



37th Annual Conference of the Australasian Society for Human Biology

Multidisciplinary Perspectives in a Changing World

11th – 13th December 2023
Meanjin (Brisbane), QLD

Provisional Program (October 2023 Version)

Co-sponsors:

Australasian Research Cluster for Archaeological Science,
Australian Research Centre for Human Evolution &
Griffith Centre for Social and Cultural Research



Pre-Conference Events & Public ARCHE Event

ARC Grant Writing Workshop

Saturday morning, December 9th

Griffith University Gold Coast Campus, 10:30am - 12:00pm

This event will be held immediately following the AAA conference on the Gold Coast, but will include a remote option for participation.

Pre-registration is required, full details to follow shortly.

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Identifying Human Skeletal Remains Workshop

Sunday afternoon, December 10th

Griffith University South Bank Campus, 3:00pm - 5:00pm

This hands-on event will familiarize participants with the anatomy of the human skeleton, but will not include a remote option for participation.

Pre-registration is required, full details to follow shortly.

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Informal Happy Hour at The Plough Inn

Sunday 6pm, December 10th

29 Stanley St Plaza, South Brisbane

Pre-registration not required, and family or friends are welcome!

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Australian Research Centre for Human Evolution (ARCHE) Human Origins Public Forum & Reception

Monday 6pm, December 11th

Queensland College of Art Auditorium, Room S05_2.04 (near the Ship Inn)

Panelists will discuss "Homo sapiens: The Incredible Human Journey from Our Humble Origins to Global Expansion" followed by an outdoor reception.

Pre-registration is required, full details to follow shortly.

ASHB Conference Program: December 11th

Location: Ship Inn Function Room (2nd Level)

*This first day is co-hosted w/ the Australasian Research Cluster for Archaeological Science (ARCAS) and features several extended-length introductions to new research foci in archaeological science and human biology. Presenters' names are underlined and student prize contenders are marked with: **

- 8:30 am *Registration, Coffee & Tea Available / Presenters to Load Talks*
- 9:00 am **Welcome to Country and Introductions**
- 9:15 am **Archaeological Science Keynote**
- Amy Prendergast: Hominin responses to changing environmental conditions from the Lower to Upper Palaeolithic in the Levant*
- 10:00 am **Session 1: Archaeological Science**
- Maya Bharatiya* et al.: Tracking childhood lead exposure in 20th century Romanians*
- Giles Hamm et al. (presented by Jillian Huntley): 40,000 years of Kopi use in the southern arid interior of Australia: evidence from Warraty Rock Shelter in Adnyamathanha Country*
- 10:30 am *Morning Tea*
- 11:00 am **Session 2: Proteins and Isotopes**
- Shevan Wilkin: Proteomics of archaeological materials (extended talk)*
- Olivia Cashmere & Jason Laffoon: Vitamin D deficiency and breastfeeding: an exploration of Post-Medieval Dutch communities through isotopic analysis*
- Emma Sudron* & Tanya Smith: Stress, nitrogen balance and stable isotope analysis of dentine: a review of bioarchaeological applications*
- Ian Williams et al.: New protocol for measurement of nitrogen isotopes in dentine at high temporal resolution*
- Tanya Smith et al.: Primate teeth are robust proxies for understanding climate change in the past*
- 12:30 pm *Lunch*
- 1:30 pm **Biological Anthropology Keynote**
- Leslea Hlusko: Into the unknown: discovering evidence of human biological adaptation to the Arctic during the last Ice Age*
- 2:15 pm **Session 3: Human Adaptation and Evolution**

Georgia Rolls* et al.: *Assessment of first molar enamel thickness in humans with different subsistence methods*

María Hernaiz-García* et al.: *Biomechanical relevance of Neanderthal dental anatomy*

Andy Herries & Angeline Leece: *Microevolution in an early Pleistocene hominin lineage*

