



20th Australasian Bat Society Conference & AGM

QUT Gardens Point Campus,
Brisbane, Queensland, Australia
11th – 13th April 2022



Program



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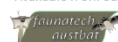
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20th Australasian Bat Society Conference

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Brisbane, Queensland, Australia
11th - 13th April 2022

Organising Committee

Stuart Parsons, Julie Broken-Brow, Greg Ford, Leroy Gonsalves, Vanessa Gorecki, Joanna Haddock, Lindy Lumsden and Kristen Thompson

Acknowledgements

The Organising Committee would like to thank the following people for their assistance with various components of the conference:

- Oli Aylen, Greg Ford, Vanessa Gorecki and Liz Williams for assistance with organising and running the field trip.
- Annabel Dorrestein, Ariana Ananda and Monika Rhodes for assistance with organising the fundraising auction and bat quiz.
- Carolyn O'Neill for assistance with organising the Norman Creek paddle.

Sponsors

Platinum:	Balance! Environmental Titley Scientific Wildlife Acoustics
Gold:	GTEK Infrared
Silver:	Swale Hydraulics Pty. Ltd
Bronze:	Wildlife Drones

Awards

Student awards have been generously donated by EcoAerial Environmental Services (Rob Gration), Titley Scientific, and Wildlife Acoustics.

Maps – Conference Venues

The venue for the conference will be Room360, atop one of QUT's tallest buildings. The room has amazing views over Brisbane and is easily accessible by all. The registration desk, presentations, poster session, trade tables, lunches, morning/afternoon teas will all be held at this venue.

QUT Gardens Point Campus



Social Activities

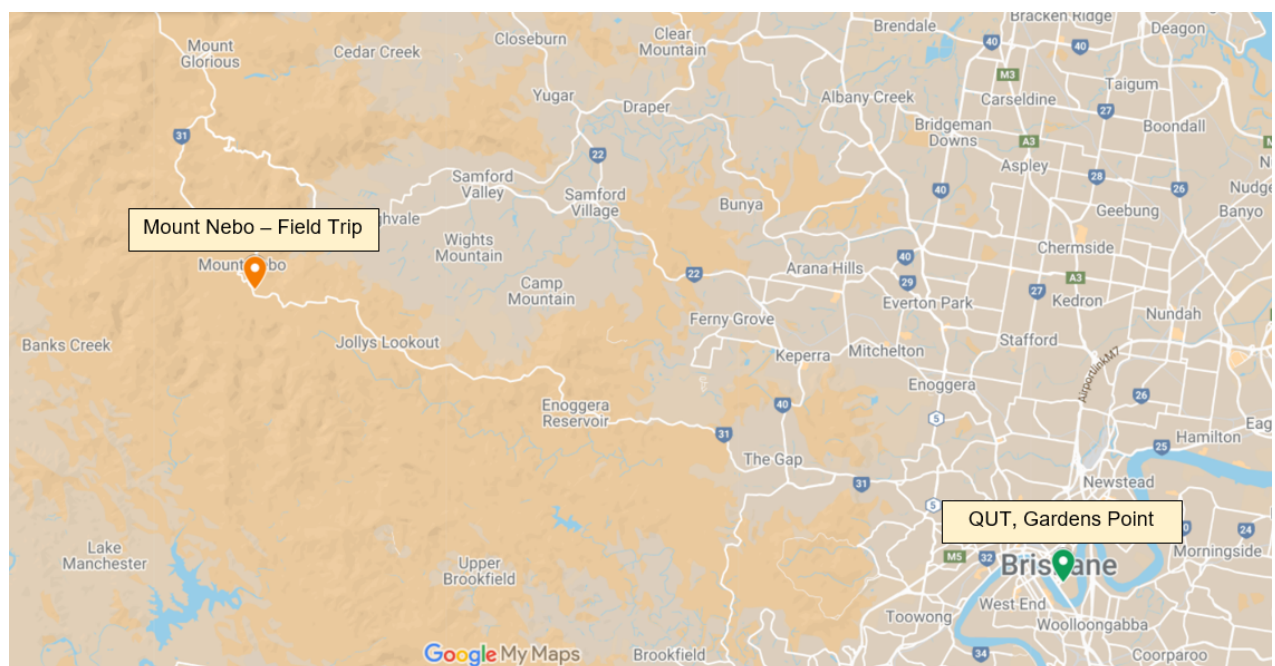
Pre-conference Field Trip - Mount Nebo, Brisbane – Saturday April 9th

