<table>
<thead>
<tr>
<th>Time</th>
<th>Venue/Room</th>
<th>Event Description</th>
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</table>
| 9:00am - 12:00pm | GSWA Perth Core Library, Carlisle | The Gascoyne Province, WA: an emerging carbonatite and REE powerhouse  
Dr Franco Pirajno (University of Western Australia)  
Ross Chandler (Australian National University)  
Pete Siegfried (University of Exeter)  
Andrew Ford (Hastings Technology Metals Ltd)  
Matt Crowe (Dreadnought Resources)  
Matt Roache (Kingfisher Mining)  
 AusGeochem: research tool to archive, synthesise, find and extract geochemistry data |
| 1:00pm - 4:00pm | Meeting Room 8  
Perth Convention and Exhibition Centre | Machine augmented interpretation of geology  
Dr Chris Gonzalez, Dr Tom Horrocks, Dr Daniel Wedge, Dr David Nathan, Dr Minh Tran, Prof Eun-Jung Holden  
AusGeochem: research tool to archive, synthesise, find and extract geochemistry data  
Dr Bryant Ware (Curtin University)  
Empowering Earth Scientists in Reconciliation  
Verity Normington, Jo Condon, Jessica Stromberg, Torres Webb, Tiah Penny, Amber Jarrett |
<p>| 5:00pm - 7:00pm | Bellevue Ballroom 2 Foyer (Exhibition Area) | Conference Welcome Reception |</p>
<table>
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| 11:00am - 12:20pm | **1.1a Evolution and assembly of the Australian lithosphere: Hadean to modern**  
Chairperson: Fang Xia  
Chairperson: Zheng-Xiang Li  
Chairperson: Anna Petts  
**1.1b Evolution and assembly of the Australian lithosphere: Hadean to modern**  
Chairperson: Sandra Villacorta Chambi  
Chairperson: Bree Morgan  
Chairperson: Heidi Allen |
| 11:00am - 12:20pm | **Construction of the North Australian Craton 2.67–1.68 Ga: a review**  
Invited: Alexander De Vries Van Leeuwen  
Chairperson: Laura Morrissey  
Chairperson: Natalie Towe  
Chairperson: Timmy Leong |
| 9:30am - 10:30am | **Invited: Jo Whelan** |
| 12:20pm - 1:30pm | **Lunch** |
| 1:30pm - 2:30pm | **Afternoon Tea** |
| 2:30pm - 3:00pm | **Allochthonous terrains track Earth’s evolution**  
Robert Rust Tick  
Chairperson: Pete Kinny |
| 3:00pm - 5:00pm | **1.1b Evolution and assembly of the Australian lithosphere: Hadean to modern**  
Chairperson: Martin Money  
Chairperson: Mylo Kebba  
Chairperson: John Gough  
**1.2b Dynamic Earth Special Symposium: Evolving Earth’s environment and climate: an Earth System approach**  
Chairperson: David Satur  
Chairperson: Jochen Rüegg  
Chairperson: Roberta Rusby |
| 5:00pm - 6:00pm | **Early Career Geoscientist Evening (Applicable to ECG delegates only)**  
The Boardroom at Crown Metropol Perth |
### Australian Earth Sciences Convention 2023

**27 - 30 June 2023**

**Park Convention and Exhibition Centre**

**Wednesday 28 June 2023**

**Red Ballroom 2 Floor Plan**

<table>
<thead>
<tr>
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| 08:00 | 3.1a | Earth resources - present and future: New advances in critical minerals  
Chairperson: Melinda McHenry |
| 08:20 | 3.1a | Earth resources - present and future: New advances in critical minerals  
Chairperson: Laura Jackson |
| 08:40 | 3.1b | Earth resources - present and future: New advances in critical minerals  
Chairperson: Steve Reddy |
| 09:00 | 3.1a | Earth resources - present and future: New advances in critical minerals  
Chairperson: Melinda McHenry |
| 09:20 | 3.1a | Earth resources - present and future: New advances in critical minerals  
Chairperson: Laura Jackson |
| 09:40 | 3.1b | Earth resources - present and future: New advances in critical minerals  
Chairperson: Steve Reddy |

**Meeting Room 1**

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| 10:40 | 1.1d | Evolution and assembly of the Australian lithosphere - Hadean to modern  
Chairperson: Simon Johnson |
| 10:45 | Invited: Alexander Edgar |
| 10:50 | Keynote: Maria Seton |
| 11:10 | 2.2a | Magmas and mountain belts: Brittle and ductile deformation from microstructures to supercontinents  
Chairperson: Jack Stirling |
| 11:15 | 2.2a | Magmas and mountain belts: Brittle and ductile deformation from microstructures to supercontinents  
Chairperson: Jack Stirling |
| 11:30 | 2.2a | Magmas and mountain belts: Brittle and ductile deformation from microstructures to supercontinents  
Chairperson: Jack Stirling |
| 11:45 | 2.2a | Magmas and mountain belts: Brittle and ductile deformation from microstructures to supercontinents  
Chairperson: Jack Stirling |
| 12:00 | 2.2a | Magmas and mountain belts: Brittle and ductile deformation from microstructures to supercontinents  
Chairperson: Jack Stirling |

