition

Mr Mike Smith [mike\\_rpgeo@optusnet.com.au](mailto:mike_rpgeo@optusnet.com.au)

*Recruitment of sponsors and exhibitors, design and sale of exhibition and management of commercial engagement with the Convention.*

### Field Trips and Workshops

Mr Dale Sims [dalesims@tpg.com.au](mailto:dalesims@tpg.com.au)

*Field trip selection, content and management and oversight of workshops to be held before or after the Convention.*

### Early Career Geoscientists and Volunteers

Ms Genna McDonagh [genna.mcdonagh@gmail.com](mailto:genna.mcdonagh@gmail.com)

*Management of the volunteer and early career delegate programs.*

### Education

Associate Professor Dr David Cohen [d.cohen@unsw.edu.au](mailto:d.cohen@unsw.edu.au)

*Connection with the extensive group of Geoscience educators at all levels, including primary and secondary schools, tertiary institutions, ongoing professional development for geoscientists and raising the general awareness of the public about Geoscience.*

### Advocacy, Media, Protocol

Dr Angela Riganti [angela.riganti@dmirs.wa.gov.au](mailto:angela.riganti@dmirs.wa.gov.au)

*Representation of and engagement between Convention and government agencies and media; management of protocol matters.*

### Engagement with Stakeholders

Dr Steve Mackie [steve.mackie@geosimconsulting.com.au](mailto:steve.mackie@geosimconsulting.com.au)

*Management and liaison with Convention stakeholders.*





Adelaide Convention Centre. Image courtesy of Dr Bill Shaw, AGC President

## IMPORTANT DATES

<b>16 June 2018</b>	Abstract submissions close
<b>7 July 2018</b>	Early bird registrations close
<b>28 July 2018</b>	Formal notification to authors of acceptance or otherwise of Abstract
<b>18 August 2018</b>	Registration and payment deadline for presenters of papers (oral and poster) that will be included in the Convention
<b>30 August 2018</b>	Early Career Geoscientist registrations close
<b>01 September 2018</b>	Final program released (including submitted papers)
<b>6 October 2018</b>	Standard registrations close. A higher registration fee will apply to all registrations received after this date. No online registration will be accepted after this date. A higher onsite registration fee will apply to all registrations received onsite.

## OVERALL STRUCTURE AND TIMING OF AGCC 2018

<b>Pre-Convention Field Trips</b>	10 October – 14 October 2018
<b>Pre-Convention Workshops</b>	12 – 14 October 2018
<b>Registration opens, Exhibition set up, Business Meetings</b>	14 October 2018
<b>AGCC 2018 Welcome Reception</b>	Evening, 14 October 2018
<b>Opening Ceremony</b>	First session, 15 October 2018
<b>Scientific Program</b>	15 – 18 October 2018
<b>Big Issues and Ideas in Geoscience Day</b>	16 October 2018
<b>Business Meetings</b>	15 – 18 October 2018
<b>Convention Dinner</b>	Evening, 17 October 2018
<b>Closing Ceremony</b>	Last session, 18 October 2018
<b>Post-Convention Workshops</b>	19 October 2018
<b>Post-Convention Field Trips</b>	19 – 23 October 2018



TESEP teachers' excursion - Cape Liptrap, Victoria. Image courtesy of Greg McNamara.

## A SPECIAL REGISTRATION OFFER FOR YOUNG GEOSCIENTISTS

We are pleased to announce a special arrangement to encourage younger geoscientists who belong to any of the AGC eight Member Organisations to attend **AGCC 2018 Big Issues and Ideas in Geoscience** by providing a reduced registration offer.

**If you fit the criteria for Early Career Geoscientist (ECG) status, you can pay just \$765 for full convention registration. That's a saving of \$235 on the current full member rate.** The offer closes on **30 August 2018**.

This heavily discounted registration offer is available to individuals who are in the initial stages of a professional career in Geoscience. **The key eligibility criterion is that you must have five years or less experience as an employed professional geoscientist at the date of payment.** For many of our eligible ECGs, this will mean that you have 5 years or less professional experience since your highest qualification (whether BSc, MSc or PhD). However, some geoscientists may have undertaken, or be enrolled in a postgraduate degree part-time, while working full time as a professional geoscientist in their early years of employment and such circumstances will be considered on merit. ECG delegates will be provided with a visually distinctive delegate badge.

*Student Registration:* We remind everyone that if you are a student delegate, be sure to take advantage of the student member registration offer available at the AGCC 2018 website [www.agcc.org.au/registration](http://www.agcc.org.au/registration).

To take advantage of the ECG offer:

1. Go to [www.agcc.org.au/registration](http://www.agcc.org.au/registration) on or before 30 August 2018
2. Complete the on-line registration form, selecting the ECG registration option and make immediate payment by credit card (all major cards accepted).

You will receive confirmation of your registration within 24 hours. Please note that this registration is not available in conjunction with any other discount and immediate payment is required. Cancellations terms apply.

The AGC and its Member Organisations encourage young geoscientists to take advantage of this special time-limited offer and join us in Adelaide for AGCC 2018 **Big Issues and Ideas in Geoscience**.

ECG delegates are also invited to consider participation in the "Three-Minute Rapid Fire Presentations" described later in this circular.

**This initiative is designed to enable a large number of young geoscientists, across all fields, to participate in a test of their abilities to rapidly and effectively communicate their science to a diverse audience.**



## REGISTRATION FEES

Registration for the Convention is open and available through the **online registration portal**.

To qualify for the current Early Bird registration rates, registration with payment must be made by 7 July 2018. Official letters of confirmation will be provided to delegates by the Convention only after clearance of registration fee payment.

We will provide discounts to members of AGC Member Organisations (see p. 39), and honour reciprocal arrangements they have with international organisations. Please refer to the **[www.agcc.org.au/registration](http://www.agcc.org.au/registration)** portal for the full details.

All registration fees shown are in Australian Dollars (AU\$) and include 10% GST.

Full Delegate Registration Fees	
Early Bird (Member) Closes 7 July 2018	AU\$1,000 (+ AU\$25 extra discount per society)
Early Bird (Non Member) Closes 7 July 2018	AU\$1,200
Early Career Geoscientist Available to geoscientists who are eligible (see section above) Closes 30 August 2018	AU\$765
Standard (Member) Closes 6 October 2018	AU\$1,200 (+ AU\$25 extra discount per society)
Standard (Non Member) Closes 6 October 2018	AU\$1,400
Late (Member)	AU\$1,400 (+ AU\$25 extra discount per society)
Late (Non Member)	AU\$1,600
Student (Member)	AU\$250
Student (Non Member)	AU\$500
Concession - Early Bird (Member) The concession rate is available to retired and unemployed geoscientists. Status of employment at time of registration will be assessed by the relevant Member Organisations.	AU\$600
Concession - Standard (Member) The concession rate is available to retired and unemployed geoscientists. Status of employment at time of registration will be assessed by the relevant Member Organisations.	AU\$800
Concession - Late (Member) The concession rate is available to retired and unemployed geoscientists. Status of employment at time of registration will be assessed by the relevant Member Organisations.	AU\$1,000

### Delegate registration fees include:

- Convention attendance
- Morning & afternoon refreshments
- Lunch during the Convention
- Attendance at the Welcome Reception
- Delegate bag including the convention materials
- Program & abstract access

### Exhibitor staff registration includes:

- Morning & afternoon refreshments
- Lunch during the Convention
- Access to the Exhibition area
- Attendance at the Welcome Reception
- Excludes access to the Convention sessions
- Excludes access to the Convention Dinner

## AGCC 2018 SPONSORS

AGCC 2018 is delighted to acknowledge our Patron Sponsor Geoscience Australia, Australia's pre-eminent public sector Geoscience organisation and the nation's trusted advisor on the geology and geography of the country.

We are pleased to welcome **Santos Ltd**, one of the leading independent oil and gas producers in the Asia Pacific region, as a Major Sponsor of AGCC 2018.

### Patron Sponsor



**Australian Government**  
**Geoscience Australia**

### Major Sponsor

**Santos**

We also acknowledge the sponsorship and support of numerous other companies and organisations, whose participation is ensuring AGCC 2018 will be a Convention to benefit the Australian Geoscience community as a whole.



**BHP**

## AGCC 2018 PROGRAM FORMAT

The preliminary overall schedule for AGCC 2018 is presented below, with the proviso that this may change substantially once delegate numbers have been finalised.

The AGCC 2018 program has two main components:

- A full day (Tuesday 16 October) is dedicated to the overall Convention's theme ***Big Issues and Ideas in Geoscience*** – energy security, resource development in Northern and Regional Australia, Geoscience education and communication, and the impact of boom-and-bust commodity cycles. These Summits are expected to generate vigorous discussion led by experts in their respective fields
- On Monday 15, Wednesday 17 and Thursday 18 October, concurrent symposia will address the five main themes and over 60 subthemes selected for the Convention. New subthemes, offering an even broader spectrum of geoscientific topics, have been introduced after the release of the Second Circular — these are detailed in the tables below. A list of all proposed sessions with full descriptions is available at [www.agcc.org.au/themes-symposia](http://www.agcc.org.au/themes-symposia).

Numerous Plenary and Keynote speakers have been confirmed for both the Big Ideas Summits and to introduce the scientific symposia, and are also presented in this Circular. Short biographies for each Plenary and Keynote speaker are available at [www.agcc.org.au/speakers](http://www.agcc.org.au/speakers), where more speakers will be added as their attendance is confirmed.

The Adelaide Convention Centre offers numerous venues, and we plan to hold up to 10 concurrent sessions, accommodating a total of 560 individual oral presentations during the course of the Convention, in addition to opening and closing ceremonies and plenary talks. Posters will also be displayed at all times in the central area of the GeoEXPO, right next to the GeoHUB Catering and Networking Café.

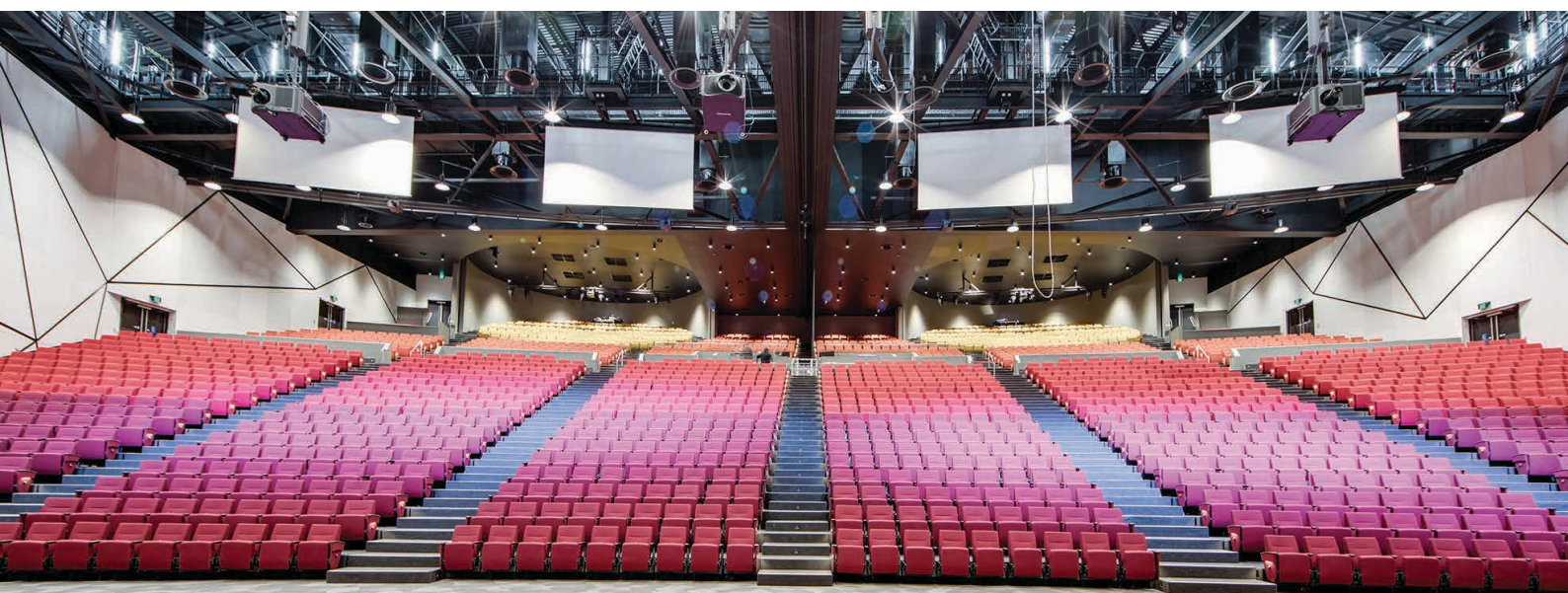
Once again, we take this opportunity to thank the Big Ideas leaders, theme convenors and subtheme champions for putting together a broad-ranging, topical and engaging program that will offer delegates the opportunity to examine and consider important issues that affect all geoscientists and other stakeholders in Geoscience.