The Conference Field Trip will take place on the evening of Saturday 9th April, which is the weekend before the conference commences rather than the usual end-of-conference field trip. We will provide return transport for those that have requested it from Brisbane city for the evening (i.e., no overnight stay in the field), so you can just book an extra night at your chosen accommodation for the entire conference duration.

We will be batting in the beautiful D'Aguilar Range, right in Brisbane's backyard, with a range of sub-tropical rainforest and sclerophyll forest types to survey. Our all-weather field trip base will be the Mt Nebo community hall, where participants will enjoy a fully catered dinner for those who have requested it (BYO drinks) in between setting and clearing traps.

Those who have registered for transport via bus, please meet at Bus Stop #95, Alice Street by 1:45 pm at the latest (for a 2 pm departure). The return bus trip will drop delegates off at the same bus stop at the end of the trip. We will be departing from Mount Nebo around midnight. The bus trip will take approximately 1 hour each way.

Pre-conference Field Trip Bus Stop



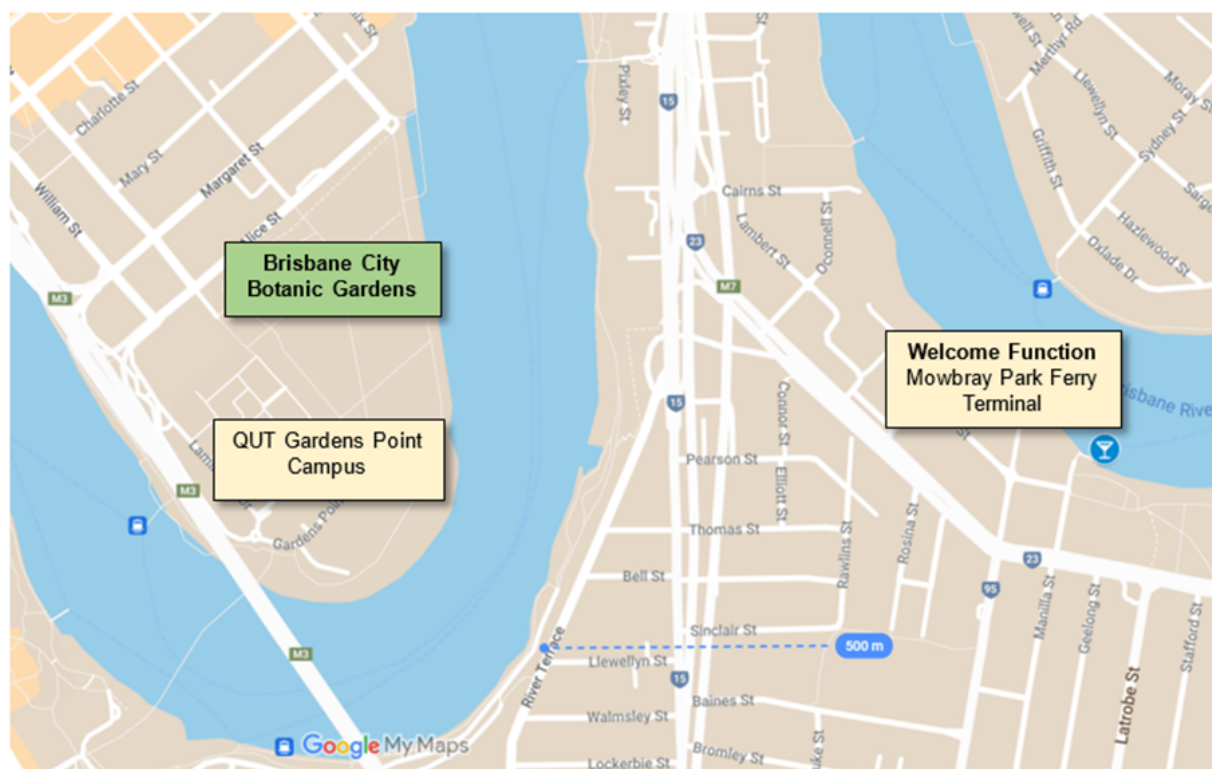
Welcoming Function – Sunday April 10th Departs 4.45 – 6:45 pm (Please arrive at the dock 30 min prior to departure).

