

# ANZSCPB Conference

University of the Sunshine Coast

12-14<sup>th</sup> December 2025



## Sponsored By:



## DETAILS

- All oral talks will be 12 minutes plus 3 minutes for questions
- Please bring your talk on a USB, such that we can upload these prior to your session
- Poster boards and pins will be available Saturday morning.

## VENUES

- **Meeting** will be held in Lecture theatre 4 - Located on the Ground level of Building I - Faculty of Science, Health, Education and Engineering, UniSC, Sippy Downs Campus
- **Welcome Reception** will be held Friday 6PM at Brightwater Tavern, 15 Freshwater St, Mountain Creek
- **Conference Dinner** will be held Saturday 5:30PM at Ten Toes Brewery, Unit 4/127A Sugar Rd, Alexandra Headland

## **Conference Organizers:**

Christofer Clemente, University of the Sunshine Coast, cclement@usc.edu.au  
Taylor Dick, University of Queensland, t.dick@uq.edu.au

<b>Friday December 12th</b>	
<b>1800</b>	Welcome Reception - 6PM at Brightwater Tavern, 15 Freshwater St, Mountain Creek
<b>Saturday December 13th</b>	
<b>900</b>	Welcome
<b>905</b>	<b>KEYNOTE - Dr. Essie Rodgers</b> — Saving Species with Science: How Physiology Can Future-Proof Conservation and Aquaculture (Murdoch University)
<b>945</b>	<i>Understanding the Adaptations of Threatened Sand Yabbies to Extreme Acidity</i> – Grace Smith (University of the Sunshine Coast)
<b>1000</b>	<i>Fur the record: from arctic thick to desert slick – how fox coats vary with climate</i> – Kelsey Graham (University of Melbourne)
<b>1015</b>	<i>Too Hot to Fly, Too Cold to Buzz: How Jewel Beetles Handle Australia's Climates</i> – Avichal Tatu (University of Melbourne)
<b>1030</b>	<i>Climate change and the cost-of-living squeeze in desert lizards</i> – Kristoffer Wild (University of Melbourne)
<b>1045-1115</b>	<b>morning tea</b>
<b>1115</b>	<i>Conversion efficiency of flight power in the migratory bat Natusius' pipistrelle</i> – Shannon E. Currie (University of Melbourne)
<b>1130</b>	<i>Implications of motor unit recruitment strategies on energetics of skeletal muscle contraction</i> – Ryan Konno (The University of Queensland)
<b>1145</b>	<i>Testing metabolic and life history theory</i> – Craig White (Monash University)
<b>1200</b>	<i>Impact of reproductive state on energy expenditure of an arboreal marsupial</i> – Clare Stawski (University of the Sunshine Coast)
<b>1215</b>	<i>Still on about the endothermies of birds and mammals having common ancestry</i> – Gordon Grigg (University of Queensland)
<b>1230-1330</b>	<b>lunch + posters</b>
<b>1330</b>	<i>The timing of embryonic skeletal calcification in the seahorse Hippocampus abdominalis</i> – Arda Poda (The University of Sydney)
<b>1345</b>	<i>Winter energetics and evaporative water loss of bridge-roosting Myotis in Australia: biophysical model, climate change, and conservation implications</i> – Sanjeev Baniya (University of New England)
<b>1400</b>	<i>Effect of a helox atmosphere on the thermal, metabolic and hygric physiology of the scincid lizard Egernia kingii</i> – Christine Cooper (Curtin University)
<b>1415</b>	<i>Understanding the bioenergetic processes that may contribute to cardiac mitochondrial failure at high environmental temperatures in cold-temperate Banded wrasse and tropical parrot fish</i> – Alice Harford (University of Queensland)
<b>1430</b>	<i>Peptide hormone discovery in the ornate spiny lobster, Panulirus ornatus: A multi-omics and functional analysis</i> – Susan Glendinning (University of the Sunshine Coast)
<b>1445-1515</b>	<b>afternoon tea</b>
<b>1515-1600</b>	<b>KEYNOTE - Professor Phil Withers</b> - Surfing the Wave of Technology in Comparative and Animal Physiology (University of Western Australia)
<b>1600</b>	day concludes
<b>1730</b>	Conference Dinner 5:30 pm at Ten Toes Brewery, Unit 4/127A Sugar Rd, Alexandra Headland