## Preliminary Schedule for AGCC 2018

Time	12 – 14 October	Monday 15 October	Tuesday 16 October Big Issues and Ideas in Geoscience Day		Wednesday 17 October	Thursday 18 October	Friday 19 October
8:00	Pre-Convention Workshops	Exhibition Open	Exhibition Open		Exhibition Open	Exhibition Open	Post-Convention Workshops
8:30		Opening Ceremony	Big Issues and Ideas Day Introduction		Plenary Resource Security into the Future	Plenary Applied Geoscience – Geohazards, Risks and Society	
9:00		Plenary Earth Climate – Past and Future	Energy Security	Resource Driven Development			
9:30		Tech Sessions	Morning Tea		Tech Sessions	Tech Sessions	
10:00							
10:30		Morning Tea					
11:00		Morning Tea	Energy Security	Resource Driven Development	Morning Tea	Morning Tea	
11:30		Tech Sessions			Tech Sessions	Tech Sessions	
12:30		Lunch	Lunch		Tech Sessions	Tech Sessions	
1:00							
1:30		Lunch	Lunch		Lunch	Lunch	
2:00		Plenary Life Origins and Evolution	Education & Communication	Boom & Bust Cycles	Plenary The Future of Geoscience in our Society	Plenary Applied Geoscience – Geohazards, Risks and Society	
3:00		Tech Sessions	Afternoon Tea		Tech Sessions	Tech Sessions	
3:30		Afternoon Tea	Education & Communication	Boom & Bust Cycles	Afternoon Tea		
4:00		Tech Sessions	Big Issues and Ideas Day Synthesis		Tech Sessions	Closing remarks	
4:30							
4:45							
5:00							
5:30	Sunday 14 October Welcome Reception	Posters/Drinks Exhibition	Posters/Drinks Exhibition		Posters/Drinks Exhibition	Closing Drinks	
5:45							
6:30		Invited Functions/ Meetings	Invited Functions/Meetings		Convention Dinner		

Note that field trips are held pre-, syn-, and post- Convention



The new Adelaide Convention Centre East Plenary Hall. Image courtesy of ACC.

## BIG ISSUES AND IDEAS IN GEOSCIENCE DAY – Tuesday, 16 October 2018

Tuesday 16 October 2018 is set aside in the AGC Convention program for consideration of the four ***Big Issues and Ideas in Geoscience*** identified for this Convention.

Our objective is to focus on four specific Big Issues where Geoscience interacts with society. There will be presentations and arguments representing all views on these very topical issues. We are putting together a great line-up of speakers led by well-known convenors who will help us explore the issues, seek input from you in the audience and help us develop strategies to move forward. These strategies will be the Ideas that we are seeking to develop and take to Government, our colleagues and the community.

The day will feature two concurrent Summits in the morning and two in the afternoon (see AGCC Schedule on previous page). Each Summit will be introduced and moderated by the convenor. The issues addressed are closely aligned with symposia in the scientific program and are intended to promote discussion and debate:

- |  |          |                        |
|--|----------|------------------------|
| • Our energy trilemma options – security, accessibility and sustainability | Convenor | Dr Bruce Godfrey       |
| • Resource driven development of Northern and Regional Australia           | Convenor | Dr Richard Blewett     |
| • Geoscience education and new modes of communication                      | Convenor | Professor Iain Stewart |
| • Smoothing the impact of boom and bust commodity cycles                   | Convenor | Dr Allan Trench        |

Full outlines of the Summits and biographies are available at [www.agcc.org.au/big-issues-ideas](http://www.agcc.org.au/big-issues-ideas). Confirmed speakers are listed below.

### Our energy trilemma options – security, accessibility and sustainability

**Dr Bruce Godfrey**

Our energy supply and storage systems, fixed and those for transport, are rapidly transitioning away from the long-used earth resources (coal, oil, nuclear) to gas and above-ground resources (wind, solar, hydro, battery). *So what is the future for geoscientists and non-renewable resources in contributing to the security, equity and sustainability balance of the energy trilemma?*

Solving this puzzle requires policy measures that create and sustain supportive markets, regulations and financing for the deployment and development of low emission energy supply, and new technologies. Finding agreement among policy makers, regulators, technology advocates and activist groups has, in recent years, resulted in a lot of ‘dirty words’ as options for a ‘clean world’ being debated at local, State/Territory, Federal and international levels.

Diminishing coal and gas reserves, worries about nuclear energy options and environmental agitation about unconventional gas (fracking and the “shut the gate” movement) all sit uneasily with the Australian public. How can the Geoscience community provide objective science to quell the alarmists and move forward in the face of this dilemma?

This Summit will explore the challenges and opportunities for earth resources and geoscientists in energy supply and use.



**Professor Peta Ashworth** is the Chair in Sustainable Energy Futures at the School of Chemical Engineering and an Affiliate Professor at both the Centre for Coal Seam Gas and School of Social Sciences at the University of Queensland.

Her draft topic for the Summit is ***‘Social licence to operate in a post scientific truth world’*** in the context of Earth-based energy resources

## Resource-driven development of Northern and Regional Australia

Dr Richard Blewett

The development of Northern Australia, a vast area of land with a sparse population in close proximity to our Asian neighbours and markets, is one of the great nation-building opportunities for the 21st Century. Leaders in various field will outline their perspectives and those of their main stakeholders on how they would like to see Northern and Regional Australia in 2050, and the challenges and opportunities that may arise in getting there.

Participants leading this debate include representatives from Government (Commonwealth and State), Local Council, Traditional Owners, Pastoralists and Industry (Mining and Energy).



**Councillor Jacinta Nampijinpa Price** is a Warlpiri/Celtic woman who has grown up in Alice Springs. She has worked as a Cross Cultural Consultant for the past 17 years, e.g. as Assistant Curator at the Araluen Galleries, Assistant Curator at the Museum and Art Gallery of the Northern Territory, and Project Manager at Desart.

Councillor Price has co-produced and performed as part of the indigenous children's television program Yamba's Playtime for seven years. She is currently the co-founder and director of Yangapi Productions, which produces the popular children's TV series.

She is an Indigenous Leader, passionate about improving the lives of indigenous children, addressing tough issues such as domestic violence and helping build a unified community.



**Madam Mayor Joyce McCulloch** is the Mayor of Mt Isa, where she has lived for over 30 years. In this and prior roles, she has strived to drive and grow the key tourist events and attractions in the City, as well as supporting many community groups and varied regional activities.

She is heavily committed to tourism in Mount Isa and the region and, as a former North West Queensland representative of Outback Queensland Tourism Association (OQTA) and current holder of the elected Chair's position of the Overlanders Way (a touring route from Townsville to Tenant Creek), has come to recognize the many untapped opportunities available to the city. She supports our national defence forces in her role as Chair of the Defence Reserve Support Council for North West Queensland. She is also a member of the Resources 2030 Taskforce advising Government and a member of the Mining Cities Alliance.



**Warren Pearce** is the CEO of the Association of Mining and Exploration Companies Inc. (AMEC).

Warren is an experienced leader with a proven record of achievement working in both the public and private sectors. Before joining AMEC, Warren has worked in significant advocacy and membership organisations, including the Chamber of Minerals and Energy of WA (CME), the WA Local Government Association (WALGA), and as a Senior Adviser in Government across a wide range of areas such as planning, infrastructure development, ports and public transport.



*Drilling rig operating in the Late Carboniferous to Cretaceous Cooper–Eromanga Basin. Image courtesy of Steve Mackie.*



## Geoscience education and new modes of communication

## Professor Iain Stewart

This Summit will focus on how to get what we want (for Geoscience) by addressing two questions: *What are our messages? How do we get them to our target audiences?*

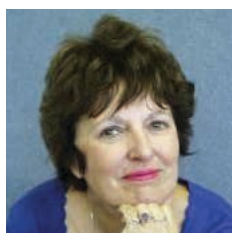
Not only do we need clarity of purpose, but we must face up to the fact that others have already become proficient and effective at advocacy. A long-term strategy is needed that we can all support and benefit from.

Geoscientists are well-placed through their training and experience to add value to education (as highly trained professionals), to policy (who are flexible), to society (adaptable) and to the future (problem solvers). These are large, complex, unconstrained systems for which we have many appropriate skills.



**Aidan Lavery** is Manager Science across radio, TV and digital platforms at the ABC — Australian Broadcasting Corporation, following stints as the Executive Producer for the popular ABC's Science program *Catalyst* and as Commissioning Editor (Science and Natural History and Make it Digital Season) for the BBC (British Broadcasting Corporation). A self-described 'tech-obsessed', he is passionate about generating content and digital experiences to create 'stories' that connect with audiences.

His topic for the Summit is **'Selling popular science via broadcast media — challenges with new digital and online media landscape'**.



**Emeritus Professor Susan (Sue) Stocklmayer AO**, is Professor of Science Communication at the Australian National Centre for the Public Awareness of Science, Australian National University and was the Director of the Centre from 1998 to 2015. As part of the University's outreach programs, she has presented festival science shows, lectures and workshops on all five continents.

Sue grew up in Zambia, graduated in physics and chemistry from the University of London and worked on the Zambian copper mines as a chemist. She emigrated to Australia with her family in 1982 after co-directing an extensive hands-on science program for rural students in Zimbabwe. In 1996 Sue moved to The Australian National University as the founding lecturer in Science Communication. She was awarded an AM in 2004 for science communication initiatives, and an AO for science communication and science education in 2016. Sue thinks that science communication is the best possible mixture, combining science, theatre (a lifelong interest), multicultural and gender issues and a host of other things at the interface between science and the public.

Her topic for the summit is ***Communicating with the public – where do we go wrong?***



ESWA Workshop, Australian Science Teachers' Association Conference, Perth. Image courtesy Earth Science Western Australia.



## Smoothing the impact of boom and bust commodity cycles

Dr Allan Trench

Ensuring geoscientists are engaged in meaningful work through good times and bad is challenging for individuals and for our society. We need to critically consider: *What can industry, university, government and professional organisations do better to support Geoscience (our understanding of the Earth) and our capability to contribute to national wealth, during the busts as well as during the boom times?*

To overcome the cyclicity of metals and energy commodity prices, geoscientists must consider how to future-proof their profession.

