

Event program

University of Adelaide

13–15 April 2016



Government
of South Australia

Department of Environment,
Water and Natural Resources

Day 1 - Session 1

Wednesday 13 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	Movement of people and marine critters in response to changing ocean conditions	Biodiversity conservation 1	Fire Management	Climate Change projections and impacts	
11:00	Mixed fortunes: contrasting status, trends in abundance and management issues for South Australian pinnipeds; Simon Goldsworthy (SARDI)	Rural landscapes, stakeholder networks and biodiversity conservation: a structural analysis from Eyre Peninsula; Wayne Meyer (UoA)	From the ashes: the role of Natural Resources Management in personal and property recovery after the Sampson Flat Bushfire; Tom Brookman (DEWNR)	A perfect storm? Natural variability and climate change impacts and implications for natural resource management Darren Ray (BOM)	
11:15	Building blue infrastructure in South Australia through restoration of native shellfish reefs; Heidi Alleway (PIRSA / UoA)	Risks to prime agricultural land in the South East NRM region from unconventional gas mining; Anne Daw	A spatial decision support system for natural hazard risk reduction policy assessment and planning; Jeffrey Newman (UoA)	Climate projections at regional scales: adding value to Australia's national projections; Louise Wilson (CSIRO)	
11:30	6 months, 60 experts and 37 threats: a rapid assessment of ecological risk to marine habitats in Spencer Gulf; Zoë Doubleday (UoA)	Bridging the gap between farmers and NRM. Lessons learnt from working with the Agricultural Industry; Susan Sweeney (DEWNR)	BIGG Recovery of Native Pastures after Bushfire; Georgie Keynes (BIGG)	Are we underestimating the risk of climate change in South Australia?; John Tibby (UoA)	
11:45	Should I stay or should I go? The movement of mulloway (<i>Argyrosomus japonicus</i>) around the Great Australian Bight Marine Park inferred from satellite telemetry; Thomas Barnes (UoA)	Hydraulic redistribution in Western myall: implications for mine site rehabilitation; Emma Steggle (UoA)	How do bush fires change our landscape - using airborne Lidar to assess the fire signature of the Sampson Flat Fire, Jorg Hacker (ARA/ FUSA)	Talking with dryland farmers about adapting to climate change; the understandable focus on the near future and the status quo bias; Peter Hayman (SARDI)	
12:00	Oceanographic Research Supporting South Australian Fisheries and Aquaculture; Mark Doubell (SARDI)	Land use change under uncertainty: real options analysis of biomass agroforestry in agricultural land. What conditions will trigger land use change from agricultural food production to sequestering carbon? Courtney Regan (UoA)	Bushfires, biodiversity and peri-urban planning in a second modernity: the example of the Mt Lofty Ranges; Douglas Bardsley (UoA)	Constraining worst-case climate projections for realistic adaptation planning; James Ward (UniSA)	
12:15	Effects of climate change and ocean acidification on Australian marine fishes; Ivan Nagelkerken (UoA)	Futures for Australian land use and ecosystem services; Brett Bryan (CSIRO)	Of life and land; the journey of Pinery fire recovery and the role of NRM; Taryn Mangelsdorf (DEWNR)	An Isotopic TREND: Water stress in South Australian flora; Stefan Caddy-Retalic (UoA)	
12:30	Lunch – Maths Lawns next to The Braggs Theatre				

