

STRUCTURAL GEOLOGY AND RESOURCES 2022

27th to 29th September 2022
Kalgoorlie, Western Australia



Following the highly successful symposia Structural Geology and Resources in both 2002 and 2012, the Australian Institute of Geoscientists (AIG) will again be running a three-day symposium in Kalgoorlie. The Kalgoorlie symposium will be accompanied with field trips and short courses (in Perth and Kalgoorlie).

VENUE

The symposium will be in the raked lecture theatre at the Western Mining Centre (WMC) at Curtin University School of Mines, MacDonal Street, Kalgoorlie. For the symposium we will be using the adjacent Graduate Hall for social functions, trade displays and lunches.

Kalgoorlie short courses will be at WMC centre, MacDonal Street or a nearby hotel within walking distance.

Some short courses, especially those with interests beyond hard-rock mining, will be held in Perth. Venue(s) to be announced nearer the event will be within ten kilometres of the Perth CBD.

SYMPOSIUM THEMES

- Tectonic setting of mineralisation
- Structural controls on mineralisation
- New developments including data integration
- 3D modelling
- Data collection
- Structure in resource evaluation
- Case studies structural geology and resources

WHO SHOULD ATTEND

The symposium, short courses and field trips are aimed at anyone with a graduate degree in geology interested in structure and ore deposits. Past meetings have attracted Company Directors, Senior Managers, Exploration and Mine Geologists, Academics and Students. We hold the meeting in Kalgoorlie with the specific aim of being accessible to local mine geologists in the early stage of their careers.

CALL FOR SPONSORS

At this early stage we are seeking sponsors. Sponsors will have on-going exposure with name and logo on symposium materials, a trade booth, technical lecture slot if appropriate to topic of meeting and two delegates. We are also offering Trade Exhibitors a trade booth and one delegate registration. We are pleased to talk to you about your detailed requirements including the bulk booking of delegates.

For Further Information Contact: sgrkal2022@aig.org.au

CALL FOR PAPERS

We welcome an early indication of speaker name, affiliation and talk title. The final date for submission of talk titles is 1st February 2022, but we are pleased to receive any time before this.

Contact: sgrkal2022@aig.org.au

The meeting will include an AIG published extended abstract volume with contributions from all speakers.

SPONSORS



AIG SYMPOSIUM VOLUME

Like 2002 and 2012, the AIG will produce a symposium volume of extended abstracts (about four pages including at least one figure). This will be edited by Julian Vearncombe and papers may be reviewed by the organising committee. Importantly, abstracts should not be advertorials for research programmes or commercial products. For guidance please view the 2012 volume at <https://www.aig.org.au/publication-shop/digital-aig-bulletin-no-56-extended-abstracts-structural-geology-and-resources-symposia-kalgoorlie-26-28-september-2012/>

Authors are asked to submit Word and JPEG (or similar) files for the abstract volume **no later than 1 April 2022**. We can achieve final formatting for consistency but please make your abstract similar to the past volumes. Proofs will be sent to authors. A pdf version of the Abstracts Volume will be available by end August 2022.

KEYNOTE SPEAKERS

Tom Blenkinsop – *Cardiff University*

Failure modes in hydrothermal ore systems

Jun Cowan – *JUNCOWAN*

Deciphering structural controls of mineral deposits from a single column grade data

Bruce Hobbs – *University of Western Australia*

Analysing the spectrum of hydrothermal mineralising styles

Paul Hodkiewicz – *Anglo-american*

Resource evaluation and structural geology

Gianreto Manatschal – *University of Strasbourg*

Hydrothermal fluids, mass transfer and mineralisation in rift systems and rifted margins

John Miller – *BHP*

The challenge of defining what is a material structure in a resource model

Alison Ord – *University of Western Australia*

Vein patterns and the fluid pressure distributions in mineralising systems

Jamie Price – *Cardiff University*

Structural controls on shear-hosted lode-gold mineralisation in the Yalgoo-Singleton greenstone belt, Western Yilgarn Craton

Francois Robert – *Consultant, Canada*

Practical structural implications of the orogenic gold model

Julie Rowland – *University of Auckland*

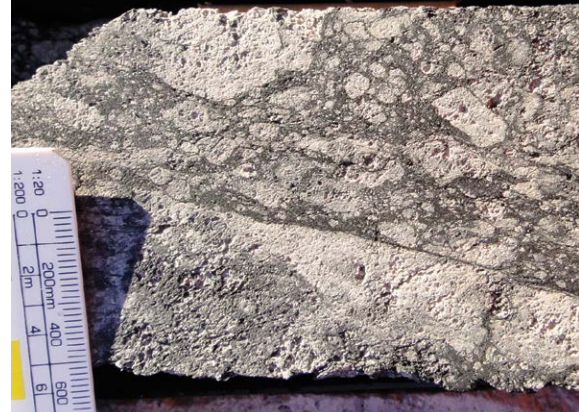
New Zealand's metal transfer super-highway