**Meeting Room 2**

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Chairperson: Jack Stirling |
| 12:00 | 2.2a | Magmas and mountain belts: Brittle and ductile deformation from microstructures to supercontinents  
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**Meeting Room 3**

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**Meeting Room 4**

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**Meeting Room 5**

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**Meeting Room 6**

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Chairperson: Jack Stirling |
Wednesday 28 June 2023
BelleVue Ballroom 2
Chairperson: Fabio Capitanio
Invited: Mark Hoggard
Michael Hartnady
Dr Sam Matthews
Andrew Roberts
Rhodri Davies
Uwe Kirscher
Perspective

9:00am - 9:20am
1. The Australian Lithosphere: Geophysical Imaging of the Australian Continental Margin
Chairperson: Michael Hartnady
Dr Sam Matthews
Andrew Roberts
Rhodri Davies
Uwe Kirscher
Perspective

9:20am - 9:40am
2. The Australian Lithosphere: The composition and dynamics of the Australian upper mantle
Chairperson: Andrew Roberts
Dr Sam Matthews
Andrew Roberts
Rhodri Davies
Uwe Kirscher
Perspective

9:40am - 9:50am
3. The Australian Lithosphere: The Australian upper mantle
Chairperson: Andrew Roberts
Dr Sam Matthews
Andrew Roberts
Rhodri Davies
Uwe Kirscher
Perspective
### Meeting Room 1

**Chairperson:** Luc Doucet

**Meeting Room 2**

**WA Earth Connections**

**Chairperson:** Juraj Farkas

**Meeting Room 3**

**Chairperson:** Chuan Huang

**Chairperson:** Victoria Cousins

**Chairperson:** Janne Liebmann

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### Meeting Room 4

**Chairperson:** Morgan Blades

**Meeting Room 5**

**BelleVue Ballroom 2**

**Indrani Mukherjee**

**Group 1: Detrital Zircon geochronology and provenance study of the Wattie Ranges, Australia provided by U-Pb and Lu-Hf isotopes in detrital zircons of the Neoproterozoic Yeneena Basin, Western Australia**

**Group 2: Geochronology and formal stratigraphy of the Sturtian Glaciation in Australia provided by in situ Rb-Sr dating and REE patterns of Ediacaran glauconites and biogenic carbonates**

**Group 3: Revised stratigraphy of the Ashburton Basin, northern Capricorn Orogen, Western Australia**

**Keynote:** Heidi Allen

### Meeting Room 6

**Chairperson:** Steven Reddy

**BelleVue Ballroom 2**

**Group 1: Testing suitability of GLO glauconite grains for in-situ Rb-Sr dating: Constraints from in-situ Rb-Sr dating of authigenic green clays formed in modern hardgrounds**

**Group 2: In-situ Rb-Sr dating by LA-ICP-MS/MS as a geochronological tool: Testing the projectability of e.g., marine glauconites and bioapatite from the Middle Cambrian Georgina Basin, Queensland**

**Group 3: Neoproterozoic palaeoenvironments across the northern Flinders Ranges, Australia?**

**Keynote:** Indrani Mukherjee

### Meeting Room 7

**Chairperson:** Steven Reddy

**BelleVue Ballroom 2**

**Group 1: Testing suitability of GLO glauconite grains for in-situ Rb-Sr dating: Constraints from in-situ Rb-Sr dating of authigenic green clays formed in modern hardgrounds**

**Group 2: In-situ Rb-Sr dating by LA-ICP-MS/MS as a geochronological tool: Testing the projectability of e.g., marine glauconites and bioapatite from the Middle Cambrian Georgina Basin, Queensland**

**Group 3: Neoproterozoic palaeoenvironments across the northern Flinders Ranges, Australia?**

**Keynote:** Indrani Mukherjee

### Meeting Room 8

**Chairperson:** Steven Reddy

**BelleVue Ballroom 2**

**Group 1: Testing suitability of GLO glauconite grains for in-situ Rb-Sr dating: Constraints from in-situ Rb-Sr dating of authigenic green clays formed in modern hardgrounds**

**Group 2: In-situ Rb-Sr dating by LA-ICP-MS/MS as a geochronological tool: Testing the projectability of e.g., marine glauconites and bioapatite from the Middle Cambrian Georgina Basin, Queensland**

**Group 3: Neoproterozoic palaeoenvironments across the northern Flinders Ranges, Australia?**

**Keynote:** Indrani Mukherjee
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<tbody>
<tr>
<td>4:10pm</td>
<td>293. The Officer Basin - salt tectonics in a foreland basin setting</td>
</tr>
<tr>
<td></td>
<td>Christopher Elders</td>
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<tr>
<td>4:30pm</td>
<td>287. Using O isotopes and trace elements to characterize hydrothermal fluids of the western Aileron Province, Western Australia</td>
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<td></td>
<td>Jennifer Porter</td>
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<td></td>
<td>19. Field evidence for the transition from vertical to horizontal tectonics in the late Archean, Eastern Goldfields, Western Australia</td>
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<td></td>
<td>Sarah Jones</td>
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<td>5:00pm</td>
<td>Conference Close</td>
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