Day 1 - Session 2

Wednesday 13 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	Are SA marine parks making a difference?	Invasive and over abundant species	Fire ecology	Biodiversity 1	Abundant species / wildlife health
1:15	South Australia's Marine Parks – how will we know if they're working? Simon Bryars (DEWNR)	A Landscape Approach to Invasive Species Management; Miguel Lurgi Rivera (UoA)	Burning for environmental benefit – do assumptions and theories always stack up?; Naomi Rea	Investigating the molecular basis of echidna biology for application in conservation, wildlife management and habitat monitoring; Frank Grützner (UoA)	The koala on Kangaroo Island: Breeding dynamics of an overabundant, out of range herbivore subject to fertility control management; Freyja Watters (UoA)
1:30	Cameras and eyes – complementary approaches to counting fish in Marine Parks; Danny Brock (DEWNR)	Good Ol' Olive debate, is your control as effective as it can be?; David Hughes (DEWNR)	Diversity and fire: a conservation conundrum in understory plants from two Kangaroo Island mallee communities; Dave McKenna (DEWNR)	Management and conservation issues of the Southern Hairy-nosed Wombat. What do we know and what evidence is lacking in order to safeguard the future of the species?; Bertram Ostendorf (UoA)	Sustainable management of the Kangaroo Island koala population; Robyn Molsher (DEWNR)
1:45	A mapping strategy for the assessment of habitats within South Australia's Marine Parks; David Miller (DEWNR)	Over-abundant macropods - Managing the risks; Jason van Weenen (DEWNR)	Burnt trees: Habitat or Hazardous? Kirstin Abley (DEWNR)	Centres of plant biodiversity in South Australia; Greg Guerin (UoA)	SA koala health and disease research; Natasha Speight (UoA)
2:00	Answering the big questions – the role of research in the Marine Parks MER Program; Robyn Morcom (DEWNR)	The devil within: the biosecurity risk of illegal pet reptiles in Australia; Pablo García-Díaz (UoA)	Prescribed burning urbanises bird assemblages in the Mount Lofty ranges; Thomas Prowse (UoA)	Historical changes in the distribution of hairy-nosed wombats (<i>Lasiornis</i> spp.); Michael Swinbourne (UoA)	The Roseworthy Wildlife Health Research Centre: Proposing a new hub to support the 'One health' concept in South Australia; Wayne Boardman (UoA)
2:15	Eyre Peninsula Marine Parks Bio-blitzes – creating a lasting connection with the ocean through science; Shelley Harrison (DEWNR)	Sucking the lifeblood out of major invasive weeds of Australia; Robert Cirocco (UoA)	Prescribed burn intensity alters pollinator interactions in the Narrow-leaved Mallee (<i>Eucalyptus cneorifolia</i>) woodland community of Kangaroo Island; C Cannizzaro (FUSA)	Microbial Old Friends: looking for 'win-wins' in biodiversity management and human health; Craig Liddicoat (DEWNR)	How to capture emerging diseases of wildlife! Wildlife Health Australia and Wildlife Disease Surveillance at the University of Adelaide; Wayne Boardman (UoA)
2:30	Marine Park Compliance – Implementation of a new responsibility; Andrew Burnell (DEWNR)	Watsonia control: Effectiveness of 2,2-DPA, impacts on native flora and influence of a prescribed-burn; Anthony Abley (DEWNR)	Impact of fire on the reproductive success of terrestrial orchids in the Mount Lofty Ranges; Renate Faast (UoA)	Management of biodiversity for apple and pear pollinators; Katja Hogendoorn (UoA)	Managing rabbit damage in the era of myxomatosis and rabbit haemorrhagic disease; Greg Mutze (PIRSA)
2:45	To feed or not to feed fish in marine parks? David Pearce (DEWNR)	Prioritising pest and weed management to optimise success of a landscape-scale restoration project; Ben Shepherd (DEWNR)	Using Prescribed Burns to Achieve Weed Management Objectives; Andrew Sheath (DEWNR)	Spatial analysis of different types of Australian hemiparasites; Bjorn Dueholm (UniSA)	A proposed project investigating correlates of <i>Toxoplasma gondii</i> and macroscopic species of <i>Sarcocystis</i> to explain their higher prevalence on Kangaroo Island; Patrick Taggart (UoA)
3:00	Afternoon tea – <i>Maths Lawns next to The Braggs Theatre</i>				