3:00 pm *Afternoon Tea (Break Out Space: New to Conference Networking)*

3:30 pm **Session 3: Human Adaptation and Evolution (Continued)**

Debbie Argue: *Island South East Asia - a new frontier for human evolution*

David Waynforth: *What can the shapes of frequency distributions of biometric traits tell us about evolutionary selection pressure?*

Mathew Stewart & Michael Petraglia: *Humid periods and human dispersals in Arabia*

4:15 pm **Group Discussion / Wrap Up**

6:00 pm Optional: ARCHE Human Origins Public Forum and Reception
(QCA Lecture Theatre, Room S05_2.04, Pre-registration required)

ASHB Conference Program: December 12th

Location: Ship Inn Function Room (2nd Level)

8:00 am Optional: South Bank Walking Tour

(Meet up at Ship Inn Ground-Level Entrance to Function Room)

8:45 am *Registration, Coffee & Tea Available / Load Talks*

9:15 am **Bioarchaeology Keynote**

Ronika Power: *Biocultural archaeology education, fieldwork and research: interdisciplinary approaches to human experiences of living and dying in the past*

10:00 am *Morning Tea*

10:30 am **Session 4: Bioarchaeology**

Yan Liu*: *Exploring the impact of animal herding, mobility, violence, and social inequality on injury patterns: A case study of the Neiyangyuan Site*

Christine Cave: *Death in labour: Grave 26 Worthy Park and coffin birth*

Alexandra Doubleday* et al.: *Creating context: interdisciplinary approaches to (re)humanising curated human remains in a post-excavation world*

Judith Littleton & Caitlin Bonham Smith: *Identifying catastrophe in Sassanian tombs from Bahrain: the importance of revisiting data*

Jithya Joshy* et al.: *A discriminant function to assist anatomy school evaluations of alleged medical-teaching skeletons from public sources*

Lauren Swift et al.: *Tomb IGN 97 from Hegra: Preliminary analysis of a highly commingled skeletal assemblage*

12:00 pm *Lunch*

1:00 pm **Session 5: Forensic Anthropology**

Sunday Harper Burnett*: *Taphonomy facilities as teaching tools: a student perspective*

Natasha Mullard* et al.: *Morphometric analysis of pelvic CT scans to estimate sex in an Australian population: A comparative study of diagnose sexuelle probabiliste 2 (DSP2) and Franklin et al. (2014) methods*

Natasha Heap & Xenia Kyriakou: *Forensic archaeology in air crash investigation – an Australian perspective*

Te Wai Pounamu Hona* & Carl Stephan: *Understanding the role of body mass on sexual dimorphisms of facial soft tissue thicknesses in children aged 5–17 years*

Ellen Murphy* et al.: *The postmortem interval in juveniles in an Australian temperate environment*

Sean Healy* & Carl Stephan: *Does Blender® correctly represent perspective in synthetic photographs for use in forensic anthropology: a validation test*

2:30 pm *Afternoon Tea (Break Out Space: Alt-Academic Careers)*

3:00 pm **Session 5: Forensic Anthropology (Continued)**

Maddison Bourke et al.: *Hand-wrist forensic age estimation: assessment of skeletal development in Australia*

Eden Whittaker et al.: *Evaluation of 3D scanning tools for the recovery of clandestine burials*

Gabrielle Boisseau* et al.: *Accuracy of age estimation using CT scans of the pubic symphysis and auricular surface in a Western Australia population*

Vienna Lam* et al.: *Aquatic human body decomposition in Victoria, Australia: 10-year review of domestic and pool-based taphonomy*

4:00 pm **Group Discussion / Wrap Up**

6:00 pm Optional: Early Career Researchers' Night Out at South Bank

(Meet up at Ship Inn Ground-Level Entrance to Function Room)

ASHB Conference Program: December 13th

Location: Ship Inn Function Room (2nd Level)