This is all part of a bigger question. Arguably, Geoscience is critical for economic development, but few of us work on issues related to sustainable development. If Geoscience is to be useful to society then how does our professional community make itself more relevant to the complex issues around how we maintain economic well-being, while addressing poverty, hunger, social justice and other sustainable development goals?



**Miriam Stanborough** is Group Manager – Productivity & Innovation at Monadelphous Group Ltd. She is a chemical engineer with 17 years' experience in the minerals processing industry, across commodities including copper, uranium, gold, silver, alumina and mineral sands. Miriam has previously held roles in Technical Development, Production Management, Business Improvement, HR & Diversity strategy, Project Management, and Sales & Marketing. She also holds degrees in Arts and Mineral Economics, is a member of the Australasian Institute of Mining and Metallurgy, and a graduate of the Australian Institute of Company Directors.

Miriam will speak around the subject of innovation management as a means to combat boom/bust cycles.

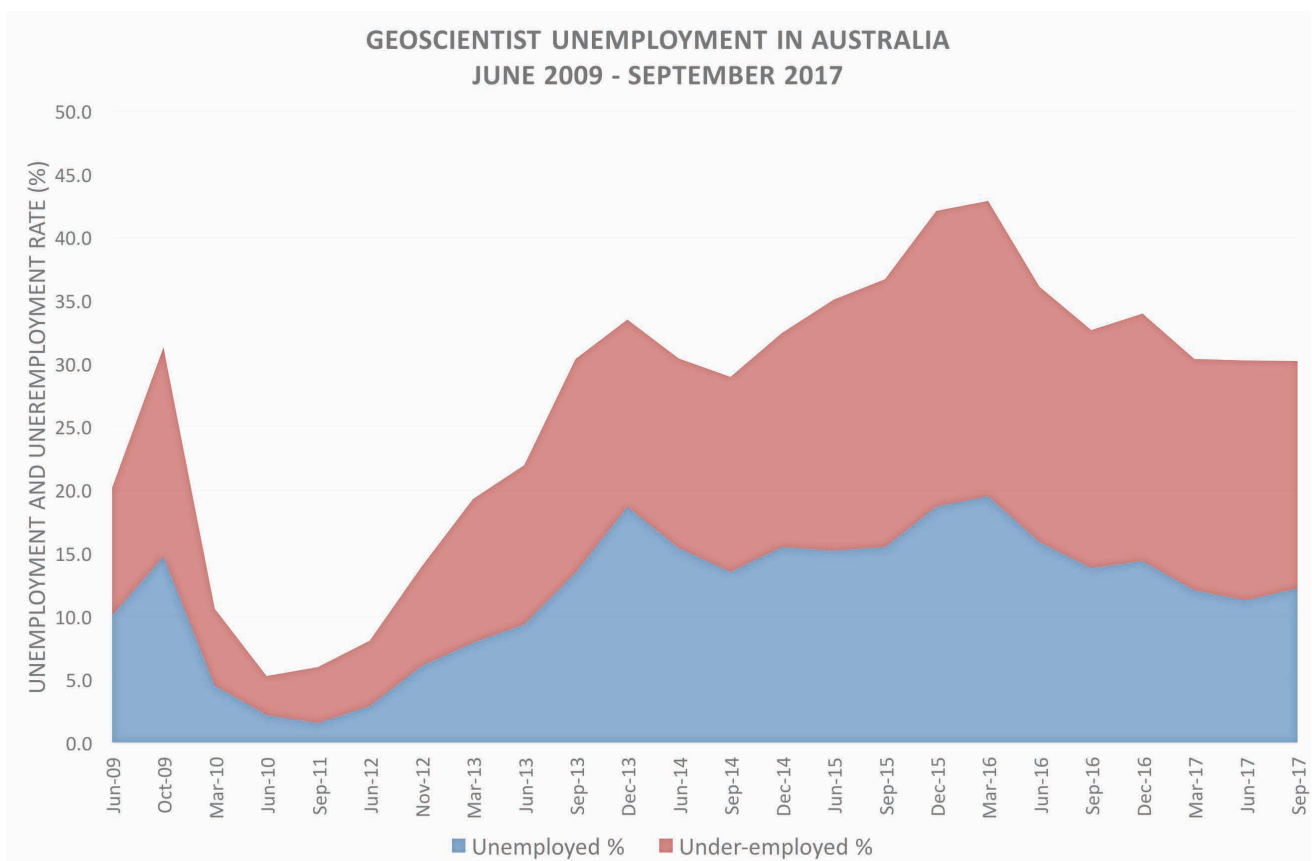


Image courtesy Australian Institute of Geoscientists.

## SCIENTIFIC AND TECHNICAL PROGRAM

The Scientific Program is organised around five Themes, each including numerous Subthemes:

- **Theme 1: Understanding the Earth** Professor Dietmar Müller
- **Theme 2: Life on Earth – origins and diversity** Professor Simon George
- **Theme 3: Resources – discovery, development, use and sustainability** Dr Kevin Cassidy
- **Theme 4: Applied Geosciences in the 21st Century – innovation, technology and the future** Chris Woodfull
- **Theme 5: Beyond the rocks – Geoscience in our society: current application and future trends** Dr Graham Carr

Each theme will be introduced by Plenary sessions, followed by 10 concurrent technical sessions (nominally two at the time per Theme) for three days (Monday, Wednesday, and Thursday) – see preliminary schedule on p. 9. This equates to 560 speaking slots, or nominally 56 per Theme.

The over 60 subthemes (Symposia) proposed for the Convention are described in detail on the AGCC 2018 website [www.agcc.org.au/themes-symposia](http://www.agcc.org.au/themes-symposia). New symposia introduced after the release of the Second Circular are highlighted in the table below. Confirmed Plenary and Keynote Speakers are announced in the following section of the Circular, and full biographies can be found at [www.agcc.org.au/speakers](http://www.agcc.org.au/speakers).

All symposia in the Scientific Program are expected to include both oral and poster presentations. Individuals will only be permitted to deliver one oral presentation at the convention, but they may co-author multiple oral presentations and may give multiple poster presentations. Invited keynote speakers may deliver a second oral paper in the symposia program.

Oral presentations will be 15 minutes including question time and discussion. Theme Convenors will have the flexibility to assign longer timeslots for symposia Keynote Speakers. Poster papers will be accorded a prominent place in the Convention program: poster abstracts will be published in the Convention Program, and posters will be displayed in the central area of the GeoEXPO, right next to the GeoHUB Catering and Networking Café.

Posters must be designed in portrait orientation and can be up to A0 in size (1189mm height x 841mm width)

### Call for abstracts

Abstracts for the AGCC 2018 scientific program can be submitted via the **AGCC 2018 submission portal**.

The online submission of abstracts will close on **16 June 2018**.

Abstracts are limited to 250 words. Tables, figures, references and other graphics cannot be accepted in abstracts. Abstracts must be submitted by the presenting author (oral and poster). All abstracts will be reviewed by the appropriate symposia convenors and presenters will be notified of acceptance by 28 July 2018.

Abstract submission closes on 16 June 2018. The number and range of abstracts submitted will be taken into account in designing the final program and timetable for the AGCC 2018. Any questions or requests for further information should be addressed to the theme convenors and symposia champions, whose email addresses are listed on the **AGCC 2018 website**.

The AGCC 2018 will publish standard abstracts electronically at the time of the event, but will not publish papers presented. Symposium Convenors and groups wishing to publish papers presented at the Convention are free to enter independently into agreements with publishing houses.

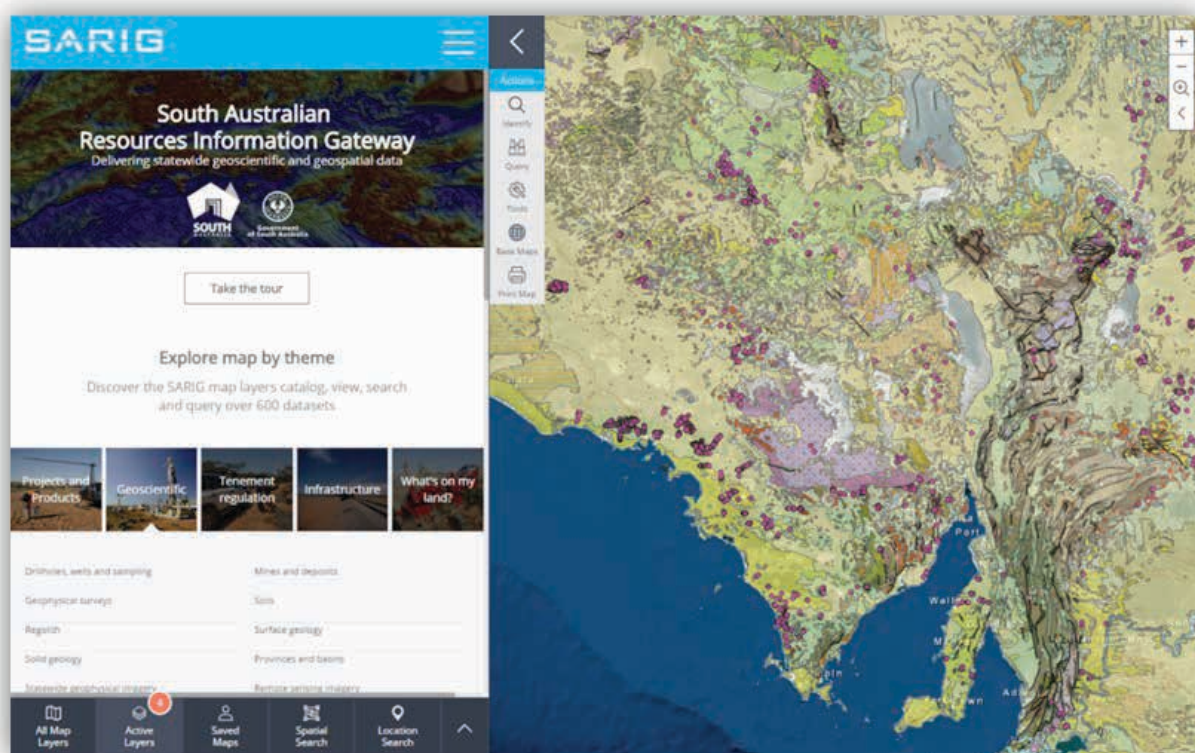
The official language of the Convention is English and translation services will not be provided.

### Publications

AGCC 2018 will publish standard abstracts electronically at the time of the event, but will not publish papers presented. Symposium convenors and groups wishing to publish papers presented at the Convention are free to enter independently into agreements with publishing houses.