Day 1 - Session 3

Wednesday 13 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	Charismatic marine predators and their interactions with people	Biosecurity	Water management in the Mt Lofty Ranges	Climate change adaptation	Environmental management of the Murray River 1
3:20	Seascape genetics for shark management: an innovation in sustainable fisheries modelling; Bronwyn Gillanders (UoA)	The on-shore biosecurity threat from the domestic cage-bird trade; Phillip Cassey (UoA)	Three years of environmental flows in the South Para, Torrens and Onkaparinga Rivers; Steve Gatti (DEWNR)	Rethinking Climate Adaptation Planning - Turning awareness into action; Peter Day (UoA)	Weir Pool Manipulation for Environmental Benefit in the River Murray; Jaimi Smith (DEWNR)
3:35	An investigation of the importance of little penguins in the diet of long-nosed fur seal (<i>Arctocephalus forsteri</i>); Sarah-Lena Reinhold (Flinders Uni, SARDI)	Assessing herbivore impact to inform herbivore management programs - a rapid method to guide effective management of feral goats, Bounceback Program; Trish Mooney (DEWNR)	Developing hydrological restoration options for Glenshera Swamp, Stipiturus Conservation Park; Mark Bachmann (Nature Glenelg Trust)	A framework for nature conservation under future climates, to inform climate adaptation planning in regions of the Murray Basin, south-east Australia; Dan Rogers (DEWNR)	Assessing the influence of operation of an environmental flow regulator on ecosystem productivity within an anabranch; Sanjina Upadhyay (UoA)
3:50	Shorebird use of the Samphire Coast in Gulf St Vincent; Tony Flaherty (DEWNR AMLR)	Micro-organism triggers widespread small mammal recovery in arid South Australia; Rabbit Haemorrhagic Disease Virus maximises bang for conservation buck; Rob Brandle (DEWNR)	Evaluating the implementation of a water allocation plan in the Mount Lofty Ranges, South Australia; Ashley Greenwood (DEWNR)	Biodiversity adaptation to climate change in the Mount Lofty Ranges: evidence, scenarios, synthesis, and management implications Andrew West (DEWNR)	Management of environmental water to stimulate productivity in order to achieve ecological outcomes in the lower River Murray; Todd Wallace (UoA)
4:05	Living with dolphins in an urban environment; Mike Bossley (WDC)	What are flying foxes doing in Adelaide? Researching the disease and ecological implications of Grey-headed flying foxes in South Australia; Wayne Boardman (UoA)	New methodology for assessing risk posed to water dependent ecosystems due to altered flow regimes; Doug Green (DEWNR)	Climate change adaptation in the Alinytjara Wilurara region of South Australia; Douglas Bardsley and Nathanael Wiseman (UoA)	Integrating disciplines for NRM outcomes: an example from the River Murray floodplain; Nadine Kilsby (DEWNR)
4:20	Preferred habitat of southern Australian bottlenose dolphins (<i>Tursiops c.f australis</i>) in Adelaide's coastal waters; Nikki Zanardo (Flinders Uni)	Family Matters: genes of life in the world of rabbits; Amy Iannella (UoA)	Practical implementation of environmental water deliveries downstream of water supply reservoirs in the Western Mount Lofty Ranges; Steve Kotz (SA Water)	Carbon sequestration potential of priority revegetation activities in Eyre and Yorke Peninsula landscapes under a changing climate; Trevor Hobbs (DEWNR)	Climate change and environmental water reallocation in the Murray-Darling Basin: impacts on flows, diversions and economic returns to irrigation; Jeff Connor (CSIRO)
4:35	'Effectiveness of an industry Code of Practice in mitigating interactions of the South Australian Sardine Fishery with the Short-beaked Common Dolphin (<i>Delphinus delphis</i>) (Tim Ward, PIRSA)	Remote cameras extend monitoring of pest control and native fauna populations, Bounceback Program, Flinders Ranges; Trish Mooney (DEWNR)	Optimising low flow releases to meet sustainable development objectives of a water allocation plan; Daniel Penney (DEWNR)	Carbon exchange of perennial semi-arid woodland in south eastern Australia responding to drought and fire – implications for NRM planning to manage global carbon; Georgia Koerber (UoA)	Floodplain Watering Trial: a partnership between Aboriginal Lands Trust, Gerard Community Council, Gerard Aboriginal Learning on Country Team and Natural Resources SA Murray-Darling Basin Wetland and Floodplain Team; Irene Wegener (DEWNR)
4:50	Conservation concerns about common dolphin interactions in the South Australian Sardine Fishery; James Brook (CCSA)	Introduction of <i>Dactylopius ceylonicus</i> Green (Hemiptera: Dactylopiidae) to South Australia; Henry Rutherford (DEWNR)	Aquatic macroinvertebrate community development in riffle habitats with onset of flow; Sonia Giglio (SA Water)	Climate change adaptation on the SA coast – the policies and the science behind them; Murray Townsend (DEWNR)	
5:05	Networking event - <i>Ingkarni Wardli Atrium</i>				

