

## CONFERENCE PROGRAM

Student presenters are indicated with an \* in the Program

SUNDAY 2 DECEMBER 2018

F.M.BAILEY ROOM (HERBARIUM)

9:00-late ASBS Council meeting

MONDAY 3 DECEMBER 2018

MULTIPLE LOCATIONS

8:45 for

9:00-17:00 Workshop: How to referee taxonomic manuscripts: STATE LIBRARY OF QUEENSLAND

17:00-20:00 Welcome Reception and launch of *Systems* art exhibition: QUEENSLAND HERBARIUM

TUESDAY 4 DECEMBER 2018

AUDITORIUM (BOTANIC GARDENS)

8:30-8:45 Introduction and Housekeeping

8:45-9:15 Welcome to Country, Welcoming Address and Opening of Conference

SESSION 1: SHARING BOTANICAL WEALTH: ENGAGEMENT, BENEFIT SHARING AND THE NAGOYA PROTOCOL

SESSION CHAIR: KATHARINA NARGAR

9:15-10:00 Queensland Biodiscovery Act  
Julia Playford

10:00-10:15 Indigenous Engagement with Science  
Gerry Turpin

10:15-10:30 Ka rere nga purapura a Matariki; the seeds of the Pleiades are falling  
Nick Roskrige

10:30-11:00

MORNING TEA

11:00-11:15 Nagoya Protocol on Access Benefit Sharing: implications for herbaria and systematics research  
Shelley James; Gillian Brown, Antony Kusabs, Karina Knight, Josephine Milne, Dhahara Ranatunga

11:15-11:30 Increasing fungal literacy in Australasia: lessons from Universities to communities  
Teresa Lebel; Sapphire McMullan-Fisher, Sandra Abell

11:30-12:00 Sharing botanical wealth panel discussion

12:00-13:00

LUNCH

SESSION 2: INSIGHTS FROM LONG AGO: PALAEOBOTANY INFORMING SYSTEMATICS

SESSION CHAIR: ALEXANDER SCHMIDT-LEBUHN

13:00-13:45 *Plenary Address*: Imposing geochronological constraints on the stratigraphic record of life  
Paulo Vasconcelos

- 13:45-14:00 Newly discovered syncarpous fruits from the Oligocene Capella locality suggest links to Moraceae  
**Andrew Rozefelds**
- 14:00-14:15 A comprehensive fossil calibration database for estimating angiosperm divergence times  
**Hervé Sauquet**; Santiago Ramírez-Barahona, Susana Magallón

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SESSION 3: MACPHERSON–MACLEAY, OTHER GAPS AND OVERLAPS: BIOGEOGRAPHY OF AUSTRALASIA SESSION CHAIR: MATT RENNER

- 14:15-14:30 Mind the Gap – Extinction pulse at Eocene–Oligocene boundary drives diversification dynamics of the Australian temperate flora  
**Francis Nge\***; Ed Biffin, Kevin Thiele, Michelle Waycott
- 14:30-14:45 Evolution of *Geosiris* (Iridaceae): historical biogeography and plastid-genome evolution in a genus of non-photosynthetic tropical rainforest herbs disjunct across the Indian Ocean  
**Elizabeth Joyce\***; Darren Crayn, Vivienne Lam, Wesley Gerelle, Sean Graham, Lars Nauheimer

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14:45-15:15

AFTERNOON TEA

- 15:15-15:30 Phylogeography of *Spyridium parvifolium* (Rhamnaceae) across south-eastern Australia  
**Catherine Clowes\***; Michael Bayly, Gillian Brown
- 15:30-15:45 Gaps and Overlaps in the South-East Australian Mallee: Systematics and Phylogeography of Mallee-Boxes  
**Patrick Fahey\***; Michael Bayly, Frank Udovicic, David Cantrill
- 15:45-16:00 The SAD model - an uplifting tale of how migration stimulated the diversification of the Malesian flora  
**Darren Crayn**; Elizabeth Joyce

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SESSION 4: POSTER PRESENTATIONS

SESSION CHAIR: GILL BROWN

- 16:05-16:10 Using large-scale ecological data to support taxonomic decisions in difficult species complexes in *Ptilotus* (Amaranthaceae)  
**Timothy Hammer\***; Paul Macintyre, Ladislav Mucina, Kevin Thiele
- 16:10-16:15 Phylogeographic congruence in *Lindernia* (Linderniaceae) with biotic regions across northern Australia  
**Bill Barker**; Ed Biffin
- 16:15-16:20 Clarification of species limits of *Prostanthera cineolifera* R.T.Baker & H.G.Sm. (Lamiaceae) essential for conservation  
**Ruth Palsson\***; Jeremy Bruhl, Rose Andrew, Ian Telford, Trevor Wilson
- 16:20-16:25 Integrative taxonomic revision of *Melichrus* R.Br. (Ericaceae subfam. *Epacridoidae*)  
**Helen Kennedy\***; Jeremy Bruhl, Darren Crayn, Rose Andrew, Ian Telford
- 16:25-16:30 ddRAD-seq identifies a recurrent *Dicksonia* tree fern hybrid  
**Lara Shepherd**; Patrick Brownsey, Chris Stowe, Leon Perrie

