

AQUA 2022 Conference (6-8th December) program overview

Dear AQUA colleagues,

We are looking forward to welcoming all of you, but particularly first-time participants in the AQUA conference, to Adelaide. I hope that this program overview whets your whistle for the AQUA conference which is now less than two weeks away. This document provides the key information about the timing and location of sessions and events for the conference. A longer version of the program will be provided for the conference itself. Please, of course, contact me if you have any questions.

Yours sincerely,

John Tibby

AQUA President and Organising Committee member on behalf of the organising committee:

Lee Arnold, Tiah Bampton, Kym Edwards, Alexander Francke, Charlie Maxson, Vanessa Nowinski, Jon Tyler, John Tibby

With thanks to our generous sponsors



AUSTRALIAN RESEARCH COUNCIL
**Centre of Excellence for
Australian Biodiversity
and Heritage**

CHRONOS 14Carbon-Cycle Facility (UNSW)

Monday night (5th December)

6:00 – 9:00 pm	Icebreaker (with drinks and nibbles)	Roxie's Beer Garden. 182 Grenfell Street, Adelaide. http://www.roxies.com.au
	There will be an opportunity to register at the ice breaker (but also at other times on Tuesday – see below)	

Day 1: Tuesday 8th December

7:30 – 7:55 am	Registration	Mawson Building entrance
	NB: There will be an opportunity to register at morning tea	
8:00 – 8:30 am	Welcome to country	TBC
8:30 – 9:00 am	Conference opening	Mawson Lecture Theatre
9:00 – 9:30 am	Keynote presentation Dr Katharine Grant “Abrupt change in North African hydroclimate and landscape evolution 3.2 million years ago?”	Mawson Lecture Theatre
9:30 – 10:30 am	Oral presentations “People, Dust and Late Quaternary Environments” A Memorial Session for Dr Lynda Petherick, AQUA President 2018-2022	Mawson Lecture Theatre
10:30-11:00 am	Morning tea	Sprigg Room
11:00 – 1:00 pm	Oral presentations: “Oceans and Coasts”	Mawson Lecture Theatre
1:00 – 2:00 pm	Lunch: Wood-fired oven pizza	Outside the Mawson Building
2:00 – 3:00 pm	5 minute long “lightning” talks	Mawson Lecture Theatre
3:00 – 5:30 pm	Poster session (with afternoon tea and drinks)	Sprigg Room
5:30 – 8:30 pm	Student and ECR event (with thanks to CABAH for sponsorship) Animals Anonymous interactive presentation with Australian native animals followed by drinks and dinner	Mawson Lecture Theatre and then Unibar

NB: For those people not students and ECRs please find your own entertainment

Day 2: Wednesday 7th December

8:30 – 9:00 am	Keynote presentation Dr Kale Sniderman “Uniformitarianism's epic fail: the glacial aridity paradigm”	Mawson Lecture Theatre
9:00 – 10:30 am	Oral presentations “New insights into abrupt climate changes, tipping points and major transitions throughout the Quaternary”	Mawson Lecture Theatre
10:30-11:00 am	Morning tea	Sprigg Room
11:00 – 1:00 pm	Oral presentations: Joint session with the Australian Archaeology Association (remote session from Darwin)	
1:00 – 2:00 pm	Lunch and OCTOPUS workshop (details below)	Sprigg Room Mawson Lecture Theatre
2:00 – 4:00 pm	Oral presentations: Joint session with the Australian Archaeology Association (in person session at AQUA)	Mawson Lecture Theatre
4:00 – 4:30 pm	Afternoon tea	Sprigg Room
4:30 – 5:30 pm	Oral presentations: “The past two thousand years of hydroclimate: from mean states to climate extremes”	
7:00 pm	Conference Dinner: Belgian Beer Café	Belgian Beer Café, 27/29 Ebenezer Place, Adelaide