Day 2 - Session 4

Thursday 14 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	Aboriginal knowledge in NRM decision making	Environmental management of the Murray River 2	Restoration ecology	Charismatic marine predators and the primary production that supports them	Botany 2016 — Past, present and future
11:00	Keeping Culture: community data storage and access, a project within the Diamantina River Catchment project (Lake Eyre Basin); Melissa White (DEWNR)	Lower Lakes and barrage release modelling; Claire Sims (DEWNR)	Identifying cost-effective reforestation approaches for biodiversity conservation and carbon sequestration in southern Australia; Corey Bradshaw (UoA)	An overview of recent research and monitoring of highly migratory pelagic sharks in South Australia; Paul Rogers (SARDI)	Botany 2016 — Past, present and future; Michelle Waycott (SH/DEWNR, UoA)
11:15	Assessing the hydrogeology of Hookina Spring (Pungka Pudanha), Ikara-Flinders Ranges; Lauren Houthuysen (DEWNR)	Barrage release strategy impacts on the Murray Mouth and Coorong; James Fuller (DEWNR)	Applying an intervention ecology framework to the 30 Year Plan for Greater Adelaide: improving the recognition of complementary environmental and socio-economic outcomes; Andrew West (DEWNR)	Assessing white shark activity at the Neptune Islands to minimise the effects of cage-diving tourism; Charlie Huvneers (Flinders Uni)	What's hot in biosystematics and taxonomy in Australasia, and why you need to know about it; Kevin Thiele (Eubio Consulting)
11:30	The Riverland Rangers Working on Country project – Most Significant Change Evaluation; Phil McNamara (DEWNR)	The drought isn't over yet; Prolonged recovery of acid sulfate soils and water quality in the Lower Murray; Luke Mosley (UoA)	Translating the Landscape Assessment Framework for the Mount Lofty Ranges into Targeted Restoration Action; Randall Johnson (DEWNR)	Long-nosed Fur Seals in the Coorong and Lower Lakes: exploring different perspectives and their implications for research and management; Mike Greig (DEWNR)	The vegetation history of South Australia; Bob Hill (UoA)
11:45	Ngarrindjeri worldview on the description of Ramsar ecological character; Steve Hemming (FUSA), Daryle Rigney and Luke Trevorrow	Ecosystem Services Dynamics in the Murrumbidgee Catchment; Claire Settre (UoA)	Is planting arrangement important? The influence of population density and aggregation on seed production in a revegetated woodland; Kimberly McCallum (UoA)	Long-term study of skeleton pathology shows differences between Indo-Pacific Bottlenose Dolphins in Gulf St Vincent and Spencer Gulf, South Australia; Ikuko Tomo (SAM)	Molecular and isotopic insights into botanical history in South Australia; Cesca McInerney (UoA)
12:00	Ngarrindjeri Futures – The future of Aboriginal Partnerships in South Australia; Steve Hemming (FUSA)	Assessing water and salinity risks to viticulture production in the Riverland, South Australia; Vinod Phogat (SARDI)	Managing Native Vegetation in Kangaroo Island's Agricultural Landscape - Successes and Challenges; Grant Flanagan (DEWNR)	Investigating the offshore migratory movement of southern right whales: addressing critical conservation and management needs; Alice Mackay (SARDI)	Bioactive natural products and the South Australia flora: The arid zone awaits; Bradley Simpson (FUSA)
12:15	Engaging with Ngarrindjeri Cultural Knowledge; Steve Hemming (FUSA)	The impact of water and soil salinity on water market trading in the southern Murray-Darling Basin; Juliane Haensch (UoA)	Linking the landscape for woodland birds in the Upper South East; Cassie Hlava (DEWNR)	Development of hyperspectral reference database to enhance imagery mapping of seagrass distribution in Adelaide, South Australia; Tim Kildea (SA Water)	Projected climate change implications for the South Australian flora; Greg Guerin (UoA)
12:30	Ngarrindjeri Partnerships Project; Steve Hemming (FUSA)		Four Catchments project - Protecting and enhancing riparian vegetation in priority catchments of the Southern Flinders and Northern Mt Lofty Ranges; Jennifer Munro (DEWNR)	Regional ecosystem monitoring to improve understanding of oyster productivity; Paul Van Ruth (SARDI)	Ecologically-guided discovery of bioactive plant compounds; Casey Hall (UoA)
12:45	Lunch – Maths Lawns next to The Braggs Theatre				