- 16:30-16:35 Population genetic analysis to inform conservation of the endangered Isis Tamarind, *Alectryon ramiflorus* (Sapindaceae)  
**Robert Lamont**; Steven Ogbourne, Gabriel Conroy, Joel Nichols
- 16:35-16:40 In defense of phrase names  
**Ian Telford**; Jeremy Bruhl
- 16:40-16:45 Blindspots in the rainforest – a case study of *Elaeocarpus* (Elaeocarpaceae) in Fiji  
**Yumiko Baba**; Marika Tuiwawa
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- 16:45-17:00 Housekeeping
- 17:00-18:00 ASBS Annual General Meeting

WEDNESDAY 5 DECEMBER 2018

AUDITORIUM (BOTANIC GARDENS)

- 8:30-8:40 Housekeeping
- 8:40-8:45 *N.T. Burbidge medal introduction by ASBS President*
- 8:45-9:45 N.T. Burbidge medal recipient address
- 9:45-10:15 Taxonomy Australia  
**Kevin Thiele**
- 10:15-10:30 Poster chat (poster presenters to be available to discuss their work)

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10:30-11:00

MORNING TEA

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SESSION 5: PHYLOGENETIC AND TAXONOMIC PROGRESS 1

SESSION CHAIR: TANYA SCHARASCHKIN

- 11:00-11:15 Resolving of the backbone of *Ptilotus* and establishing a new taxonomic framework for the aervoid clade (Amaranthaceae)  
**Timothy Hammer\***, Xiao Zhong, Catherine Colas des Francs-Small, Paul Nevill, Ian Small, Kevin Thiele
- 11:15-11:30 If it's yellow, let it mellow: Investigating toxicity variation in southern Australian yellow-staining *Agaricus* in a phylogenetic context  
**Amelia-Grace Boxshall\***; Teresa Lebel, Damien L. Callahan, Todd McLay, Joanne Birch
- 11:30-11:45 Taking an integrative approach to resolve the *Xerochrysum bracteatum* species complex  
**Tim Collins\***; Alexander N. Schmidt-Lebuhn, Rose L. Andrew, Ian R.H. Telford, Jeremy J. Bruhl
- 11:45-12:00 The 'Taxonomic Gap' and progress towards a 'Global Flora'  
**Russell Barrett**
- 12:00-12:15 How to look again at *Spermacoce* and *Borreria* (Rubiaceae): is morphological evolution in Australian *Spermacoce* key to our understanding of generic limits?  
**Kerry Gibbons**; Marco Duretto
- 12:15-12:30 Speciation theory and species delimitation using *Eucalyptus* as a model  
**Susan Rutherford**

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12:30-13:30

LUNCH

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SESSION 6: PHYLOGENETIC AND TAXONOMIC PROGRESS 2

SESSION CHAIR: SHELLEY JAMES

- 13:30-13:45 Australian grass diversity: phylogenetic overview, global comparisons and future direction  
**Tanya Scharaschkin**
- 13:45-14:00 Vale *Velleia* (and others) – the final chapter of our *Goodenia s.l.* saga  
**Kelly Shepherd; Rachel Jabaily**
- 14:00-14:15 How many species of toropapa (*Alseuosmia*) are disguised in the bush?  
**Lara Shepherd; Andrew Townsend, Peter de Lange, Leon Perrie**
- 14:15-14:30 OMG *Boronia* (Rutaceae) is polyphyletic: coping with large well supported clades that contain few morphologically useful characters  
**Marco Duretto; Margaret Heslewood, Mike Bayly**
- 14:30-14:45 Taxonomic revision of the *Myosotis australis* group (Boraginaceae) in Australia, New Zealand and New Guinea  
**Heidi Meudt; Jessie Prebble, Michael Thorsen**
- 14:45-15:00 Treating *Tephrosia* (Fabaceae) for the eFlora of Australia: project progress and plans  
**Ryonen Butcher**
- 15:00-15:15 Plant traits for everyone – A proposal for a new multi-purpose minimum trait set  
**Russell Barrett; Hervé Sauquet**

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15:15-15:45

AFTERNOON TEA

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SESSION 7: BOTANICAL DIVERSITY AND UTILISATION

SESSION CHAIR: LARA SHEPHERD

- 15:45-16:00 Preliminary floristic patterns observed in the Kakadu sandstone flora  
**Peter Jobson; Jason Cantley, Angela MacDonnell, Chris Martine**
- 16:00-16:15 How many species of *Rottboelliinae* (Poaceae) are there in Australia?  
**Melodina Fabillo; Tanya Scharaschkin**
- 16:15-16:30 Archaeobotanical sense-making: an Australian archaeologist's journey with plants  
**Brit Asmussen**
- 16:30-16:45 Chasing duplicates beyond the century, across the world and throughout the vault: but mind the gaps  
**Austin Brown**
- 16:45-17:00 Checking it twice: an update on the National Species List (NSL)  
**Anna Monro; Brendan Lepschi, Anne Fuchs**

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17:00-17:05 Housekeeping

17:10-17:40 Queensland Herbarium Tour, starting from QUEENSLAND HERBARIUM foyer

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18:30

CONFERENCE DINNER

18:30 ASBS Conference Dinner at the BOTANIC GARDENS FUNCTION CENTRE,  
Brisbane Botanic Gardens Mt Coot-tha, Toowong.