Day 3: Thursday 8th December

8:30 – 9:00 am	Keynote presentation Dr Kathryn Allen “Summer and winter flow records for Tasmania derived from a local tree-ring network”	Mawson Lecture Theatre
9:00 – 10:30 am	Oral presentations “Lakes, Rivers and Landscapes...and the rest”	Mawson Lecture Theatre
10:30-11:00 am	Morning tea	Sprigg Room
11:00 – 12:45 pm	Oral presentations “Humans and ecosystems, and Climate and the Cryosphere”	Mawson Lecture Theatre
12:45 pm	Special presentation and student poster prize presentation Ms Michelle Durant, Australian Institute of Nuclear Science and Engineering	Mawson Lecture Theatre
1:00 – 2:00 pm	Lunch Poster session <i>redux</i> . We encourage poster authors to stand with their posters this lunch time	Sprigg Room
2:00 – 4:00 pm	Oral presentations: Climates and Humans	Mawson Lecture Theatre
4:00 – 4:30 pm	Afternoon tea	Sprigg Room
4:30 – 5:30 pm	Oral presentations: Varied (but exciting!) talks	Mawson Lecture Theatre
5:30 pm	Conference close and presentation of awards	
6:30 pm	Quiz night	Unibar

Day 4: Friday 9th December

Field trip to the Coorong, lower lakes and Coorong coastal plain

Depart 8:00 am Victoria Drive (C-9) on the map below

Return 6:00 pm to the same location

More details provided at the conference

Length of presentations

Full length oral presentations: 12 min speaking time and 3 min for questions

Lightning presentations: 5 min (ideally 4 min with time for one question and answer)

Poster size and orientation

Posters should be no larger than A0 size (i.e. 841 x 1189 mm) and be oriented in **Portrait** format.

Student poster and talk prizes

Thanks to the generous sponsorship of both AINSE and UNSW's CHRONOS 14Carbon-Cycle Facility there are prizes for the best student talks and posters. Prizes will be awarded in honour of our late colleague Dr Lynda Petherick, AQUA President 2018-2022.

Venue locations – external

Icebreaker: Roxie's Beer Garden. 182 Grenfell Street, Adelaide. www.roxies.com.au.

Dinner: Belgian Beer Café, 27/29 Ebenezer Place, Adelaide. www.oostende.com.au

OCTOPUS Workshop

Wednesday lunchtime, Mawson Lecture Theatre

Dr Emma Rehn (James Cook University) and Dr Haidee Cadd (University of Wollongong)

OCTOPUS is an open-access database of age determinations and denudation rates from archaeological, sedimentary, fossil, and glacial archives. OCTOPUS' core collections are currently SahulArch (archaeological ^{14}C , OSL, and TL-derived ages), SahulSED (sedimentary OSL and TL-derived ages) and CRN (^{10}Be and ^{26}Al -derived catchment-averaged denudation rates). In 2023, OCTOPUS core collections will expand to include charcoal data from sedimentary archives (SahulCHAR), and ^{14}C dates from sedimentary archives (within SahulSED).

OCTOPUS database centralises data gathered from a broad array of sources, including published works and grey literature, which were lacking consistent reporting standards. OCTOPUS standardises these data with detailed metadata fields specific to each sub-collection. Data collection standards were determined through community input and expert advice for each dating method. OCTOPUS provides homogenised, curated datasets containing relevant metadata that can be used by researchers for a range of applications such as review, modelling, and assessment of chronometric robustness. The database is cloud-based and open access, meaning users can access data via a web interface or directly through software such as QGIS or R using the Web Feature Service.

This workshop will introduce participants to the OCTOPUS core collections and provide an interactive walk-through of accessing data through OCTOPUS via the web interface and Web Feature Service. The workshop is also an opportunity for open discussion, and feedback from the AQUA community, on how best to support the community to use and update OCTOPUS, and on the development of SahulCHAR.

To access the OCTOPUS web interface, visit <https://octopusdata.org/>

For more information on OCTOPUS
visit: <https://epicaustralia.org.au/resource/octopus/>



AUSTRALIAN RESEARCH COUNCIL
**Centre of Excellence for
Australian Biodiversity
and Heritage**