



# Conference Program AWMS2021

(This program may be subject to change, times/dates are current Canberra, Australia time/date)

|              | Tuesday 7 Dec  | Wednesday 8 Dec   | Thursday 9 Dec  |  |
|--------------|--|---|---|--|
| <b>8:30</b>  | Housekeeping   | Housekeeping  | Housekeeping  |  |
| 8:35         | <b>Welcome to Country by Roslyn Brown</b>  | <b>Rebecca Vassarotti</b><br>ACT Minister for the Environment   | <b>Carolyn Hogg</b><br>Conservation genomics and the Age of Extinction  |  |
| 8:40         |  |   |   |  |
| <b>8:45</b>  | <b>Address by AWMS Acting President Thomas Newsome</b>   | <b>Hilton Taylor</b><br>The management of water resources for the environment in a changing climate   |   | <b>Linda Neaves</b><br>The past, present, and future of genetics and genomics in management.                         |
| 8:50         |  |   |   |  |
| 8:55         |  |   | <b>Dr. Paddy Nixon</b><br>University of Canberra Vice Chancellor  |  |
| <b>9:00</b>  | <b>Keynote</b><br><b>Prof Mark Howden</b><br>Climate change: an update on trends and prospects for future change | <b>Mathew Coleman</b><br>Climate adaptation in the Murray–Darling Basin   | <b>Kevin Oh</b><br>Evaluation of SNP genotyping approaches to support management of feral house mice in Australian cropping systems |  |
| 9:05         |  |   |   |  |
| 9:10         |  |   |   |  |
| <b>9:15</b>  |  |   |   |  |
| 9:20         |  |   |   |  |
| 9:25         |  |   |   |  |
| <b>9:30</b>  |  | <b>Lee Baumgartner</b><br>Fish Screens Australia - a catalytic program to drive the adoption of modern fish protection screens in Australia | <b>Bernd Gruber</b><br>The use of genomic simulations to estimate effective population size   |  |
| 9:35         |  |   |   |  |
| 9:40         |  |   |   |  |
| <b>9:45</b>  |  |   | <b>Heather McGinness</b><br>Climate change, water and waterbirds  | <b>Susan Campbell</b><br>Conditions for investment in genetic biocontrol for pest vertebrate management in Australia |
| 9:50         |  |   |   |  |
| 9:55         |  |   |   |  |
| <b>10:00</b> | Morning tea  | Morning tea   | Morning tea   |  |


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 Climate Change, Water and Wildlife Management

 New Genomic Approaches to Managing Wildlife Management

|       | Tuesday 7 Dec   | Wednesday 8 Dec   | Thursday 9 Dec   |
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| 10:25 | <b>Bob Debus</b><br>The Great Eastern Ranges Initiative: A large scale response to recover landscapes for wildlife  | <b>Peter Caley</b><br>Modelling trends in waterbird populations across eastern Australia  | <b>Scarlett Li-Williams</b><br>Rusa deer population genetics structure in the Illawarra (NSW) and implications for management                            |
| 10:30 |   |   |  |
| 10:35 |   |   |  |
| 10:40 | <b>Jennifer Pierson</b><br>Building a climate change adaptation strategy for Australian Wildlife Conservancy  | <b>Christopher O'Bryan</b><br>Unrecognized threat to global soil carbon by wild pigs ( <i>Sus scrofa</i> )  | <b>Emily Stringer</b><br>Temporal changes in genetic structure under variable climate conditions: rodents in the desert                                  |
| 10:45 |   |   |  |
| 10:50 |   |   |  |
| 10:55 | <b>Kate Fitzherbert</b><br>Managing landscapes in a changing climate  | <b>Fiona Fraser</b><br><b>Acting Threatened Species Commissioner</b><br>Overview of the Australian government's new Threatened Species Strategy 2021-2031   | <b>Stephen Sarre</b><br>Using genotype by sequencing to detect the direction of dispersal into and out of contact zones: the case of New Zealand possums |
| 11:00 |   |   |  |
| 11:05 |   |   |  |
| 11:10 | <b>Stephanie Stuart</b><br>Conservation prioritisation to secure the evolutionary heritage of NSW   | <b>Nikki van de Weyer</b><br>Why it's important to choose your neighbour: combining spatial capture-recapture models and kinship analysis to study social structures of female house mouse in Australian cropping systems | <b>Brittany Brockett</b><br>Mixing it up in a multi-source reintroduction: how to monitor establishment and persistence                                  |
| 11:15 |   |   |  |
| 11:20 |   |   |  |
| 11:25 | <b>Rosie Cooney</b><br>Securing species in a time of climate change: an ACT pilot project   | <b>Peter Brown</b><br>Forecasting and management of mouse plagues in Australia  | <b>Aline Gibson Vega</b><br>Grasswren song dialects: implications for translocation harvest and release  |
| 11:30 |   |   |  |
| 11:35 |   |   |  |
| 11:40 | <b>Trade Exhibitor and Sponsor talks</b>  | <b>Tracey Kreplins</b><br>Managing wild dogs across large landscapes with poison baits  | <b>Frances Carleton</b><br>Mental Health in wildlife workers and volunteers  |
| 11:45 |   |   |  |
| 11:50 |   |   |  |
| 11:55 | <b>Kristoffer Wild</b><br>Dispersal, fitness-related traits, and rates of sex-reversal imply that a genetic sex determining system with reversal is evolutionarily stable in a free-ranging lizard. | <b>Yolandi Vermaak</b><br>Breaking the mould on population treatment for wombats with mange   | <b>David Forsyth</b><br>Towards cost-effective management of deer in Australia   |
| 12:00 |   |   |  |
| 12:05 |   |   |  |
| 12:10 | <b>Lunch</b>  | <b>Lunch</b>  | <b>Stephen Jackson</b><br>A review of the methods used to trap wild deer in New South Wales and Queensland   |
| 12:15 |   |   |  |
| 12:20 |   |   |  |
| 12:25 | <b>Lunch</b>  | <b>Lunch</b>  | <b>Madelaine Castles</b><br>Using stock grazing to reduce buffel grass in critically endangered northern hairy-nosed wombat habitat                      |
| 12:30 |   |   |  |
| 12:35 |   |   |  |
| 12:40 | <b>Lunch</b>  | <b>Lunch</b>  | <b>Victoria Inman</b><br>Koala occupancy in post-bushfire landscapes in the Blue Mountains   |
| 12:45 |   |   |  |
| 12:50 |   |   |  |