The Welcome Function will be held on Sunday evening, 10 April 2022, on the Lady Brisbane. As you cruise down the Brisbane River, watch the fly-out from Norman Creek, one of Brisbane's largest flying-fox colonies. On the cruise, you will be able to purchase soft drinks and a range of alcoholic drinks. A range of finger food will be provided. This is a great opportunity to catch up with colleagues and friends from the ABS community or meet new people from across the region.

Your registration pack will be available for collection at this function.

The cruise will depart from Mowbray Park, on the corner of Park Avenue and Lytton Rd, East Brisbane (100 metres downstream from Mowbray Park City Cat terminal). Please note that the CityCat Ferries, normally the easiest way to get to the Mowbray Park from the city, are not running due to the recent floods. We suggest you car-pool or Uber to Mowbray Park.

Welcome Function – 100 m east of Mowbray Park Ferry Terminal



Conference Dinner & Auction – Wednesday April 13th, 6:30 – 10 pm

The Conference Dinner will be held in the Foyer of Gardens Theatre, next door to Room360. Dinner will consist of a three-course sit-down meal and a cash bar.

A live and silent auction will be held during the conference dinner to raise funds for travel grants for the next ABS conference. Please bring items to contribute to the auction and leave them at the registration desk during the first day of talks. Then during the conference dinner, join in the bidding at this worthwhile fundraising event!

Norman Creek Guided Canoe Trip – Monday April 11th/Tuesday April 10th, 4:45 – 7 pm.

Brisbane City Council, in partnership with Paddle Queensland, will be hosting a canoe trip down Norman Creek in Brisbane's inner east to view the local flying-fox colony. This is a wonderful way to engage with the bats in their own habitat while being very unobtrusive on the water. Group size for the event is limited to no more than 14 on each night due to canoe limits and reduced wildlife disturbance concerns. Instructions on how to sign up have already been sent to those who indicated interest during registration. Registered participants must be at Heath Park, 48 Hilton Street, East Brisbane by 4:45 pm. Paddle is 5:00 – 7:00 pm. The cost of the trip is \$50, and registered participants should pay at the conference registration desk on Monday 11 April.

Norman Creek Guided Canoe Trip



PROGRAM

Saturday 9 th April 2022	
20 th Australasian Bat Society Conference	
Queensland University of Technology, Gardens Point Campus, Brisbane	
14:00 – 23:59	Mount Nebo Field Trip
	<i>Bus departs from Bus Stop #95, Alice Street. Participants returned to same bus stop at the end of trip.</i>
Sunday 10 th April 2022	
20 th Australasian Bat Society Conference	
Queensland University of Technology, Gardens Point Campus, Brisbane	
16:45 – 18:45	Welcome Function Boat Cruise (Please arrive at the dock 30 min prior to departure)
	<i>The boat departs from Mowbray Park (100 m downstream from the Mowbray Park City Cat Terminal). Please note that the CityCat Ferries, normally the easiest way to get to Mowbray Park from the city, are not running due to the recent floods. We suggest you car-pool or Uber to Mowbray Park.</i>