1. UNDERSTANDING THE EARTH		Professor Dietmar Müller dietmar.muller@sydney.edu.au
Sub-THEME	DESCRIPTION	CHAMPIONS
Only new subthemes are listed below; please visit the AGCC 2018 <b>website</b> to check the full list of proposed symposia		
<b>1.1 Deep Earth systems and planetary fluxes</b>		
<b>NEW</b> 1.1.5 <i>Imaging Australia in 3D: 21 years of ANSIR and beyond</i>	For over two decades, the geoscience community in Australia has acquired seismic, magnetotelluric and other geophysical data that have slowly revealed the Australian plate in 3D. We invite contributions that present images of whole or part of the Australian Plate, at sub-prospect to global scale. We also invite contributions that outline technique developments, current and future initiatives in elucidating the structure and evolution of our continent by any means. 2018 sees the 21st anniversary of the shared instrumentation of ANSIR and related infrastructure, and we also invite historical reviews and futuristic perspectives about what Earth imaging might contribute in understanding the deep Earth.	Anya Reading (UTAS) <b>anya.reading@utas.edu.au</b>  Karol Czarnota (Geoscience Australia)  Kate Robertson (GSSA)  Yingjie Yang (Macquarie)
<b>NEW</b> 1.1.6 <i>Proterozoic Tectonics</i>	This session will cover tectonic evolution of Australia and postulated connected terranes, and the tectonic controls on the evolution of greater Earth systems through the Proterozoic. Papers covering all aspects of the geological history through this time and including, but not restricted to, geophysics, geochemistry, geochronology, metamorphic petrology and structural geology are invited to contribute to this session.	Prof. Peter Betts (Monash University) <b>peter.betts@monash.edu</b>  Prof. Alan Collins (University of Adelaide)  Dr Caroline Tiddy (University of South Australia)
<b>NEW</b> 1.1.7 <i>Advances in Volcanology and Igneous Geochemistry</i>	Understanding magma generation, conduit and volcanic eruption processes, as well as deposit characteristics is fundamental in understanding crustal evolution and magmatic resource geology. In this symposium presentations are invited addressing these themes, based on research in either modern or ancient volcanic settings. Presentations summarising field studies, geochemical and modelling research that provide understanding of physical and chemical dynamics in magmatic terrains are invited.	Ray Cas (Monash University) <b>ray.cas@monash.edu</b>  Heather Handley (Macquarie University)
Sub-THEME	DESCRIPTION	CHAMPIONS
<b>1.3 Marine geoscience - the evolving oceans</b>		
<b>NEW</b> 1.3.2 <i>Coastal, Shelf and Deep Water Seabed Environments</i>	We are still to discover much about our marine environment that stretches from the coast to the abyss. This session will highlight how geoscience is playing a leading role in revealing the key environmental features and processes that form and shape the seabed of our marine realm. A wide range of approaches are being employed across this huge span of environmental conditions, from shallow- water acoustic, satellite and laser mapping and modelling of seabed geomorphology and habitats through to deep water surveys utilising Automated Underwater Vehicles and low-frequency acoustics. This session welcomes contributions from this broad range of marine geoscience activities, including new insights from high-resolution seabed mapping, sub-seabed investigations, studies of the geomorphic imprint of Quaternary sea-level change, and of active sedimentary processes.	Brendan Brooke (Geoscience Australia) <b>brendan.brooke@ga.gov.au</b>  Scott Nichol (Geoscience Australia)

2. LIFE ON EARTH – ORIGINS AND DIVERSITY		Professor Simon George simon.george@mq.edu.au
Sub-THEME	DESCRIPTION	CHAMPIONS
There are no new subthemes for this theme; please visit the AGCC 2018 <b>website</b> to check the full list of proposed symposia		
3. RESOURCES – DISCOVERY, DEVELOPMENT, USE AND SUSTAINABILITY		Dr Kevin Cassidy barerock@iinet.net.au
Sub-THEME	DESCRIPTION	CHAMPIONS
There are no new subthemes for this theme; please visit the AGCC 2018 <b>website</b> to check the full list of proposed symposia		
4. APPLIED GEOSCIENCES IN THE 21st CENTURY – INNOVATION, TECHNOLOGY AND THE FUTURE		Chris Woodfull cwoodfull@srk.com.au
Sub-THEME	DESCRIPTION	CHAMPIONS
Only new subthemes are listed below; please visit the AGCC 2018 <b>website</b> to check the full list of proposed symposia		
<b>NEW</b> <b>4.4.3</b> <i>Geoscience data delivery – current methods and future plans</i>	<p>This symposium is intended as an opportunity for State and Territory Geological Surveys, CSIRO, research organisations, and anyone else to demonstrate how their data is currently made more widely available, why those methods were chosen, what limitations there are to current practices, and what new ideas for data delivery might be under discussion (if they are willing to share).</p> <p>While the Convenor's background and work focus is in stratigraphy and fundamental geological data, this session is intended to allow the inclusion of discussion on all kinds of data relevant to the collaborative geoscience projects undertaken in the 21st century.</p>	<p>Cathy Brown (Geoscience Australia)  <b>cathy.brown@ga.gov.au</b></p>



SARIG, the South Australian Resources Information Gateway, is South Australia's premier digital platform for geoscience and resources data delivery. Image courtesy Geological Survey of South Australia (GSSA).



#### 4. APPLIED GEOSCIENCES IN THE 21st CENTURY – INNOVATION, TECHNOLOGY AND THE FUTURE

Chris Woodfull  
cwoodfull@srk.com.au

##### Sub-THEME

##### DESCRIPTION

##### CHAMPIONS

Only new subthemes are listed below; please visit the AGCC 2018 **website** to check the full list of proposed symposia

##### NEW

##### 4.7 The National Virtual Core Library

The characterisation of mineral assemblages is amongst the first steps for describing and analysing mineral systems. The identification of lithologies and alteration footprints usually starts with time consuming core logging next to drill rigs or in drill core sheds across the world. Notwithstanding the geological expertise, the results of visual core logging can be very subjective and are difficult to use for decision making, let alone in a quantitative way for resource characterisation. Numerous drill core sensing technologies have been developed over the past decade that provide objective drill core information.

The Symposium is organized by the National Virtual Core Library (NVCL), which is part of AuScope's national earth science infrastructure program (<http://www.auscope.org.au/nvcl>). The prime objective of the NVCL has been to provide access, via the internet, to the vast resource of geological information from the upper 1 – 2km of our Earth's crust that is stored in drill core libraries and core sheds across Australia. The NVCL has driven the development of hyperspectral drill core sensing technologies and delivery of the drill core data to the research community and resources sector via AuScope's data infrastructure and Discovery Portal (<http://www.auscope.org.au/auscope-grid/>), and comprises close to 1000km of hyperspectral drill core data from various geological environments and mineral deposit types across the Australian continent with continuing acquisition.

This Symposium invites contributions that

- (1) demonstrate the integration of geochemical, petrophysical and mineralogical drill core data,
- (2) further routine textural analysis, and
- (3) Showcase the latest developments of new drill core sensing technologies.

Georgina Gordon  
(Geological Survey of South Australia)  
[georgina.gordon@sa.gov.au](mailto:georgina.gordon@sa.gov.au)  
Carsten Laukamp (CSIRO)



Santos' operations in the Cooper Basin. Photograph courtesy of Santos Ltd.

5. BEYOND THE ROCKS – GEOSCIENCE IN OUR SOCIETY: CURRENT APPLICATION AND FUTURE TRENDS		Dr Graham Carr Graham.Carr@csiro.au
Sub-THEME	DESCRIPTION	CHAMPIONS
Only new subthemes are listed below; please visit the AGCC 2018 <b>website</b> to check the full list of proposed symposia		
<b>NEW</b> <b>5.5 Planning the Future of Geoscience</b>	This session provides an opportunity for geoscientists and others to further develop the vision recently released in the decadal plan for geoscience, developed by the Academy of Science National Committee for Earth Science (NCES). This document “Our Planet, Australia’s Future: A decade of transition in geoscience” highlights the opportunities and challenges identified for the next decade and beyond. A Q&A session will be featured to debate relevant issues and facilitate discussion about implementation strategies.	Sue O’Reilly (Macquarie University) <a href="mailto:sue.oreilly@mq.edu.au">sue.oreilly@mq.edu.au</a>
<b>NEW</b> <b>5.6 Diversity in the Geosciences</b>	Similar to many science, technology, engineering, and mathematics (STEM) disciplines, the Geosciences suffer from a lack of racial, ethnic, gender and many other types of diversity, particularly at doctoral levels and within academia. Unfortunately, the Geosciences have the lowest diversity of all the STEM fields at all levels of higher education (National Center for Science and Engineering Statistics, 2015). The Australian Geoscience Council is committed to Diversity in Geoscience. We encourage all individuals and organisations to make change to increase diversity in their workplace. This session is for all things diversity – statistics on diversity within your organisation or sub-discipline, personal stories or biographies, and beyond!	Marina Costelloe (Geoscience Australia) <a href="mailto:marina.costelloe@ga.gov.au">marina.costelloe@ga.gov.au</a>



ESWA activity: Sandpit mining at Pearsall Primary School, Perth. Image courtesy of Jo Watkins, Earth Science Western Australia.



## PLENARY SPEAKERS

The AGCC 2018 Scientific Program will feature Plenary sessions in the Main Hall of the Adelaide Convention Centre, in which distinguished speakers will give presentations on major contemporary topics in the Geosciences. These plenary topics are closely aligned with particular Themes and Symposia in the scientific program, and are intended to promote discussion and debate within the symposia.

### Theme 1 – Understanding the Earth

#### Matthew Huber (USA)



Dr Matthew Huber is a Professor for the Department of Earth, Atmospheric, and Planetary Sciences at Purdue University (West Lafayette, Indiana, USA). He has a PhD from the University of California Santa Cruz. Matthew and his group — the Climate Dynamics Prediction Lab — work on developing a better understanding of and ability to predict the dynamics of the climate system with an emphasis on investigating past warm climates as a window into future behaviour. Much of this work focuses on atmosphere-ocean dynamics with an emphasis on hot conditions, e.g. the tropics. Always in his mind is the implications of changing climates for life and humanity. At present, much of his focus is on reconstructing the dynamic range of past tropical climates and inferring thermal limits of terrestrial and marine organisms as they apply to the future.

### Theme 2 – Life on Earth – origins and diversity

#### Richard Twitchett (Great Britain)



Professor Richard Twitchett is Research Leader in the Department of Earth Sciences at the Natural History Museum in London. With a broad background in geology, biology and paleoenvironmental analysis, Richard is a paleoecologist whose multidisciplinary research integrates empirical data collected from rocks and fossils in the field and from museum collections. Richard's research is focussed on understanding how marine animals and ecosystems responded to the major biological and environmental changes of the past, particularly those associated with global warming and the mass extinction events of the Phanerozoic. He is best known for his studies of post-Permian recovery and body size evolution.



*Characteristic Ediacaran fossil Dickinsonia costata (cast), Rawnsley Quartzite, central Flinders Ranges. Image courtesy of Peter Haines, Geological Survey of Western Australia.*



## Theme 4 – Applied Geosciences in the 21st Century – innovation, technology and the future

### Sue Keay (Australia)



Recognised as Superstar of STEM by Science & Technology Australia, Sue is a trained scientist with highly developed business skills. She runs the world's first robotic vision research centre — the **Australian Centre for Robotic Vision**, headquartered at QUT (Queensland University of Technology), has more than 200 researchers distributed across Australian and overseas research institutions. By creating robots that see and understand their environment, we will finally reach the tipping point where robots can assume capabilities that have previously only been imagined. With a PhD in Earth Sciences, Sue escaped the lab to move into research management and commercialization, where she has demonstrated national leadership. With interests in entrepreneurship and disruptive technologies, she is a judge for the James Dyson Awards, a graduate of the Australian Institute of Company Directors and serves on the Board of the CRC for Optimising Resource Extraction and the Advisory Board of Brisbane.

Her proposed topic is *Advances in Robotics and Computer Vision and what this means for the Australian Resources Sector*.

### Michel Jaboyedoff (Switzerland)



Professor Michel Jaboyedoff is a geologist with a degree in physics and a PhD degree in clay mineralogy. During his PhD, he started research on natural hazards, especially rockfalls, a career that culminated with the 2017 Disaster Prevention Research Institute (DPRI) Award. A full professor at the University of Lausanne since 2005, his research focuses on natural hazards and integrated risk analysis. He is or was involved in several risk management projects around the world (Argentina, Canada, Nepal, Norway, Switzerland), and was part of several European Projects FP7 (Mountain Risks, Safeland, CHANGES) and the Swiss National Science Foundation. Many of his studies are related to remote sensing technique such as Lidar, and his research focuses on the development of software for hazard and risk analysis, especially related to rockfall hazard rating in order to improve rockfall failure hazard assessment. He is the president of the Quanterra foundation and co-founder of a spin-off of the University of Lausanne (terr@num).