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THURSDAY 6 DECEMBER 2018

AUDITORIUM (BOTANIC GARDENS)

8:30-8:45 Housekeeping

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SESSION 8: INFORMED DECISION MAKING – CONSERVATION GENETICS OF THREATENED  
FLORA

SESSION CHAIR: HERVÉ SAUQUET

8:45-9:30 *Plenary Address*: Conservation of Australian Plants with a focus on northern Australia  
especially Queensland  
**Alison Shapcott**

9:30-9:45 *Reedia spathacea* F.Muell.: Phylogeography and population structure  
**Jessica Bruce\***; Annette Koenders, Kristina Lemson, Quinton Burnham, Margaret Byrne,  
Pierre Horwitz

9:45-10:00 Conservation genetics of threatened native olives (genus *Notelaea*) in southern Queensland  
**Chapa Manawaduge\***; Matthew Phillips, Susan Fuller

10:00-10:15 How did it go? A genetic analysis of the *Gossia gonoclada* recovery program  
**Laura Simmons**; Tamara K. Taylor

10:15-10:30 Congruent geographic structuring in *Macrozamia* and their pollinating thrips  
**Alicia Toon**; Lyn Cook

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10:30-11:00

MORNING TEA

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SESSION 9: PHYLOGENETIC AND TAXONOMIC PROGRESS 3

SESSION CHAIR: SUSAN RUTHERFORD

11:00-11:15 The evolution and biogeography of Australian Asparagales  
**Joanne Birch**; Daniel Murphy, Neville Walsh, John Conran, Terry Macfarlane, J. Chris Pires,  
Bee Gunn

11:15-11:30 Using phylogenetics to investigate continental, biome and habitat shifts and radiations in  
*Phlegmariurus* (Lycopodiaceae)  
**Ashley R. Field**; Thaís Elias Almeida, Lucie Bauret, Weston Testo

11:30-11:45 Australasian orchid diversification in space and time: phylogenetic insights from  
*Dendrobiinae* (Orchidaceae)  
**Katharina Nargar**; Claire Micheneau, Kamolpat Atsawawaranunt, Lars Nauheimer, Mark A.  
Clements

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SESSION 10: INFORMATION GAPS IN THE AGE OF GENOMICS 1

SESSION CHAIR: TODD MCLAY

- 11:45-12:30 Genomics for Australian plants: developing genomic resources for the Australian plant community  
Linda Broadhurst, **Margaret Byrne**, David Cantrill, **Darren Crayn**, Anna Fitzgerald, Graham King, Jen Taylor, Mabel Lum (The Steering Committee and project management on behalf of the Genomics for Australian Plants Consortium)

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12:30-13:30

LUNCH

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SESSION 11: INFORMATION GAPS IN THE AGE OF GENOMICS 2

SESSION CHAIR: JO BIRCH

- 13:30-14:00 Evolution of *Oryza* as Revealed by Genomics  
**Robert Henry**
- 14:00-14:15 A hybrid-enrichment bait capture kit for *Hibisceae*, trialled on Australian *Hibiscus* section *Panduriformes*  
**Todd McLay**; Mike Bayly, Jennifer Tate, Sarah Mathews
- 14:15-14:30 Phylogenomics of Australian *Gnaphalieae* (Asteraceae) using target enrichment  
**Alexander Schmidt-Lebuhn**; Jess Bovill, Ian Lester
- 14:30-14:45 Using sequence capture to infer gymnosperm phylogeny  
**Nathalie Nagalingum**; Lorena Endara, Steffi Ickert-Bond, Gordon Burleigh
- 14:45-15:00 Resolving complex evolutionary relationships in the sun orchids (*Thelymitra*, Orchidaceae) – insights through molecular phylogenetics and phylogenomics  
**Lars Nauheimer**
- 15:00-15:30 Conservation genomics for taxon delimitation and management of rare and threatened plants  
**Margaret Byrne**; Rachel Binks, Carol Wilkins, Donna Bradbury, Adrienne Markey

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15:30-16:00

AFTERNOON TEA

- 16:00-16:30 Conference Summation and Presentation of Student Prizes
- 16:30-16:40 Next ASBS conference presentation
- 16:40-17:00 Conference Close

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FRIDAY 7 DECEMBER 2018

MEET AT FRONT OF HERBARIUM

- 7:00-18:30 Field trip to Springbrook  
Departing from and returning to QUEENSLAND HERBARIUM