Day 2 - Session 5

Thursday 14 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	Restoration ecology 2	Citizen Science in NRM decision making	Threatened species 1	Water quality	Botany 2016 — Past, present and future
1:30	A coordinated approach to planning landscape-scale ecological restoration; Sacha Jellinek (DEWNR)	Assessing and developing citizen science projects; Phil Roetman (UniSA)	Trial reintroduction of the western quoll and brushtail possum to the Ikara-Flinders Ranges National Park; Katherine Moseby (UoA)	Varying responses of two lakes with different trophic status to effects of warming and nutrient loading; Chaturangi Wickramaratne (UoA)	Botany and science at Adelaide's Botanic Gardens since the founding of the State Herbarium; Laurie Haegi (SH/DEWNR)
1:45	Building knowledge to optimise the success of restoration outcomes; Hafiz Stewart (DEWNR)	A citizen science community bird monitoring project on Eyre Peninsula; Greg Kerr (DEWNR)	Does release method matter when reintroducing brushtail possums to the semi-arid zone? Hannah Bannister (UoA)	Contaminant Transport from Horticulture in Mt Lofty Ranges; Danni Oliver (CSIRO)	The value of the 'other stuff' in collections-based scientific and cultural institutions; Tony Kanellos (BGSA/DEWNR)
2:00	Evaporation of perennial semi-arid woodland in south eastern Australia is adapted for irregular but common dry periods; Wayne Meyer (UoA)	Citizen Science on a shoestring: The Eyre Peninsula goannas project; Ben Smith (DEWNR)	Conservation biology of the endangered sandhill dunnart (<i>Sminthopsis psammophila</i>); Amanda Mclean (UoA)	Fire and Water – Sampson Flat Fire effects on water quality at Millbrook Reservoir; Jacqueline Frizenschaf (SA Water)	Waite Arboretum — Past, present and future; Jennifer Gardner (UoA)
2:15	Defining Habitat Use by Declining Woodland Birds to Inform Restoration Programs; Phil Northeast (UoA)	Mapping the distribution of the European rabbits (<i>Oryctolagus cuniculus</i>) in Australia using occurrence data from targeted field studies and citizen science; Emilie Roy-Dufresne (UoA)	Islands as refuges for threatened species: The success of multi-species translocation to Wedge Island; Bertram Ostendorf (UoA)	Using diatoms to assist in the setting of water quality guidelines in south-east South Australia and the Mount Lofty Ranges; Jenny Richards (UoA)	History and collections of the State Herbarium; Graham Bell (SH/DEWNR)
2:30	Native vegetation & invertebrates: landscape-scale provision of ecosystem services; Richard Glatz (DESS/ UoA/SA Museum)	Cat Tracker: understanding cats through citizen science; Phil Roetman (UniSA)	Habitat suitability mapping and fire management – towards improved conservation outcomes for the Endangered Mount Lofty Ranges Chestnut-rumped Heathwren and associated heath species; Kirsten Abley (DEWNR)	Seasonal variation in the nature of DOM in a river and drinking water reservoir of a closed catchment in South Australia; John Awad (UniSA)	Tales from the type bay of the State Herbarium of South Australia; Robyn Barker (SH/DEWNR)
2:45	Translating restoration goals into functional trait targets: comparing remnant communities to early restoration outcomes; Sally Maxwell (DEWNR)	Little corellas in South Australia: a citizen science approach to social and ecological research for management; Phil Roetman (UniSA)	Of bees and burns: conservation of the green carpenter bee <i>Xylocopa aeratus</i> in relation to fire-history on Kangaroo Island; Katja Hogendoorn (UoA)	What to do about blue-green algae in the River Torrens; Katharine Ward (DEWNR)	South Australian lichens — A Kangaroo Island case study; Gintaras Kantvilas (Tasmanian Herbarium)
3:00	Long-term revegetation success using a Kimseed Camel Pitter and Rangeland Contour Seeder in the central Flinders Ranges; Nerissa Haby (DEWNR)	SA Murray-Darling Basin citizen science program – taking it from the masses; Sylvia Clarke (DEWNR)	Have shorebirds been adequately considered with the expansion of the south-east beach-cast macroalgal fishery?; James Brook (CCSA)	Simulation of flow and nutrient loadings in the Onkaparinga catchment by the eco-hydrological model SWAT; Manoj Shrestha (UoA)	Fungi and mycological research in South Australia; Pam Catchside (SH/DEWNR)
3:15	Afternoon tea – Maths Lawns next to The Braggs Theatre				