<b>Sunday December 14th</b>	
<b>900</b>	<b>KEYNOTE - Dr. Blake Dickson</b> — The Functional Anatomy and Biomechanics of Arboreality in Primates and Marsupials (University of New South Wales)
<b>945</b>	<i>Human Trajectory Mapping in Ecological Contexts: A framework for Reliable Space-Time Localization</i> – Raimundo Sanchez (The University of Queensland)
<b>1000</b>	<i>Toe clearance in ratite birds</i> – Pasha van Bijlert (Utrecht University / Naturalis Biodiversity Center)
<b>1015</b>	<i>Using predictive musculoskeletal simulations to explore the effect of exoskeletons on locomotion in altered gravity</i> – Ioana Oprescu (The University of Queensland)

1030	<i>From Biology to Robotics and Back - Using Bioinspired Robotics to Test Biological Hypothesis – Robin Maag (University of the Sunshine Coast)</i>
1030-1115	<b>morning tea</b>
1115	<i>Stressed Out Bats: Developing Tools to Monitor Physiological Stress in Three Insectivorous Species – Robin Rowland (University of the Sunshine Coast)</i>
1130	<i>Thermal niche separation of solitary bees and their parasitoid associate – Sean Tomlinson (Curtin University)</i>
1145	<i>Evaporative water loss of the Motorbike Frog (<i>Ranoidea moorei</i>) – Philip Withers (University of Western Australia)</i>
1200	<i>Fire and Flood: Assessing the physiological impacts of wildfire and associated runoff on aquatic fauna – Craig Franklin (The University of Queensland)</i>
1215	<i>Same bats, different heat – Ruvinda de Mel (University of New England)</i>
1230-1330	<b>lunch</b>
1330	<i>Control of foregut contractions of the cricket – Paul Cooper (Australian National University)</i>
1345	<i>Effect of Body Size on Vectorial Dynamic Body Acceleration Energy-use Estimates – Oakleigh Wilson (University of the Sunshine Coast)</i>
1400	<i>Computing fine-scale behaviour and refuge-dependency in birds under heat stress – Michael Kearney (University of Melbourne)</i>
1415	<i>Does metabolic rate set the pace of life? Testing metabolic theory with experimental evolution – Lesley Alton (Monash University)</i>
1430	<i>Connecting Ecology, Thermal Physiology, and Biophysical Modelling for Conservation – Zenon Czenze (University of New England)</i>
1445-1515	<b>afternoon tea</b>
1515	AGM + awards + JEB
1545-1645	Workshop: IMU data for energetics, behaviour and movement ecology
1645	Meeting concludes

## POSTERS

p1	<i>Thermal Ecology of Endangered Greater Gliders: Understanding Physiological Responses to Climate Change – Katrina Koutsellis (University of the Sunshine Coast)</i>
p3	<i>Non-Invasive Estimates of Musculoskeletal Forces Using Ultra-Wideband (UWB) Radar – Chris Bird (The University of Queensland)</i>
p3	<i>Hot in the City: How Warming Winters Influence Hibernation Patterns of European Hedgehogs Across an Urban Matrix – Leonie Neubauer (University of Hamburg)</i>
p4	<i>Thermal Physiology of Urban Insectivorous Bats in Different Roosts – Kheva Walker (University of the Sunshine Coast)</i>
p5	<i>Roosting in a Warmer World: Quantifying Roost Microclimates to Forecast Flying-Fox Heat Stress – Samantha Ross (University of the Sunshine Coast)</i>
p6	<i>Exploring the Influence of Ankle Exoskeleton-Mediated Gait Perturbations on Lower-Limb Mechanical Energetics and Neuromuscular Control – Angus Cottrell (The University of Queensland)</i>
p7	<i>Influence of body Center of mass in obstacle negotiation in lizards - Finn Rogendorf (University of Bremen)</i>
p8	<i>Missing Terms in the Heat Balance of Flying Animals - Adam Reade (The University of Melbourne)</i>
p9	<i>Does Skippy actually skip? Understanding gait modulation in free-roaming kangaroos - Jasmin Annett (University of the Sunshine Coast)</i>
p10	<i>The impact of climate change and what animals can do to mitigate: purple-crowned fairy-wrens - Thaddeus Pev (Monash University)</i>