Monday 11 th April 2022	
20 th Australasian Bat Society Conference	
Queensland University of Technology, Gardens Point Campus, Brisbane	
08:00 – 09:00	Registration - Registration desk opens and pre-conference coffee and tea
09:00	Conference opening and welcome
09:10	Welcome to Country
09:20	Notices and updates
Session 1: Bat Biology – Chair Justin Welbergen	
09:30	Universality of torpor expression in bats <i>Mari Aas Fjellidal et al. (Presented by Clare Stawski)</i>
09:45	Cleft palate syndrome in the endangered spectacled flying fox <i>Lee McMichael et al.</i>
10:00	Genetic variability in a critically small population of South-eastern Long-eared Bats <i>Nyctophilus corbeni</i> in Victoria <i>Lindy Lumsden et al.</i>
10:15	Torpor in a flying-fox: bio-logging reveals a new mechanism for energy-savings by the world's largest bats <i>Christopher Turbill et al.</i>
10:30-11:00 AM	Morning Tea
Session 2: Bat Biology and Urban Ecology – Chair Annabel Dorrestein	
11:00	Speed Talk: Disease surveillance of Melanesian bats utilizing museum specimens* <i>Alison Hoeger et al.</i>

11:05	Speed Talk: Microclimate characteristics of spectacled flying foxes urban roosts and relative bat temperature using thermal imaging in Cairns* <i>Camila Madeira Tavares Lopes</i>
11:10	Speed Talk: Australian Bat Lyssavirus surveillance in non-<i>Pteropus</i> bats* <i>Alison Hoeger et al.</i>
11:15	Speed Talk: The insectivorous microbats of Adelaide City* <i>Harry Rust</i>
11:20	Braving the storms ahead: is microbat reproduction a good bioindicator for climate change?* <i>Danielle L. Eastick et al.</i>
11:35	Pregnancy testing in bats: A case study on Southern Bent-wing Bats (<i>Miniopterus orianae bassanii</i>)* <i>Nicola Bail et al.</i>
11:50	Multi-scale factors influencing bat box usage in urban reserves* <i>Elsa Kohane et al.</i>
12:05	Seasonal residency in a microbat community at a montane forest site* <i>Amy Rowles et al.</i>
12:20-13:30 PM	Lunch
Session 3: Urban Ecology and Bat Monitoring – Chair Clare Stawski	
13:30	Urban-roosting flying-foxes preferentially visit human-modified landscapes for foraging, but what is on the menu?* <i>Samantha H. Yabsley</i>
13:45	Can insectivorous bats be used as an indicator for monitoring urban bushland restoration?* <i>Kristen Thompson et al.</i>
14:00	What strategies is Gould's wattled bat using to cope with city living? <i>Caragh Threlfall et al.</i>
14:15	Trials of passive bat tracking and monitoring techniques <i>Paul Clissold</i>
14:30	How far will a bat fly? GPS tracking of fine-scale movements by the threatened South-eastern Long-eared Bat, <i>Nyctophilus corbeni</i> <i>Leroy Gonsalves et al.</i>
14:45	Where do bats go when excluded? - Learnings from a large scale exclusion of Balickera Tunnel <i>Alicia Scanlon et al.</i>
15:00 – 15:30	Afternoon Tea
15:30	Titley Scientific Workshop (in Room360)
16:15	End Day 1
16:45	Norman Creek Canoe Trip #1 (Please be at Heath Park, 48 Hilton Street, East Brisbane by this time). Paddle is 17:00 – 19:00.