Day 2 - Session 6

Thursday 14 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
		Science for NRM planning 1	SE Water management	Urban Water management	
3:35		Bringing participatory planning workshops together with spatial conservation planning: a case study from the Eyre Peninsula; Paul Koch (Greening Australia)	Managing and Adapting to Secondary Salinity and Altered Hydrology in a Ramsar Listed Lake Suite- Lake Warden Wetland System Case Study; John Lizamore (DPAW)	Parsimonious simulation of daily rainfall fields; Bree Bennett (UoA)	
3:50		Planning NRM conservation projects in coastal and terrestrial ecosystems; Annelise Wiebkin (DEWNR)	The investigation of the confined unconfined aquifer interaction in the SA-VIC border sharing zones; Managing a single or two separate aquifer systems?; Saad Mustafa (DEWNR)	Rainfall-Based flash flood forecasting systems for Adelaide; Christopher Wright (UniSA)	
4:05		More's the MERI-er: Application of the MERI framework to describing and managing the CLLMM region; Paul McEvoy (DEWNR)	Reviewing Groundwater Target Management Levels in the South East of South Australia: Kingston Confined Aquifer Study; Cameron Wood (DEWNR)	Managed aquifer recharge to support economic development in South Australia; Joanne Vanderzalm (CSIRO)	
4:20		Hey Dad, money does grow on trees: a new model to track changes in the extent of native vegetation across SA; Brad Page (PIRSA)	Investigations of low salinity confined aquifer groundwater for use as a potential replacement town water supply for Naracoorte; Jeff Lawson (DEWNR)	Multi-objective optimization of distributed stormwater harvesting systems; Michael Di Matteo (UoA)	
4:35		How to get higher precision in ecological field surveys (and a comparison of formulas for estimating confidence intervals for the systematic survey sample mean); Rick McGarvey (SARDI)	Controlling risk of regime shift in clear freshwater wetlands of national importance in SA; Margaret Shanfield (FUSA)	Adelaide's Managed Aquifer Recharge Story – success, complexity and continuing innovation; Peter Kretschmer and Donna-Lee Edwards	
4:50		Regional engagement and spatial modelling for natural resource management planning - Eyre Peninsula as an exemplar; Wayne Meyer (UoA)	Nullarbor to Naracoorte: DEWNR's extensive limestone and coastal karst assets – DEWNR science informing natural heritage; Ian Lewis (DEWNR)	Practical guidance on representing uncertainty in hydrological predictions; Dave McInerney (UoA)	
5:05	Launch of the Centre for Conservation Science and Technology and the Australian Bioactive Compounds Centre - <i>Braggs Lecture Theatre</i>				