 Managing Wildlife across Landscapes

 Climate Change, Water and Wildlife Management

 New Genomic Approaches to Managing Wildlife Management


 Open Session

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|-------|--|---|---|
| 13:00 | <b>Thomas Chen</b>   | <b>John Read</b>  | <b>Barry Howlett</b>  |
| 13:05 | Using camera trap imagery and state-of-the-art computer vision models for large wildlife management                                      | Introduction  | Co-operative management of wild deer in South-Eastern South Australia – Bringing together divergent motivations and shared objectives |
| 13:10 |  | <b>Glenn Wallace</b>  |   |
| 13:15 | <b>Tom Newsome</b>   | Macropod aerial surveys and cluster fences  | <b>Daniel Brown</b>   |
| 13:20 | Scavenging dynamics in the anthropocene  |   | Can ground shooting protect endangered Alpine peatlands from the impacts of introduced deer?  |
| 13:25 |  | <b>Evan Curtis</b>  |   |
| 13:30 | <b>Maree Treadwell</b>   | Improving the accuracy of aerial surveys for kangaroos  | <b>Stephanie Pulsford</b>   |
| 13:35 | Recovering the endangered Spectacled Flying-fox across landscapes of the wet tropics under a changing climate and lack of political will |   | A short history of deerly everything – how the ACT Government is controlling and measuring the impact of Sambar deer                  |
| 13:40 |  | <b>Mike Letnic</b>  |   |
| 13:45 | <b>Jordan Hampton</b>  | Is grazing by over-abundant native herbivores jeopardizing conservation goals   | <b>Graeme Finlayson</b>   |
| 13:50 | Climate change will intensify risks of harmful lead exposure in Australian ecosystems  |   | Recovering Australia's arid-zone ecosystems: Learning from continental-scale rabbit control experiments                               |
| 13:55 |  | <b>Steve McLeod</b>   |   |
| 14:00 | <b>Damber Bista</b>  | You can't manage what you can't measure: a rangeland drought planning tool to estimate the grazing pressure from unmanaged herbivores | <b>Sebastien Comte</b>  |
| 14:05 | Habitat specialists avoid disturbances, a case of red panda and the need for better landscape planning                                   |   | Cost-effectiveness of volunteer and professional ground-based shooting of sambar deer in Australia                                    |
| 14:10 |  | <b>Dennis King</b>  |   |
| 14:15 | <b>Tanille Rachinger</b>   | Factors influencing the future value and volume of kangaroo products in domestic and export markets                                   | <b>Grace Hornstra</b>   |
| 14:20 | Improving the management of elephants in Australia; transitioning from zoo to sanctuary  |   | Eradicating feral predators within Australia's largest fenced safe-haven  |
| 14:25 |  | <b>Melanie Edwards / George Wilson</b>  |   |
| 14:30 | <b>Steph Courtney-Jones</b>  | Kangaroos and carbon markets  |   |
| 14:35 | IDEAcology: Streamlining expert judgement to inform wildlife management.   |   |   |
|       | <b>Afternoon tea</b>   | <b>Afternoon tea</b>  | <b>Afternoon tea</b>  |