- 8:30 am *Coffee & Tea Available / Load Talks*
- 9:00 am **Pedagogy Keynote**
Mike Todorovic: *Power of the post - leveraging social media in medical education*
- 9:45 am **Session 6: Pedagogy**
Sarah Croker et al.: *Dissecting student perspectives on a clinical enrichment anatomy short course*
Georgia Stannard: *Opportunities for engagement and outreach linked to the Australian Curriculum*
Stacey Ward et al.: *A preliminary analysis of the effectiveness of online practical laboratory delivery using 3D models for higher education courses in biological anthropology*
- 10:30 am *Morning Tea*
- 11:00 am **Session 7: Paleopathology**
Karen Cooke* et al.: *Are osseous changes of treponematosi systemic or localised? A case-study of Treponematosi palaeohistopathology*
Ambika Flavel et al. (presented by Megan Price): *Hemi-hypoplasia: a case study from Plague era Venice (Italy)*
Marine Chkadua: *Socio-cultural transitions and oral health: A study of Middle and Late Bronze Age population in Georgia (south Caucasus)*
Phoebe Meyrick: *Treponemal disease in a commingled assemblage from Papua New Guinea*
Natasha Heap et al.: *Are there temporal trends in dental health in prehistoric mainland southeast Asia?*
- 12:15 pm *Lunch (Break Out Space: Teaching Matters)*
- 1:00 pm **Session 8: Health, Physiology & Reproduction**
Debra Judge: *Maternal, gestational, and family associations with early child growth: Why does the growth of rural Timor-Leste children continue to lag?*
Adam Bode* & Philip Kavanagh: *Are there different phenotypes of romantic love?*
Nicholas Malone: *Siapa mau beli? Discrete supply and online demand for illegally traded wildlife in Indonesia*

Temitope Bolomope* et al: *Effects of early stress and exercise on age at menarche: A systematic literature review*

David Coall et al.: *Maternal grandmothers maintain investment in grandchildren who have experienced early adversity*

M.A. Paola Borquez-Arce* et al.: *Characterisation of women's reproductive outcomes, household ecology and empowerment in two rural communities of Timor-Leste in 2018*

Heather Battles & Phillip Roberts: *A historical syndemic? The impact of synergistic epidemics of measles and scarlet fever on life expectancy in Victoria, Australia (1860s-1870s)*

Shantha Karthigesu et al.: *Association between seasonal influenza and COVID-19 vaccines in the post-pandemic community*