Day 3 - Session 7

Friday 15 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	Environmental management of the Murray River 3	Biodiversity 2	Sustainable soil management	Groundwater management	Botany 2016 — Past, present and future
11:00	Palaeolimnology demonstrates how European impacts have fundamentally changed the ecology of the Lower Lakes and Coorong; Deborah Haynes (UoA)	Impact of Mineral Exploration on Ecosystem Characters and Mallee Vegetation of Pinkawillie Conservation Park, South Australia; Lindy Scott (UoA)	Overcoming constraints on sandy soils – amelioration strategies to improve resource condition and boost crop production; Brett Bartel (PIRSA)	Science Model Warehouse – Supporting Robust Water Resource Management in South Australia; Daniel Pierce (DEWNR)	Mapping South Australia's Pre-European vegetation cover; Tim Croft (SH/DEWNR)
11:15	Ecological response to Commonwealth environmental water delivered to the Lower Murray River; Qifeng Ye (SARDI)	Evaluating the landscape structure for hydrological restoration efforts - Using airborne Lidar and high resolution aerial imaging to assess the Fleurieu Swamps; Cacilia Ewenz (ARA / FUSA)	Preventing Soil Cracking, Acidification and Salinisation through Improved Irrigation Efficiency and Strategies; Michael Cutting (DEWNR)	Groundwater management and mining development in South Australia; Rohan Baird (DEWNR)	The vascular flora of South Australia; Jürgen Kellermann (SH/DEWNR, UoA)
11:30	A comparison of conventional and environmental DNA-based fish survey methods in a complex and ecologically-sensitive river system: the River Murray; Jennifer Shaw (CSIRO)	A top down approach to habitat restoration using key structural species; James Thiessen (DEWNR)	Improving subsoil constraints through innovative amelioration to sequester carbon on Eyre Peninsula; David Davenport (PIRSA)	Groundwater Resource Capacity Estimates in the Barossa PWRA: Approach to Risk and Uncertainty; Roger Cranswick (DEWNR)	The next generation of molecular botany in South Australia; Ed Biffin (SH/DEWNR)
11:45	Oh no not you again? Exploring drought preparedness to manage SA Murray-Darling-Basin threatened fishes during another diminishing river flow period; Nick Whiterod (Aquasave – Nature Glenelg Trust)	Assessing herbivore impact to inform herbivore management programs – a rapid method for managers of grassy and chenopod shrub dominated vegetation communities; Rob Brandle (DEWNR)	How South Australian farmers saved our soils from the brink of extinction - a success story; Tim Herrmann (DEWNR)	Effect of aquifer sediment mineralogy and stormwater chemistry on transport and removal of viruses; Salini Sasidharan (CSIRO)	Population genetic analysis and conservation implications for <i>Eucalyptus paludicola</i> using genome wide markers; Korjent van Dijk (UoA)
12:00	Distribution of and observations on gut content of the oriental weatherloach (<i>Misgurnus anguillicaudatus</i>) in the South Australian Murray-Darling Basin region: From specimens captured by Natural Resources SA Murray-Darling Basin; Irene Wegener (DEWNR)	Putting a price on stocking rates conducive to <i>Eucalyptus coolabah</i> recruitment; Nerissa Haby (DEWNR)	What are we doing to combat soil acidification in South Australia? Brian Hughes (PIRSA)	Wastewater tracers: using artificial sweeteners to track contamination sources; Rai Kookana (CSIRO)	How best do we sample a region's vascular plant diversity and how representative of a region is the State Herbarium collection?; Bill Barker (SH/DEWNR)
12:15	Deriving hydro-ecological relationships for temporary rivers: a trait-based approach; Sally Maxwell (DEWNR)	The use of Next Generation Sequencing to examine the diet of native and introduced herbivores in grassy ecosystems of the Murraylands; Dave Taggart (UoA)	Mallee Seeps – An opportunity or land degradation; James Hall	Integrated Remote Sensing and GIS in Linear Features Mapping For Water Resources Study in Central Flinders Ranges, South Australia; Alaa Ahmed (UniSA)	Restoring South Australia's native vegetation; Andy Lowe (UoA)
12:30	Cross-border cooperation to streamline recovery actions for the endangered Murray hardyhead (<i>Craterocephalus fluviatilis</i>) in the southern Murray-Darling Basin; Lara Suitor (DEWNR)	Small mammal and reptile response to a 15-year old integrated management program in a semi-arid environment; Nerissa Haby (DEWNR)	Monitoring soil erosion risk in the agricultural landscapes of South Australia using MODIS satellite data; Giles Forward (DEWNR)	Writing a WAP and winning over irate sections of the community; Simone Stewart (DEWNR)	Q&A
12:30	Lunch – <i>Maths Lawns next to The Braggs Theatre</i>				