Maptek manufactures long range, lightweight 3D laser scanners for fast, accurate mine survey. A visit to the facility is offered as a field trip (FT12) during the Convention. Image courtesy of Maptek.



## KEYNOTE SPEAKERS

Confirmed Keynote Speakers for the AGCC 2018 themes and subthemes are introduced below. Affiliation and biographies can be viewed at [www.agcc.org.au/speakers](http://www.agcc.org.au/speakers).

### Theme 1: Understanding the Earth

The Australian Geoscience Convention is pleased to announce that the Mawson Medallist for 2018, Professor Matt King, will be presenting the Mawson Medal Lecture as a Keynote address at the Convention in session 1.4.1 – Earth's Climate - past, present and future.



**Dr Andrew Valentine**

Theme 1.1 – Deep Earth systems  
and planetary fluxes



**Dr Tim Johnson**

Theme 1.1 – Deep Earth systems  
and planetary fluxes



**Dr Nicolas Flament**

Theme 1.1.1 – Decoding Earth's  
supercycles: from the core  
to the crust



**Prof Damian Nance**

Theme 1.1.1 – Decoding Earth's  
supercycles: from the core  
to the crust



**Dr Andy Calvert**

Theme 1.1.4 – Crustal evolution  
of Archean Cratons



**Dr Rebecca Carey**

Theme 1.1.7 – Advances  
in volcanology and igneous  
geochemistry



**Prof Ken McClay**

Theme 1.2 – Sedimentary basins



**Dr Lloyd White**

Theme 1.3 – Marine Geoscience  
- the evolving oceans



**Prof Neville Exon**

Theme 1.3 – Marine Geoscience  
- the evolving oceans



**Dr Carol Cotterill**

Theme 1.3 – Marine Geoscience  
- the evolving oceans



**Prof Matt King**

Mawson Medal Lecture  
Theme 1.4.1 – Earth's climate -  
past, present and future



**Galen Halverson**

1.4.1 Earth's climate - past,  
present and future



**Dr Penny King**

Theme 1.5 The solar system and  
beyond

## Theme 2: Life on Earth – origins and diversity



**Prof Joanna Morgan**  
Theme 2.3 – Mass extinctions



**Prof Michael Archer**  
Theme 2.4 – Ancient and historical record of life in Australia

## Theme 3: Resources – discovery, development, use and sustainability



**Mr Jon Hronsky**  
Theme 3.1.1 – Effective exploration and discovery under cover



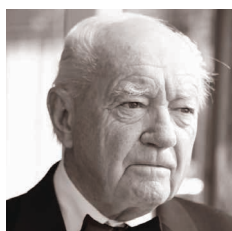
**Mr Warren Potma**  
Theme 3.1.2 – Making better exploration decisions through an integrated geoscience approach



**Prof David Cooke**  
Theme 3.1.3 – Understanding mineral systems for exploration – from craton to micron scale



**Dr Graham Begg**  
Theme 3.1.4 – Tectonic and earth evolution controls on the spatial and temporal localisation of ore deposits



**Prof Bruce Hobbs**  
Theme 3.1.6 – New frontiers in ore system research



**Prof Peter McCabe**  
Theme 3.2.1 – Future energy mix



**Prof Joan Esterle**  
Theme 3.2.2 – Energy from coal



**Dr Linda Stalker**  
Theme 3.2.6 – Using geoscience to address social licence concerns for energy projects



**Prof Craig Simmons FTSE**  
Theme 3.3.1 – Groundwater challenges and opportunities



**Dr Ken Lawrie**  
Theme 3.3.2 – New groundwater technologies and approaches



**Dr Narelle Neumann**  
Theme 3.3.3 – Pre-competitive geoscience data and information to understand groundwater systems



**Dr David Post**  
Theme 3.3.4 – Evaluating the potential impacts to groundwater from resource development



**Theme 3: Resources – discovery, development, use and sustainability (cont.)**



**Mr John Kilroe**

Theme 3.4.1 – Resource investment and management



**Dr Gavin Mudd**

Theme 3.4.2 – Trends in resource exploration and development



**Ms Barbara Pribyl**

Theme 3.4.3 – Resources definition



**Mr Steve Hunt**

Theme 3.4.3 – Resources definition



**Peter Baker**

Theme 3.4.3 – Resources definition



**Dr Andrew Heap**

Theme 3.5 – Technology integration



*Sand mining at the Clinton Sand Quarry, Yorke Peninsula. Image courtesy of Carmen Krapf, GSSA.*

#### Theme 4: Applied Geosciences in the 21st Century – innovation, technology and the future



**Dr Marc Elmouttie**

Theme 4.1 – Geohazards, risk and mitigation



**A/Prof Jinsong Huang**

Theme 4.1 – Geohazards, risk and mitigation



**Ms Jill Terry**

Theme 4.2 – Mining geology and geometallurgy



**Dr Kathy Ehrig**

Theme 4.2 – Mining geology and geometallurgy



**Dr Phil Flentje**

Theme 4.3 – Engineering geology – from underpinning our civil infrastructure to mine closure risk and mitigation



**Dr David Och**

Theme 4.3 – Engineering geology – from underpinning our civil infrastructure to mine closure risk and mitigation



**Mr Andrew Bailey**

Theme 4.5 – Exploration technology: future trends and adoption challenges



**Prof Peter Dowd**

Theme 4.6 – Mathematics, modelling, AI, robotics and machine learning applied to the acquisition and interpretation of large or complex geoscience data sets



**Dr Penny Stewart**

Theme 4.6 – Mathematics, modelling, AI, robotics and machine learning applied to the acquisition and interpretation of large or complex geoscience data sets



**Prof Dietmar Müller**

Theme 4.6 – Mathematics, modelling, AI, robotics and machine learning applied to the acquisition and interpretation of large or complex geoscience data sets

#### Theme 5: Beyond the rocks – Geoscience in our society: current application and future trends



**Prof Emeritus**

**Dr Ibrahim Komoo**

Theme 5.1 – Geology in Society: geotourism and geoheritage



### THREE-MINUTE RAPID FIRE PRESENTATIONS – A PROGRAM FOR YOUNG GEOSCIENTISTS AT AGCC 2018

**This initiative is designed to enable a large number of young geoscientists, across all fields, to participate in a test of their abilities to rapidly and effectively communicate their science to a diverse audience.**

**PRESENTATIONS:** The model is derived from the very popular and ultra-competitive three-minute thesis competitions that operate at university, national and international levels. Each speaker is allowed three minutes and three slides to communicate the core of their research or work in geology, geochemistry, geophysics, hydrogeology, engineering and related fields. One short question (10 seconds) and one short response (20 seconds) will be permitted. Total time allocated to each presenter is 4 minutes, which includes a minimal introduction and speaker changeover.

**PRIZES:** Sponsorship is anticipated to allow the award of a first prize sufficient to fund attendance at an overseas conference (i.e. ~AUS\$5,000). We anticipate one prize in the Current MSc/PhD category (defined as students still holding student/candidature status at a tertiary institution at the time of the Convention) and another prize in the Early Career Geoscientist category (defined on p. 6). There may be runner-up prizes as well, depending on the number of participants.

**CRITERIA FOR JUDGING WINNERS:** Presentations will be assessed on three key parameters:

- i. Has the speaker clearly enunciated the scientific question or problem investigated?
- ii. Was the research undertaken novel or challenging, and were the key results clearly outlined?
- iii. Quality and effectiveness of the 3 slides presented

**ELIGIBILITY:** Registered AGCC 2018 delegates who are current members of an AGC Member Organisation, undertaking a research degree or who are early career practitioners (as defined on p. 6). This does not preclude or dissuade students also delivering poster papers or full papers in the technical session.

**APPLICATION TO PARTICIPATE:** Interested persons are invited to submit their contact details by email together with a presentation title, and a single sentence description of the subject matter (about 10–15 words). **You do not need to submit an abstract in the AGCC 2018 to participate.**

Register your interest/participation with Verity Normington ([verity.normington@nt.gov.au](mailto:verity.normington@nt.gov.au)) – remember to insert “AGCC Rapid Fire – Your Name” in the email subject.

**Applications close 30th August.**

### TEACHERS' ENGAGEMENT AT AGCC 2018

Events and activities at AGCC 2018 will offer Science teachers the opportunity to learn more about various aspects of the Geosciences and how to communicate this fascinating — but often intimidating — subject. Networking with other teachers and national and international leaders in Geoscience communication will offer an unprecedented opportunity to share experiences and take away teaching strategies.

**Santos, a major supporter of AGCC 2018, is sponsoring a program of engagement between Professor Iain Stewart and a group of High School Science Educators at a session during the Convention. The estimated duration of this session is two (2) hours. After the session the Educators will be granted access to the AGCC 2018 GeoEXPO.**

### CHILD-MINDING FACILITIES AT AGCC 2018

We want to make AGCC 2018 as accessible as possible to all Geoscientists, including those with young children and who may need assistance with their care. The Steering Committee is investigating the possibility of having a child-minding facility set up at the Adelaide Convention Centre for the duration of AGCC 2018. The facility would be operated and managed by a licensed contractor and all arrangements would be made by parents with the contractor directly. It is intended to provide this facility on a cost-recovery basis.

If you are interested in this service, please complete the Expression of Interest form **here** on or before Tuesday 14 August. The decision on whether or not to provide this facility will be made based on the demand received via the Expression of Interest form by this date.

## PROFESSIONAL DEVELOPMENT WORKSHOPS

AGCC 2018 will host a number of professional development workshops over the three days immediately before the start of the Convention (Friday 12, Saturday 13 and Sunday 14 October) and the day after the main event (Friday 19 October). A list of the workshops offered is presented below (note that workshops added after the release of the Second Circular are marked NEW). Full descriptions are available on the AGCC 2018 website [www.agcc.org.au/workshops](http://www.agcc.org.au/workshops), where additional information (e.g. costing) will be added on the website as it becomes available.

Workshop registration is available to all AGCC delegates and you must register in advance. If you have **not yet registered** as an AGCC delegate, you can register for workshops when you complete your AGCC registration online. If you **have already registered** as an AGCC delegate, you will soon receive an email with instructions on how to add workshop/s to your existing registration. Most workshops have limits on the minimum and maximum number of participants, and may require attendees to bring their own laptop and/or other times. These and other details will be made available on the website as they are finalised. Workshops that do not receive sufficient participant numbers by Friday 21 September are subject to cancellation and full refunds of workshop fees will be provided. If a workshop delegate cancels their workshop registration on or before Friday 21 September, a full refund of workshop fees shall be made. No refunds are available where cancellation is notified after Friday 21 September.

Please note that abstracts for workshops, where applicable, must be submitted directly to the workshop convenor(s), and not through the AGCC 2018 online registration portal, and will not be included in the Convention proceedings. Enquiries concerning workshops should be directed to the contact person provided for each workshop in the table below.

All costs quoted are in Australian Dollars (AU\$) and include 10% GST.

Three different rates are offered for:

1. AGC Member Organisation Members
2. Non-members
3. Student/Concessional (Unemployed, Retired, Early Career Geoscientist). Please note that registrations numbers for this category are limited.