James Siddorn – *SRK, Canada*

Key structural constraints in the exploration and definition of metallic deposits: from orogenic gold to VMS

Randy Williams – *University of Wisconsin*

Rethinking the role of earthquakes in mesothermal ore deposition



REGISTRATION FEE

- The symposium registration fee for **AIG members** is \$1,100.00 including GST.
- For **non-members** of the AIG the fee is \$1,300.00 including GST.
- For **full-time student, unemployed and retired members** of the AIG the fee is \$500.00 including GST (this is about the per-person catering cost).
- All fees and charges are in Australian dollars and include morning and afternoon tea/coffee, lunch and social functions.
- Because of current and temporary global virus lockdowns and the near-total closure of travel to Australia it is difficult for us to budget. Fees quoted are provisional and will change only with massive hikes/falls to our costs.
- Short course and field trip fees will be announced nearer the event.

SOCIAL FUNCTIONS

The below social functions are included in registration fees.

Evening 26th September

Welcome Drinks at the Graduate Hall (adjacent to Western Mining Centre).

Evening 28th September

Kalgoorlie Cultural Event (pizza and beer) at the Hannans Club

SHORT COURSES AND FIELD TRIPS

One day short courses and field trips will be held as follows:

SHORT TITLE	DETAIL	SPEAKER	DATE	VENUE	TIMES
Field geology and microstructural software	Strabospot	Randy Williams	22 Sept 2022	Pagoda Resort & Spa, Como WA	09.00 to 17.30
Rift systems and rifted margins	Fluids	Gianreto Manatschal	23 Sept 2022	Pagoda Resort & Spa, Como WA	09.00 to 17.30
Mineral systems as chemical reactors	New analysis methods for map, field and drill-hole data	Bruce Hobbs & Alison Ord	25 Sept 2022	Kalgoorlie	09.00 to 17.30
Field Trip	Classic geology around Kalgoorlie	Bob Fagan & Ivan Henderson	25 Sept 2022	Kalgoorlie from WMC Centre	07.00 to about 17.30
Structural geology of hydrothermal systems	Applied geology and ore-formation	Julie Rowland & Nick Oliver	26 Sept 2022	Kalgoorlie	09.00 to 17.30
Field Tripp	Controversies around Au, structure and stratigraphy	Gerard Tripp	26 Sept 2022	Kalgoorlie from WMC Centre	07.00 to late
Applied structural geology in exploration: from orogenic gold to VMS	Exploration & Resource constraints	James Siddorn	30 Sept 2022	Kalgoorlie	09.00 to 17.30
Gold deposits in metamorphic environments	Formation & modification of gold deposits	Neil Phillips	30 Sept 2022	Kalgoorlie	09.00 to 17.30
Structure, stratigraphy and ore systems	Interplay of structure and stratigraphy, mostly in Archean lode gold deposits	Tom Blenkinsop, Jamie Price & Gerard Tripp	1 Oct 2022	Kalgoorlie	09.00 to 17.30

(There is no accompanying member's programme. But, we can put anyone interested in contact with the tourist operators in Kalgoorlie.)



SYMPOSIUM COMMITTEE:

- **Bert De Waele**
Symposium Chair
Fortescue Metals Group Ltd
- **Ivan Henderson**
Consultant
- **Stephen Sugden**
Sugden Geoscience
- **Julian Vearncombe**
Consultant
- **Lora Madriaga**
AIG WA Secretariat Officer

TRAVEL TO KALGOORLIE

At the time of writing both Qantas and Virgin Australia fly to Kalgoorlie from Perth. (But, the airline industry is in flux.) Flights are in high demand with FIFO workers and never cheap. We suggest you book well in advance.

Taxis are widely available in Kalgoorlie.

HOTELS IN KALGOORLIE

Everyone including keynotes and committee are responsible for their own accommodation.

Hotels in walking distance are:

The Plaza (hotel) <https://www.plazakalgoorlie.com.au/>

The Palace Hotel (character hotel with mining history) <https://palacehotelkalgoorlie.com/>

Quality Inn Railway (standard motel-type) <https://www.railwaymotel.com.au/rooms.html>

Quest Yelverton (posh hotel) <https://www.guestreservations.com/about/mybooking>

There are many other hotels and caravan parks with cabins a long walk / short drive away. Australia, many hotels show as full if trying to book using online booking sites more than 3 months out. They want you to contact them directly! It is possible to get discount deals with the hotels by email/phoning them directly.

For Further Information Contact: sgrkal2022@aig.org.au

JOURNAL OF STRUCTURAL GEOLOGY

As with the 2002 and 2012 events the Journal of Structural Geology will be hosting a Special Issue consequent on the symposium. Content does not need to match that given at the meeting. The special issue editors are

Tom Blenkinsop, Bert De Waele & Julian Vearncombe.

Contact us if you intend to submit for this volume. Submission dates for final manuscripts is November 2022.