 Managing Wildlife across Landscapes

 Innovations in Kangaroo Management

 Land Manager and Practitioner Symposium


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| 15:00 | <b>Peter Marsack</b><br>Illustration for field guides – why bother?  | <b>Graeme Coulson</b><br>Evaluating translocation for management of land-locked grey kangaroos   | <b>Rebecca Cherubin</b><br>Comparing toxic bait types and their effects on non-target wildlife   |
| 15:05 |  |  | <b>Renee Brawata</b><br>Paintballing Wombats: Remote delivery of Bravecto to treat mange in common wombats   |
| 15:10 |  |  |  |
| 15:15 | <b>Dave Berman</b><br>Finally a feral horse density-impact function: So what do I do with it now?  | <b>Neal Finch</b><br>Regulatory Innovations for kangaroo management in Qld   | <b>Krista Shade</b><br>Gayini Nimmie-Caira: First Nations owned large-scale Cultural and ecological restoration on a private conservation property     |
| 15:20 |  |  |  |
| 15:25 |  |  |  |
| 15:30 | <b>Debbie Saunders</b><br>Breadcrumbs and bats: advances in drone radio-tracking capabilities across increasingly large landscapes                     | <b>Stuart Dawson</b><br>Kangaroo monitoring and management in Western Australia  | <b>Margarita Medina</b><br>Linking geographic distribution and economic impacts data for invasive species in Australia to inform management and policy |
| 15:35 |  |  |  |
| 15:40 |  |  |  |
| 15:45 | <b>Catherine Kelly</b><br>Jumping to conclusions? Cane toads as a model species for Asian black-spined toads in Australia                              | <b>Zohara Lucas</b><br>Seasonal breeding of the Eastern Grey Kangaroo provides opportunities for improved animal welfare in kangaroo management. | <b>Ben Allen</b><br>No evidence of mesopredator release inside cluster fences where dingoes have been eradicated                                       |
| 15:50 |  | <b>George Wilson</b><br>Innovations kangaroo management, including Indigenous involvement. Scope of a strategic review and opportunities         |  |
| 15:55 |  |  |  |
| 16:00 | <b>Lachlan Howell</b><br>Modelling genetic benefits and financial costs of integrating biobanking into the conservation breeding of managed marsupials | <b>George Wilson</b><br>Closing discussion – kangaroo management objectives and further investigations   | <b>Andrew Bengsen</b><br>Functional response and the effort: Outcomes relationship for aerial shooting of deer   |
| 16:05 |  |  |  |
| 16:10 |  |  |  |
| 16:15 | <b>Continued...</b>  | <b>Continued...</b>  | <b>Continued...</b>  |

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| 16:15 | <b>Tim Henderson</b><br>Spotted-tailed quoll detectability varies between targeted and non-targeted camera trap surveys   | Discussion - Innovations in kangaroo management | <b>Flavia Santamaria</b><br>Determining the impact of stressors on vulnerable koala populations: the pathway. |
| 16:20 | <b>Surendranie Cabral de Mel</b><br>Physiological stress response of Asian elephants ( <i>Elephas maximus</i> ) to aversive stimuli from an electronic training collar  |   |   |
| 16:25 | <b>Chantelle Derez</b><br>Females roam more: movement of resident and relocated 'nuisance' pythons post-release in urban Brisbane                                       |   |   |
| 16:30 | <b>Juan Scheun</b><br>Amphibian conservation: considering ambient temperature as an important driver of individual physiology and fitness                               | AWMS AGM  | Award Presentation and Closing Ceremony   |
| 16:35 | <b>Jade Harris</b><br>A comparison of rodent and meso-carnivore abundance and diversity during an extreme drought period compared to a wet pulse period in the Kalahari |   |   |
| 16:40 |   |   |   |
| 16:45 | <b>Lucas Rutin</b><br>Piscivorous waterbirds community composition and diversity in freshwater tributaries of Zambezi River, Namibia                                    |   |   |
| 16:50 |   |   |   |
| 16:55 |   |   |   |
| 17:00 |   |   |   |



Open Session



South African Wildlife Management Association



Innovations in Kangaroo Management

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