*The Project LIVE Laboratory at the University of South Australia is designed to display immersive digital content such as virtual field trips – the lab can be visited as part of WK25. Image courtesy of Tom Raimondo.*

PRE-CONVENTION WORKSHOPS		
WORKSHOP TITLE	PRESENTER	COST
<b>WK 1 - Geoscientist to data scientist</b> Saturday 13th - Sunday 14th October 8am - 5pm	Dr Sophie Hancock CORE innovation hub <b>sophie@corehub.com.au</b>	AU\$1,800 Members AU\$2,000 Non Members AU\$800 Student/Concessional
<b>WK 2 - Interpretation of aeromagnetic data</b> Saturday 13th - Sunday 14th October 8.30am - 5.30pm	Dr David Isles <b>disles@redgatevista.com.au</b>	AU\$1,056 Members AU\$1,250 Non Members AU\$440 Student/Concessional
<b>WK 3 - Leapfrog 3D modelling</b> Saturday 13th - Sunday 14th October 9am - 5pm	Dale Sims Dale Sims Consulting <b>dalesims@tpg.com.au</b>	AU\$1,100 Members AU\$1,300 Non Members AU\$220 Student/Concessional
<b>WK 4 - Geophysical inversion to estimate cover-thickness: new approaches – new codes</b> Saturday 13th - Sunday 14th October 9am - 4pm	Dr Karol Czarnota Geoscience Australia <b>karol.czarnota@ga.gov.au</b>	TBC
<b>WK 5 - Principles of mining grade control</b> Saturday 13th - Sunday 14th October 9am - 4pm	Dr Bill Shaw Ore Control <b>bill.shaw@orecontrol.com</b>	AU\$1,600 Members AU\$1,800 Non Members AU\$800 Student/Concessional
<b>WK 6 - Surface processes modelling – Badlands</b> Saturday 13th October 9am - 4pm	Tristan Salles, Xuesong Ding, Sara Moron-Polanco University of Sydney <b>tristan.salles@sydney.edu.au</b>	TBC
<b>WK 7 - Introduction to numerical geodynamic modelling using Underworld</b> Sunday 14th October TBA	Romain Beucher and Julian Giordani University of Melbourne <b>romain.beucher@unimelb.edu.au</b>	AU\$125 Members AU\$200 Non Members AU\$100 Student/Concessional
<b>WK 9 - Geotourism for geoscientists</b> Sunday 14th October 9am - 5pm	Professor Ross Dowling OAM, and Angus M Robinson FAusIMM (CP) Geotourism Standing Committee of the Geological Society of Australia <b>angus@leisuresolutions.com.au</b>	AU\$125 Members AU\$200 Non Members AU\$100 Student/Concessional
<b>WK 10 - Hitchhiker's Guide to detrital zircon geochronology: approaches, pitfalls, ambiguities and success stories</b> Sunday 14th October 1pm – 5.30pm	Phil Gilmore (GSNSW), Kathryn Waltenberg (GA) Geological Survey of New South Wales <b>phil.gilmore@industry.nsw.gov.au</b>	TBC

PRE-CONVENTION WORKSHOPS		
WORKSHOP TITLE	PRESENTER	COST
<b>NEW</b> <b>WK 11 - South Australia deposit showcase: 3D models with core</b> Friday 12th October 9am - 5pm	Dale Sims Dale Sims Consulting <b>dalesims@tpg.com.au</b>	AU\$110 Members AU\$165 Non Members AU\$77 Student/Concessional
<b>NEW</b> <b>WK 18 - New insights into some major goldfields</b> Saturday 13th October 9am - 5pm	Professor Neil Phillips Phillipsgold P/L & University of Melbourne & Stellenbosch University (RSA) <b>neil@phillipsgold.com.au</b>	TBC
<b>NEW</b> <b>WK 19 - Portable XRF: how to collect robust a reliable pXRF data and maximise its value</b> Sunday 14th October 9am - 5pm	Dr Michael Gazley RSC Mining and Mineral Exploration <b>m.gazley@rscmme.com</b>	AU\$250 Members AU\$350 Non Members AU\$110 Student/Concessional
<b>NEW</b> <b>WK 20 - QGIS for geologists</b> Sunday 14th October 9am - 5pm	Grant Boxer <b>boxerg@inet.net.au</b>	AU\$250 Members AU\$350 Non Members AU\$110 Student/Concessional
<b>NEW</b> <b>WK 21 - Women in Earth and Environmental Sciences Australasia (WOMEESA) - Mentoring Workshop</b> Sunday 14th October 12.30pm - 5pm	Associate Professor Heather Handley WOMEESA <b>heather.handley@mq.edu.au</b>	TBC
<b>NEW</b> <b>WK 23 - Robust Appraisal Planning</b> Sunday 14th October	Adrian Sikorski Decision Frameworks <b>adriansikorski@decisionframeworks.com</b>	TBC
<b>NEW</b> <b>WK 26- Find your Voice – Present with confidence</b> Sunday 14th October 9am-4pm	Doug Knight Doug Knight Presents <b>doug@doug-knight.com</b>	\$420 Members \$520 Non members \$250 Student/Concessional



## POST-CONVENTION WORKSHOPS

WORKSHOP TITLE	PRESENTER	COST
<b>WK 12 - Using GPlates for Precambrian and Paleozoic plate reconstructions</b> Friday 19th October 9am - 5pm	Alex Young, Morgan Blades, Sheree Armistead Adelaide University and University of Wollongong <a href="mailto:ajy321@uowmail.edu.au">ajy321@uowmail.edu.au</a>	TBC
<b>WK 13 - Introduction to Python for geoscientists</b> Friday 19th October 10am - 4pm	Nathaniel Butterworth, Madhura Killedar University of Sydney <a href="mailto:nathaniel.butterworth@sydney.edu.au">nathaniel.butterworth@sydney.edu.au</a>	AU\$125 Members AU\$200 Non Members AU\$100 Student/Concessional
<b>WK 14 - Assessing and communicating geological risk to non-Geologists</b> Friday 19th October 9am -5pm	Mr Mark Berry Derisk Geomining Consultants Pty Ltd <a href="mailto:mark@deriskgeomining.com">mark@deriskgeomining.com</a>	TBC
<b>WK 15 - Social responsibility in Geoscience education</b> Friday 19th October 9am - 12.30pm	Dr Mike Katz Mineral Development Consultant Former Director Key Centre for Mines, UNSW, Sydney, Australia <a href="mailto:mikekatz320@gmail.com">mikekatz320@gmail.com</a>	AU\$110 Members AU\$160 Non Members AU\$44 Student/Concessional
<b>WK 16 - Unrealised billions: deposits hidden in legacy data</b> Friday 19th October 10am - 3pm	AGIA – Australian Geoscience Information Association Inc. <a href="mailto:president@agia.org.au">president@agia.org.au</a>	TBC
<b>WK 17 - Application of High-Resolution Seismic in mineral exploration</b> Friday 19th October 9am - 12.30pm	Mrs Libbi Kern Hiseis <a href="mailto:l.kern@hiseis.com">l.kern@hiseis.com</a>	Free Members Free Non Members Free Student/Concessional
<b>NEW</b> <b>WK 22 - Practical geological interpretation of potential field data sets and the importance of basement</b> Friday 19th October 9am - 5pm	Dr Lynn Pryer Frogtech Geoscience <a href="mailto:lpryer@frogtech.com.au">lpryer@frogtech.com.au</a>	TBC
<b>NEW</b> <b>WK 24 - 3D Modelling and machine learning for exploration</b> Friday 19th October 9am - 5pm	Ben Jupp and Antoine Cate SRK Consulting <a href="mailto:bjupp@srk.com.au">bjupp@srk.com.au</a>	TBC

## POST-CONVENTION WORKSHOPS

WORKSHOP TITLE	PRESENTER	COST
<b>NEW</b> <b>WK 25 - Project LIVE: Learning through Immersive Virtual Environments</b> Friday 19th October 9am - 1pm	Associate Professor Tom Raimondo, UniSA AUGEN <b>tom.raimondo@unisa.edu.au</b>	TBC

To read the full description of each workshop, please visit [www.agcc.org.au/workshops](http://www.agcc.org.au/workshops).

## FIELD TRIPS

AGCC 2018 is an ideal opportunity for delegates to explore the fascinating geology of South Australia and beyond. A range of pre-, syn- and post-Convention field trips will cover different aspects of the Geosciences. A description of each tour, its duration and costs are provided in the table below, together with the minimum required number of participants for each field trip to go ahead.

Please note the following:

- All field trips will operate with the required minimum number of people and on designated dates only
- Full pre-payment in advance is required
- As the availability and schedule of the suppliers cannot be guaranteed, the organisers reserve the right to change the proposed list

### Important information about Field Trips

- Bookings for field trips including accommodation close on **14 August 2018**
- Bookings for field trips that do not include accommodation close on **21 September 2018**
- If you have **not yet registered** as a delegate to attend AGCC 2018, you can book your field trip/s when you register on-line at [www.agcc.org.au/registration](http://www.agcc.org.au/registration)
- If you **have already registered** to attend AGCC 2018, you will soon receive an email containing a link which will enable you to add field trips to your existing registration
- Places on field trips are limited. All field trips are subject to achieving viable numbers to proceed. In the event a field trip is cancelled by the organisers, any field trip fees paid at time of cancellation will be refunded in full
- **Cancellations:** For field trips involving accommodation, cancellations received by 14 August 2018 will be refunded but will incur a cancellation fee of AU\$150 (+ 10% GST). No refunds will be available for cancellations received after 14 August 2018. No refunds are available for cancellations of field trips not involving accommodation.
- **Insurance:** All field trip participants must organise their own insurance to cover risks including (but not limited to) injury, medical, death, property and travel costs.

All costs quoted are in Australian Dollars (AU\$) and include 10% GST.

## PRE-CONVENTION FIELD TRIPS

### FT 1 - Physical volcanology of the Mesoproterozoic Gawler Range Volcanics silicic large igneous province

<b>Tour guide</b>	Adjunct Professor Jocelyn McPhie
<b>Contact email</b>	<a href="mailto:j.mcphie@utas.edu.au">j.mcphie@utas.edu.au</a>
<b>Organisation</b>	University of Tasmania, McPhie Consulting
<b>Duration</b>	5 days
<b>Dates</b>	Wednesday 10th - Sunday 14th October 2018
<b>Description</b>	The Gawler Range Volcanics (GRV) are the volcanic part of the Mesoproterozoic Gawler silicic large igneous province (SLIP), and are very well exposed in the northern Eyre Peninsula. We will complete a north-south traverse through the Gawler Range Volcanics, examining the best exposures of diverse lavas and pyroclastic facies in the lower GRV, and two of the three gigantic felsic lavas (each >500 km <sup>3</sup> ) in the upper GRV. We will also examine outcrops of the Hiltaba Suite granites which form the intrusive part of the Gawler SLIP. We will travel in 4WD vehicles and enjoy a fully catered camp each night under the stars. Most outcrops are within easy walking distance from tracks, and we will complete one or two 2-3 km-long walking traverses along ridges and creeks.
<b>Size (min-max)</b>	10 - 15
<b>Cost</b>	<b>\$1450 – includes all meals</b>

### FT 2 - Volcanoes, eruption processes and potential future hazards from the still active Newer Volcanics Province of western Victoria and South Australia — Melbourne to Adelaide road trip

<b>Tour guides</b>	Emeritus Professor Ray Cas and Dr. Jozua van Otterloo
<b>Contact email</b>	<a href="mailto:ray.cas@monash.edu">ray.cas@monash.edu</a>
<b>Organisation</b>	Monash University
<b>Duration</b>	4 days
<b>Dates</b>	Thursday 11th - Sunday 14th October 2018
<b>Description</b>	This fieldtrip will examine the geodynamics and the physical volcanology of the eruptions that produced the still active Newer Volcanics Province in western Victoria and South Australia. The tour is a road trip starting in Melbourne and concluding in Adelaide, and will include a detour to the iconic Great Ocean Road.
<b>Size (min-max)</b>	15 - 20
<b>Cost</b>	<b>\$1350 - includes single room accommodation (3 nights), and breakfast/lunch for 3 days</b>