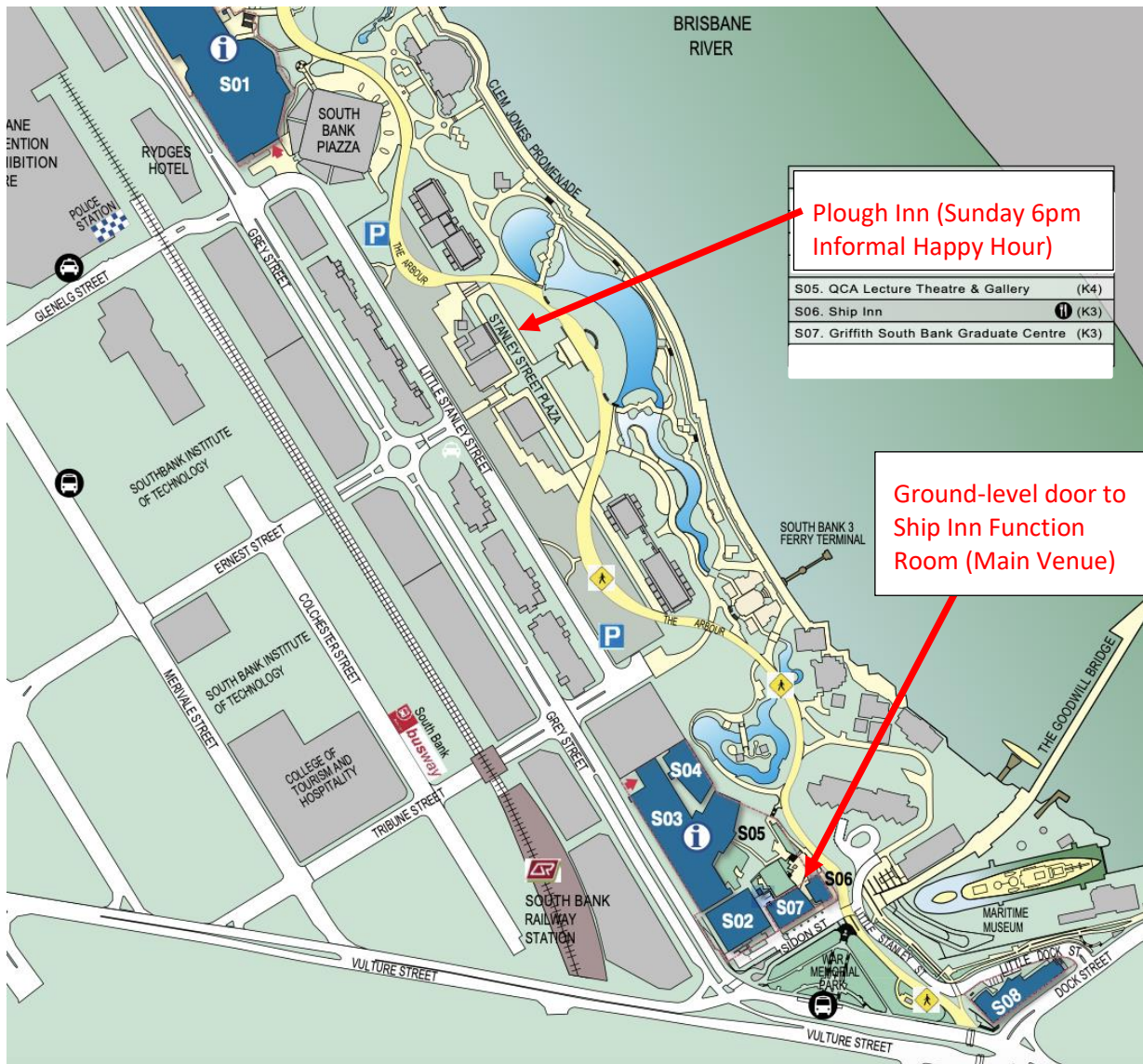
3:00 pm *Afternoon Tea*

3:15 pm **ASHB Annual General Meeting + Student Prizes Awarded**

5:00 pm Optional: Meetup for 5:30 River Ferry & Walk to Dinner Venue
(Meet up at Ship Inn Ground-Level Entrance to Function Room)

6:00 pm Optional: ASHB 2023 Closing Dinner and Barefoot Bowls
(New Farm Bowls Club, 969 Brunswick Street, New Farm; Pre-registration required)

ASHB CONFERENCE LOGISTICS & LOCAL ENTERTAINMENT INFORMATION



Note key transit hubs to the west of the venue (**South Bank busway, South Bank railway station**). The **Mater Hill bus station** is just off the map in the SE corner, near several accommodations and public hospitals. Transit info: <https://translink.com.au>

Numerous restaurants can be found along Grey Street, Little Stanley Street, Stanley Street Plaza, as well as within the South Bank Parklands next to the river. The South Bank railway station also has cafes and grocery stores inside a covered mall (main entrance on Grey Street is only a five-minute walk to the Ship Inn venue).

Additional attractions along Grey Street just north of the South Bank Parklands include the Queensland Performing Arts Centre, the Queensland Museum (Natural History), and the Gallery of Modern Art. The 60-metre high Wheel of Brisbane offers student discounts, and is open until 10pm each night (east of Grey Street, at the end of the Arbor walkway). There is also ample shopping across the river in Brisbane's Central Business District (particularly the Queen Street Mall), and a large botanical garden on the east side of the pedestrian-only Goodwill Bridge. This bridge also leads to the QUT Ferry Terminal, for river transit to the closing dinner at the New Farm Bowls Club.