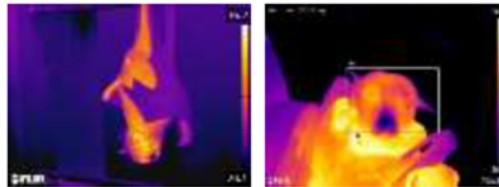
Tuesday 12 th April 2022	
20 th Australasian Bat Society Conference	
Queensland University of Technology, Gardens Point Campus, Brisbane	
08:00 – 09:00	Registration - Registration desk opens and pre-conference coffee and tea
09:00	Notices and updates
Session 4: Online Talk Session – Chairs Stuart Parsons, Kristen Thompson	
09:05	Speed Talk: Fissure-type cavities carved into live trees as supplementary roosts for bats need monitoring and maintenance or can quickly become unusable <i>Stephen Griffiths et al.</i>
09:10	Speed Talk: Low rates of PIT-tag loss in an insectivorous bat species <i>Emmi van Harten et al.</i>
09:15	Speed Talk: Microbat management guidelines for transport infrastructure projects in NSW <i>Kris Le Mottee et al.</i>
09:20	Speed Talk: Abundances of flying-foxes at roosts linked to past patterns of vegetation greenness <i>Pia Lentini et al.</i>
09:25	Speed Talk: Towards a concerted management of flying-foxes in the Northern Province of New Caledonia <i>Malik Oedin</i>
09:30	Assessing the effects of underground roost characteristics and habitat context on bat swarming and autumn activity* <i>Tomás Villada-Cadavid et al.</i>
09:45	GPS tracking reveals long distance foraging flights of Southern Bent-wing Bats in an agricultural landscape* <i>Amanda Bush et al.</i>
10:00	Extensive gene flow in the threatened bat (<i>Rhinonictes aurantia</i>) in an arid landscape <i>Linette Umbrello et al.</i>
10:15	Australian Bat Biogeography Web Application <i>Damian Milne</i>
10:30 – 11:00	Morning Tea
Session 5: Bats in Highly Dynamic Landscapes – Chair Kyle Armstrong	
11:00	Wind Turbines kill bats, but they don't have to <i>Emma Bennett</i>
11:15	Impacts of the 2019-20 mega-fires on a rainforest dependent species – the Golden-tipped Bat <i>Phoniscus papuensis</i> <i>George Madani et al.</i>
11:30	National flying-fox monitoring programming: What's happened to Grey-headed flying-fox numbers since the bushfires? <i>Adam McKeown et al.</i>
11:45	How do bats respond to mechanical forest fuel reduction and burning? <i>Leroy Gonsalves et al.</i>
12:00	Does context matter? Microbat distributions in fragmented, fire-prone landscapes <i>Amanda Lo Cascio et al.</i>

12:15	What were the effects of the 2019-2020 mega-fires on insectivorous bats? <i>Brad Law et al.</i>
12:30 – 14:00	Lunch
13:15 – 14:00	Wildlife Acoustics Workshop (in Room360)
Session 6: Monitoring Bats – Chair Danielle Eastick	
14:00	Bat population monitoring at Naracoorte caves using near-infrared video <i>Paul Clissold et al.</i>
14:15	Whose scat is that? Using genomic DNA and hormone metabolites in guano to monitor population dynamics of a colony of Pilbara leaf-nosed bat (<i>Rhinioncteris aurantia</i>) <i>Kyle N. Armstrong et al. (Presented by Erin Westerhuis)</i>
14:30	Using weather radar to monitor flying-foxes <i>Jessica Meade et al.</i>
14:45	Monitoring biodiversity in cotton landscapes - an automated system using bespoke hardware with embedded machine learning <i>Stuart Parsons et al.</i>
15:00 - 15:30	Afternoon Tea
15:30	Australasian Bat Society AGM (in Room360)
17:30	End Day 2
16:45	Norman Creek Canoe Trip #2 (Please be at Heath Park, 48 Hilton Street, East Brisbane by this time). Paddle is 17:00 – 19:00.