### FT 3 - Broken Hill – key outcrops, ideas and discussion

<b>Tour guides</b>	Jared Broome, Noel Carroll and Shelley Mills
<b>Contact email</b>	<a href="mailto:jared.broome@perilya.com.au">jared.broome@perilya.com.au</a>
<b>Organisation</b>	Perilya Ltd
<b>Duration</b>	3.5 days
<b>Dates</b>	Thursday 11th - Sunday 14th October 2018
<b>Description</b>	This is a field-based review of key outcrops within the public access areas and mine leases of Broken Hill. The review will cover the stratigraphy, structure, mineralisation and mining interests of the Broken Hill Line of Lode through outcrop, hand specimens and drill core inspections. Open and diverse discussion will be encouraged with attendees being exposed to emerging ideas around this significant mineralisation system.
<b>Size (min-max)</b>	20 - 30
<b>Cost</b>	<b>\$1125 - includes single room accommodation (3 nights), and breakfast/lunch for 3 days</b>



## SYN-CONVENTION FIELD TRIPS

### FT 4 - Hallett Cove geological wake-up call

<b>Tour guides</b>	Dr Carmen Krapf and Dr Stacey McAvaney
<b>Contact email</b>	<b>carmen.krapf@sa.gov.au</b> <b>stacey.mcavaney@sa.gov.au</b>
<b>Organisation</b>	Geological Survey of South Australia
<b>Duration</b>	4 hours: 6am–10am
<b>Date</b>	Wednesday 17th October 2018
<b>Description</b>	Visit Hallett Cove Conservation Park, situated along the coastline of Adelaide's southern suburbs, and enjoy the sunrise on an early morning walk along the 2 km-long Hallett Cove Geological Trail. This geological monument preserves Neoproterozoic marine and coastal sediments of the Adelaide Geosyncline folded during the Cambro–Ordovician Delamerian Orogeny, as well as evidence of glaciation during the Permian Period, including striated glacial pavements at Black Cliff, glacial lacustrine sediments at the Sugarloaf and erratics transported from southern Fleurieu Peninsula.
<b>Size (min-max)</b>	20 - 30
<b>Cost</b>	<b>\$60, including breakfast snack</b>

### FT 5 - Tonsley Core Reference Library and Data Metallogenica

<b>Tour guides</b>	Georgina Gordon
<b>Contact email</b>	<b>georgina.gordon@sa.gov.au</b>
<b>Organisation</b>	Geological Survey of South Australia
<b>Duration</b>	1.5 hrs
<b>Dates</b>	Wednesday 17th October 2018
<b>Description</b>	Lunch-time tour of the recently opened, state-of-the-art Tonsley Core Reference Library and AMIRA International's Data Metallogenica collection.
<b>Size (max)</b>	40
<b>Cost</b>	<b>\$20 for transport</b>

### FT 6 - Footsteps of Mawson

<b>Tour guide</b>	Associate Professor Jim Jago
<b>Contact email</b>	<b>jim.jago@unisa.edu.au</b>
<b>Organisation</b>	University of South Australia
<b>Duration</b>	1.5 hrs
<b>Dates</b>	Wednesday 17th October 2018 Thursday 18th October 2018
<b>Description</b>	This walking tour visits the Mawson Gallery at the South Australian Museum and the Mawson Collection at University of Adelaide. Learn more about the significant contribution of arguably Australia's most successful and famous geologist.
<b>Size (min-max)</b>	15 - 30 each day
<b>Cost</b>	<b>Free</b>

## SYN-CONVENTION FIELD TRIPS cont.

### FT 7 - North Terrace Building Stones

<b>Tour guides</b>	Professor Barry Cooper
<b>Contact email</b>	<a href="mailto:barry.cooper@unisa.edu.au">barry.cooper@unisa.edu.au</a>
<b>Organisation</b>	University of South Australia
<b>Duration</b>	1.5 hrs
<b>Dates</b>	Wednesday 17th October 2018 Thursday 18th October 2018
<b>Description</b>	Following the recent release of the self-guided geological tour brochure ( <a href="http://www.sa.gsa.org.au/Field_Guides.html">http://www.sa.gsa.org.au/Field_Guides.html</a> ), this fieldtrip provides a great insight into a range of geology from around the world, right on the doorstep of the convention venue.
<b>Size (min-max)</b>	15 - 30 each day
<b>Cost</b>	<b>Free</b>

### **NEW** FT 12 - Maptek Technology Tour

<b>Tour guides</b>	John Stokes
<b>Contact email</b>	<a href="mailto:john.stokes@maptek.com.au">john.stokes@maptek.com.au</a>
<b>Organisation</b>	Maptek
<b>Duration</b>	2 hrs: 11.30am – 1.30pm
<b>Dates</b>	Wednesday 17th October 2018
<b>Description</b>	Visit the facility where Australia's only 3D laser scanners are produced and exported around the world. After entering the surveying equipment market in 2004, Maptek has recently released its third generation of integrated 3D laser surveying and digital imaging hardware. This world-class spatial technology is used across mining, engineering, geotechnical, geological, surveying and forensic industries to create 3D models for a wide variety of spatial and volumetric analysis tasks. Our facilities have recently expanded, producing Sentry systems for standalone stability monitoring of mining excavations. Maptek is the leading provider of innovative software, hardware and services for the global mining industry. With more than 35 years of commitment to mine technology research and development, we offer an extensive range of products backed by unparalleled customer service and support. Come behind the scenes!
<b>Size (min-max)</b>	10 - 20 each day
<b>Cost</b>	<b>\$20 for transport</b>



Mottled red clay in the towering coastal cliffs at Ardrossan, Yorke Peninsula. Image courtesy of Carmen Krapf, GSSA.

## POST-CONVENTION FIELD TRIPS

### FT 8 - Terroir of McLaren Vale

<b>Tour guides</b>	TBA
<b>Contact email</b>	TBA
<b>Organisation</b>	TBA
<b>Duration</b>	1 day
<b>Date</b>	Friday 19th October 2018
<b>Description</b>	This trip will travel to wineries in the McLaren Vale Wine Region to study aspects of the terroir of the various vineyards. We will be talking to the winemakers at each location to discuss the important contributors to terroir: geology, regolith, soil, altitude and microclimate.
<b>Size (min-max)</b>	20 - 30
<b>Cost</b>	<b>\$160, including lunch</b>

### FT 10 - Naracoorte World Heritage Caves – their geology and paleontology

<b>Tour guide</b>	Ian Lewis
<b>Contact email</b>	<a href="mailto:ian.lewis2@sa.gov.au">ian.lewis2@sa.gov.au</a>
<b>Duration</b>	2 days
<b>Dates</b>	Friday 19th - Saturday 20th October 2018
<b>Description</b>	This 2 day field trip will investigate the geology and paleontology of the World Heritage Naracoorte cave system with specialist technical tours of this speleological wonderland.
<b>Size (min-max)</b>	20 - 30
<b>Cost</b>	<b>\$495 - includes 1 night single accommodation, transfers from/to Adelaide, 1 breakfast and 2 lunches</b>

### FT 11 - Hot rocks, ice ages and the rise of complex life

<b>Tour guide</b>	Professor Jim Gehling
<b>Contact email</b>	<a href="mailto:jim.gehling@samuseum.sa.gov.au">jim.gehling@samuseum.sa.gov.au</a>
<b>Organisation</b>	South Australian Museum, University of Adelaide
<b>Duration</b>	5 days
<b>Dates</b>	Friday 19th - Tuesday 23rd October 2018
<b>Description</b>	This tour will visit world-heritage quality exposures of Ediacaran, Tonian and Cryogenian stratigraphy, as well as examining the general Arkaroola and Northern Flinders National Park geology via 4WD bus over 5 days. This tour will satisfy all geoscientific interest with a very unique and refreshing approach to this important stage in earth life development.
<b>Size (min-max)</b>	10 - 15
<b>Cost</b>	<b>TBA</b>

## BUSINESS MEETINGS

The AGCC Organising Committee invites Member Organisations and affiliated bodies, Specialist Groups and other Geoscience organisations to hold their Business meetings at the Convention, to take advantage of the synergies offered by this large event. Submissions for all Business Meetings can be made through the online system on our website. The Business Meeting coordinators require information on the venue capacity, the meeting duration and additional information, including audio-visual or catering needs. Some charges may apply, please visit the **website** for further details.

The list of special interest group meetings (below) is accurate at time of publication but is subject to change. A schedule of meetings, showing time and location for each, will be posted on the Convention's website in late August 2018. Enquiries regarding attendance at these meetings and content should be directed to the contact persons provided below.

MEETING	ORGANISER	CONTACT	AFFILIATION
Annual General Meeting	Dr Peter Kruse	archaeo.kruse@gmail.com	South Australian Museum
ANSIR Steering Committee Annual Meeting	Professor Anya Reading	anya.reading@utas.edu.au	University Of Tasmania
ASEG: 2018, an a priori model for geophysics in 2050	Mrs Marina Costelloe	marina.costelloe@ga.gov.au	Geoscience Australia & Australian Society of Exploration Geophysicists
ASEG - Members Meeting	Mrs Marina Costelloe	marina.costelloe@ga.gov.au	Geoscience Australia & Australian Society of Exploration Geophysicists
Australian Stratigraphy Commission	Ms Catherine Brown	cathy.brown@ga.gov.au	Geoscience Australia
Earth Science History Group business meeting	Mr Ian Withnall	iwwithnall@optusnet.com.au	Earth Science History Group (Specialist Group Within GSA)
Review of a National Geopark Assessment Process – Co-sponsored by Geoscience Australia and the Geological Society of Australia	Mr Angus M Robinson	angus@leisuresolutions.com.au	Leisure Solutions®
Sedimentology Special Interest Group meeting	Dr Kathryn Amos	kathryn.amos@adelaide.edu.au	University Of Adelaide & Geological Society of Australia
Women in Earth Science	Mrs Marina Costelloe	marina.costelloe@ga.gov.au	Geoscience Australia



Meeting room at the Adelaide Convention Centre. Image courtesy of ACC.



## SOCIAL PROGRAM

AGCC 2018 will offer many networking and socializing opportunities for delegates.

A **Welcome Reception** will kick off the Convention plenary program on Sunday 14 October. At the closing of each day (Monday to Thursday), drinks will be available in the GeoHUB, where delegates will be able to view posters, visit stands in the GeoEXPO, and network.

A **Convention Dinner** is scheduled for Wednesday 17 October, at which the National Geoscience Champion Award will be presented (note that this is not included in the registrations fee). AGC Member Organisations and other groups are encouraged to arrange specific events on other nights.

Networking and social events are being planned or considered to engage with **early career and young geoscientists as well as Geoscience students**, such as a networking gathering (currently planned for Monday night, 15 October) and a quiz night (Tuesday 16 October). A booth in the GeoEXPO will be the focal point to promote the participation of these groups both at the Convention and in the Geosciences at large.

Diversity in Geoscience — be it by gender, cultural background, disability, etc. — will be actively promoted at AGCC 2018 in a dedicated symposia and via several events (e.g. **Diversity Lunch**).

More details on the AGCC 2018 social program will be announced in the Fourth Circular (August 2018), on the Convention website, and through the AGCC 2018 social media.

## SPONSORSHIP OPPORTUNITIES

**AGCC 2018 is delighted to acknowledge the support of our Patron Sponsor Geoscience Australia and our Major Sponsor Santos Ltd.**

Sponsorship packages are still available and can be tailored to your company needs, to maximise the return on your investment and your level of exposure. To download the Partnership Opportunities document, please click [here](#). New sponsorship options have been developed — contact Jess Tuffley at [jess@ccm.com.au](mailto:jess@ccm.com.au) to learn of these moderate-cost opportunities to engage with AGCC 2018.

Sponsorship of AGCC 2018 provides an ideal opportunity to showcase your company or organisation's involvement in the Geoscience sector and highlight your achievements, specific interests and service capabilities.

Sponsors of AGCC 2018 can expect to:

- Raise or enhance their profile across the geological and resources sectors throughout Australia and the Asia Pacific Region
- Create direct links to leaders throughout the geological, exploration and resources sectors
- Promote to national and international organisations, most notably from Asia Pacific nations
- Achieve exposure to consumers of geological, exploration, mining and energy products and technical services.

AGCC 2018 welcomes discussion about any additional activities or mechanisms which your organisation would prefer to demonstrate your support.

## GeoEXPO OPEN — BE SEEN AT THE AGCC 2018!

Don't miss the opportunity to secure one of the over 80 booths available in the GeoEXPO for the duration of the Convention. Positioned in Hall H at the Adelaide Convention Centre, the GeoEXPO will offer companies and organisations the opportunity to showcase products and services of interest to the greater Geoscience community. It will feature a large central catering area, the GeoHUB, with refreshments, device charging facilities, casual seating, information providers and the poster display area.

To view the floor plan, showing the locations of the available booths, costing table and to book immediately, please click [here](#).

**NEARLY HALF OF THE BOOTHS HAVE ALREADY BEEN COMMITTED.**

The list of sold booths below gives an idea of how the GeoEXPO is shaping up.

STAND	ORGANISATION	STAND	ORGANISATION
11	AAG	16	GSA
10	AGC	48	HiSeis
12	AGIA	17	IAH
4	AGS - Australian Geomechanics Society	1	Intrepid Geophysics
13	AIG	2	Kinematics Inc.
32	Anzic	51	Leica Microsystems
14	ASEG	40	MAPCIS Research
3	Auscope Limited	18	PESA
15	AusIMM	49	Prospectors Supplies Pty Ltd
60	Flinders Ranges World Heritage Nomination	9	Sandvik Mining And Rock Technology
33	Geological Survey of Queensland	68-73	Santos Limited - Major Sponsor
74-79	Geoscience Australia - Patron Sponsor	7	SRK Consulting
35	Geosensor	21	Velseis Pty Ltd
47	Gnomic Exploration Services		

The AGCC 2018 Organising Committee has adopted an Exhibitor Loyalty Plan, effective as of AGCC 2022, for companies whose business operations entail regular attendance at successive Geoscience conventions. The program is essentially based on a points system whereby previous exhibitors and convention sponsors get higher priority than new exhibitors. The program is described **here**.

For all sponsor and exhibition enquiries please contact Jess Tuffley at CCM (Convention Secretariat)

E: [sponsor@ccm.com.au](mailto:sponsor@ccm.com.au)

T: +61 7 3368 2644



*Helicopter surface geochemical survey in the Coompana region on the Nullarbor plain. Image courtesy of Carmen Krapf, GSSA.*

## VOLUNTEER PROGRAM

Genna McDonagh is coordinating the volunteer programs, to provide coordination and opportunities for innovative ways to connect with the Convention. These programs will ensure that we address broad social themes that are important now to all professionals in academia, industry, consulting and government. If you are passionate about diversity, representation, networking, STEM or just making a difference, please email her at [genna.mcdonagh@gmail.com](mailto:genna.mcdonagh@gmail.com).

AGCC 2018 will include a volunteer program designed to:

- support the organisers and delegates before and during the convention
- facilitate participation by students and retirees involved in the Geosciences
- provide exposure and networking opportunities to students

A call for expressions of interest to volunteer will be made in August 2018 on the **AGCC 2018 website** and via Social Media, followed by an invitation to apply for registration as a volunteer. This will be for students currently registered for Geoscience and related courses at educational institutions, and for retired Geoscience practitioners.

At that time, further information will be provided regarding:

- full requirements to qualify
- details of the program/schedule
- the tasks, duties and rules of conduct
- details of participation in meetings and seminars
- working conditions and benefits
- training requirements

## SOCIAL MEDIA PROGRAM

AGCC 2018 makes use of all mainstream social media platforms:



LinkedIn



Facebook



Twitter



Instagram

You are encouraged to follow our social media platforms and join the conversations by using **#AGCC2018ADELAIDE**.



*The Moon plain east of Coober Pedy represents the landsurface extending across the weathered Mesozoic sediments that cover the highly mineral prospective eastern margins of the Gawler Craton. Image courtesy of Steve Hill, GSSA.*

## AGCC 2018 PARTNERS

The legal entity responsible for AGCC 2018 is the Australian Geoscience Council Inc. (AGC), the Council of Earth Science Societies in Australia and the peak body for Geoscience. It represents eight major Australian Geoscientific organisations with a total membership exceeding 8,000 individuals:

- Association of Applied Geochemists
- Australian Geoscience Information Association
- Australian Institute of Geoscientists
- Australasian Institute of Mining and Metallurgy
- International Association of Hydrogeologists Australia
- Australian Society of Exploration Geophysicists
- Geological Society of Australia
- Petroleum Exploration Society of Australia

All AGC Member Organisations are involved in the organisation of the AGCC 2018, and have invested in underwriting the costs of this event.

Carillon Conference Management has been appointed as the Convention Secretariat for AGCC 2018. Please direct all enquiries to:

Carillon Conference Management [admin@ccm.com.au](mailto:admin@ccm.com.au)

T: +61 7 3368 2644

PO Box 177

Red Hill QLD 4059 Australia

## GENERAL INFORMATION

### Visas

Unless you are a citizen of Australia or New Zealand, you will need to apply for and obtain a visa prior to your journey to Australia.

For full information on Australian visas, please visit the Australian Government Department of Immigration and Border Protection website:

[www.border.gov.au](http://www.border.gov.au)

The Convention will provide a letter of invitation for visa purposes to delegates who have paid the full registration fee and are from those countries that need an invitation letter to enter Australia.

### Accommodation

AGCC 2018 has negotiated preferential hotel rates for convention delegates/exhibitors – all bookings have to be done via the Convention registration portal to qualify for these reduced rates. Visit [www.agcc.org.au/accommodation](http://www.agcc.org.au/accommodation) to find out more.

Whatever your accommodation budget, there are plenty of hotels to choose from in Adelaide and regionally in South Australia if you plan to stay on for some sightseeing.

Along the coast and throughout South Australia you will find a range of accommodation to suit single travellers, couples or families. Please visit [www.southaustralia.com/where-to-stay](http://www.southaustralia.com/where-to-stay) for more information.

### Adelaide — Host city to AGCC 2018

October is the perfect time to visit Adelaide and South Australia: from festivals to flower trails; golden fields to gardens in bloom, there are many ways to get the most out of spring in a city recognised as one of the great wine capitals of the world. Listed below are just some of Adelaide's attractions, please visit the AGCC 2018 [website](#) to find out more about the city and its offerings.



### Adelaide — the jacaranda epicentre

Each spring, South Australia is bathed in deep purple when jacarandas come into bloom. North Adelaide is the jacaranda epicentre, with many in the inner-city suburbs of Dulwich, Burnside, Mitcham, Unley and Toorak Gardens. Jacaranda hotspots include LeFevre Terrace, Fullarton Road and Wakefield Street. Equally impressive, the Adelaide Botanic Garden's breathtaking Wisteria Arbor attracts visitors from far and wide with its electric purple hues.

### Walk through fields of gold in Clare

Each spring, Clare's rolling hills transform into fields of gold with canola flowers cropping up around every corner. One of South Australia's premier wine regions, Clare is considered the Barossa's younger sibling, home to world-famous labels and set to a beautiful country backdrop. Stop for some photos, then enjoy a glass at Jim Barry Wines, Sevenhill Cellars, Mr Mick or Pikes Wines.

### See South Australia's gardens spring to life

The Adelaide Botanic Garden is one of the most beautiful in the country with 16 hectares of Australian natives, rare exotic and ornamental plants, lilies, and lush, green grass. From North Terrace, enter through a spectacular avenue of Moreton Bay fig trees, tapering off into leafy walkways and leading to the one-of-a-kind 1877-built glass Palm House. The Mount Lofty Botanic Garden boasts magnolias, camellias and rhododendrons, which are stunning when in bloom. Walking trails take you up and down the garden's seven valleys, including Fern Gully — home to one of the richest collections of ferns in Australia.

### Enjoy the Adelaide bar scene

Sip a classic Cosmopolitan at Leigh Street's architecture award-winning Pink Moon Saloon, a famed Espresso Martini overlooking the city lights at Hennessy Bar, or a bitey Negroni tucked away in the musky glow of 1950s-inspired Maybe Mae.

### Swim with tuna at Oceanic Victor

You probably already know that you can swim with sharks, sea lions and dolphins in South Australia, but how about tuna? This spring, start your engines and race our aptly named Ferraris of the Sea at Oceanic Victor in Victor Harbor. Experience life beneath the waves, swimming with the fastest fish in the sea, or settle into an underwater observatory, just off Granite Island.

### Get buzzing at Hive doors

Come-spring, hive doors all around South Australia will be buzzing. Offering a wide range of flavours from mellow Meadow to strong, bold Bush Mallee, Buzz Honey is located in the Adelaide Hills near picturesque Hahndorf. Be led through their range with free tastings, get up-close to the Live Bee Hive or take a seat and indulge in a Honey and Udder Delights Cheese experience.

Treat yourself with a visit to Clifford's Honey Farm in Kangaroo Island's Kingscote. The Clifford family run the honey farm themselves; enjoy tastings, honey drinks, biscuits, mead, cosmetics and behind-the-scenes tours. The cream of the crop is Jenny Clifford's honey ice cream which, according to locals, is the best you'll ever taste.

Visit Island Beehive to learn about Ligurian Bees, a species exclusive to Kangaroo Island. Get your sugar fix with free tastings of organic honey, shop for bee products, beeswax candles, souvenirs, health products and local arts and crafts. Guided tours operate every 30 minutes; coach, group, and after hours tours are available on request.

For more information, see also [www.southaustralia.com](http://www.southaustralia.com).



*Adelaide Convention Centre*

## VENUE — ADELAIDE CONVENTION CENTRE

The Adelaide Convention Centre is conveniently located in the heart of the city centre and nestled within the beauty of the Riverbank Precinct, surrounded by parklands and the River Torrens.

Close to the medical hub, entertainment, cultural and sport precincts, the Centre is a short walk to international and boutique hotels and accommodation. Public transport, the Adelaide Railway Station and a taxi ramp are on our doorstep. Please visit [www.adelaidecc.com.au](http://www.adelaidecc.com.au) for more information.

The international airport is just seven kilometres from the Centre, easily and economically accessible by taxi.

Address: North Terrace, Adelaide SA 5000





### AGCC 2018 CIRCULARS

General distribution of this and subsequent Circulars for the AGCC 2018 will be by email. Please, feel free to forward circulars to interested friends and colleagues. All circulars are available online via [www.agcc.org.au/circulars](http://www.agcc.org.au/circulars)

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Please, complete the 'Join the mailing list' form when you visit the [www.agcc.org.au](http://www.agcc.org.au) — you will then automatically receive updates and news.

*Seagrass ball next to a block of Cambrian Heatherdale Shale of the Stansbury Basin (Adelaide Geosyncline) at Carrickalinga, Fleurieu Peninsula. Image courtesy of Carmen Krapf, GSSA.*



*We look forward to meeting up with you in Adelaide*



**AGCC** Australian Geoscience  
Council **Convention**

**BIG ISSUES AND IDEAS IN GEOSCIENCE**

**14–18 OCTOBER 2018** | Earth Science Week

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