Wednesday 13th April 2022 20th Australasian Bat Society Conference <i>Queensland University of Technology, Gardens Point Campus, Brisbane</i>	
08:00 – 09:00	Registration - Registration desk opens and pre-conference coffee and tea
09:00	Notices and updates
Session 7: Bat Ecology and Roosting Ecology – Chair Caragh Threlfall	
09:10	Speed Talk: Testing the preferences of bats to a range of artificial roosting habitats <i>Alicia Scanlon et al.</i>
09:15	Speed Talk: Brisbane bat bonanza: Microbats and abandoned mines in the Brisbane area <i>Elizabeth Williams</i>
09:20	Speed Talk: Successful creation of replacement roosting habitat for Little / Large Bent-winged Bats and Southern Myotis <i>Alicia Scanlon et al.</i>
09:25	Speed Talk: Do echolocating bats benefit from habitat connectivity corridors: a case study from the Australian Wet Tropics <i>Greg Ford et al.</i>
09:30	Speed Talk: Bring back the bats <i>Ian Eddison</i>
09:35	Speed Talk: Declines of winter roosts for the Large Bent-winged Bat (<i>Miniopterus orianae oceanensis</i>) in Sydney <i>Julia Ryeland et al.</i>
09:40	Social structure across the roost sites of the Christmas Island flying-fox <i>Annabel Dorrestein et al.</i>
09:55	Population structure and gene flow among culvert roosts of the trawling bat, the large-footed Myotis <i>Myotis macropus</i> <i>Vanessa Gorecki et al.</i>
10:10	A new horseshoe bat (<i>Rhinolophus sp.</i>) from Australia's Wet Tropics region <i>Greg Ford et al.</i>
10:25 – 11:00	Morning Tea
Session 8: Initiatives in Bat Conservation – Chair Leroy Gonsalves	
11:00	Presence of multiple herpesvirus variants in Australian flying foxes (<i>Pteropus spp.</i>)* <i>Jennifer Sullivan et al.</i>
11:15	We work in secret, we exist in shadow...: how opportunities from environmental impact assessments have advanced understanding of wildlife in Papua New Guinea <i>Kyle Armstrong</i>
11:30	Keeping White-nose syndrome out of Australia <i>Yvonne Ingeme et al.</i>
11:45	Validation of non-invasive hormone analysis techniques to assist in the identification of maternal cave sites of ghost bats (<i>Macroderma gigas</i>) in the Pilbara <i>Tamara Keeley et al.</i>

12:00	Exploring the mechanisms of zoonotic pathogen spillover from a bat reservoir host: A study of Hendra virus in subtropical Australia <i>Peggy Eby et al.</i>
12:15	Flying fox paralysis syndrome: A report on repeat events over two summers <i>Alison J. Peel et al.</i>
12:30 – 13:30	Lunch
Session 9: Initiatives in Bat Conservation (cont.) – Chair Peggy Eby	
13:30	Land use, season, and parasitism predict metal concentrations in Australian flying fox fur <i>Cecilia A. Sánchez et al.</i>
13:45	Vulnerability of Australian bats to white-nose syndrome – catastrophic fungal disease <i>Nicholas C. Wu et al.</i>
14:00	Bats of Oz (BoOZ): a TERN supported research-infrastructure program for the study of Australian bats <i>Simon Robson et al.</i>
14:15	Recovering the Spectacled Flying-fox <i>Sera Steves, Maree Treadwell Kerr et al.</i>
14:30	How bat heads are tweaked for peak squeak <i>Kyle N. Armstrong et al.</i>
14:45	How emerging technologies can improve the conservation and management of the grey-headed flying fox <i>Justin A. Welbergen et al.</i>
15:00 – 16:00	Afternoon Tea + Posters
Session 10: Poster Session	
	1. Mitigating the impact of barbed wire using wildlife rescue data – Jasmine Vink et al. 2. Symptoms of paralysis syndrome in flying foxes – Jasmine Vink 3. Grey-Headed Flying-fox travel patterns reinforce need for nationally coordinated activity under the species' National Recovery Plan – Amanda Davis* 4. Activity patterns for <i>Chalinolobus dwyeri</i> in an urban-bushland interface at Pearl Beach, NSW Central Coast – Leroy Gonsalves et al. 5. The Great Australian Bat Tourism Trail – Sera Steves, Maree Treadwell Kerr et al.
16:00	Student Awards and closing comments
16:30	End Day 3
18:30 – 22:00	Conference dinner, quiz, and auctions (The Foyer, Gardens Theatre)

* Student Presentations



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