Day 3 - Session 8

Friday 15 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	The bigger picture in NRM science	Water management in the Far North of SA	Environmental management of the Murray River 4	New technologies	Botany 2016 — Past, present and future
1:30	Individual versus state: choice and scarcity with a native vegetation twist; Russell Seaman (DEWNR)	The ecology of Lake Eyre basin fishes: Hydro-climatic drivers and fish assemblage dynamics in Australia's desert river basin; David Schmarr (SARDI)	Freshwater benefits a marine fish: evidence for providing environmental flows to the Coorong for productivity benefits; Chris Bice (SARDI)	Imaging submerged structures along the Adelaide coast line using an airborne small footprint bathymetric laser scanner; Wolfgang Lieff (Airborne Research Australia/FUSA)	Conservation status of plants in South Australia: Challenges and trends; Peter Copley (DEWNR)
1:45	Ecological Literacy in South Australia: How much do we know about nature ... and who knows? Sheryn Pitman (SA Museum)	Dealing safely with leaky, hot, high pressure wells in the Great Artesian Basin; Kent Inverarity (DEWNR)	Sharing Learnings on Environmental Watering – the 'frog effect'; Anne Jensen	Build it, they will come – Seabird use of an artificial sand island off metropolitan Adelaide; Tony Flaherty (DEWNR)	Seed conservation for South Australia; Jenny Guerin (BGSA/DEWNR)
2:00	The Nature of SA: Thinking differently about nature conservation; Anna Dutkiewicz (DEWNR)	Dalhousie Springs wetland composition, function and dynamics revealed by remote sensing; Megan Lewis (UoA)	Just add water? Frog breeding response to environmental watering of temporary wetlands in the lower Murray region, South Australia; Emily Hoffman (DEWNR)	Response of Adelaide City electricity consumption to outdoor weather in summer; Huade Guan (FUSA)	Weird and wonderful plants of South Australia; John Conran (UoA)
2:15	What's the Role of Science in the political process and how do we use the political process to get scientific outcomes; Greg Ogle (Fmr South Australian Campaign Manager, The Wilderness Society SA.)	A hydrochemical characterisation of springs in the vicinity of Lake Blanche, Lake Eyre Basin, South Australia; Mark Keppell (DEWNR)	Birds in Black Box: Avian community drivers in floodplain woodlands; Thomas Hunt (UoA)	A continental and consistent water mapping product from Geoscience Australia: South Australian applications of WOFs; Ramesh Raja Segaran (UoA)	Algal advocacy; Bob Baldock (SH/DEWNR)
2:30	DEWNR's Big Science: multi-year, cross-discipline investigation programs delivering targeted advice; Tom Carrangis (DEWNR)	Who needs drugs when you've got geology? The epic tale of the Finke River and the Pedirka Basin; Megan Hancock (DEWNR)	Artificial floodplain inundation promotes common carp; Brenton Zampatti (SARDI)	Satellite imagery - a tool to improve productivity; Bernadette Lawson (DEWNR)	Bryological research in South Australia; Graham Bell (SH/DEWNR)
2:45	Integration of ecosystem service metrics into product based environmental studies; Jodie Bricout (Life Cycle Strategies)	Mound Spring Conceptualisation and Holistic Models; Travis Gotch (DEWNR)	Getting the 'wet' into wetlands: delivering environmental water to wetlands and floodplains of the Riverland in South Australia; Callie Nickolai (DEWNR)	Technological Advances to Sustaining Irrigation Dependent Communities – A Partnership Approach in the SA MDB Region; Brenton Fenwick (DEWNR)	Boolean logic and plant names; David Cooke (Biosecurity SA)
3:00	From scrawny to brawny; Beefing up natural resource reporting; Craig Meakin (DEWNR)	Challenges targeting potable groundwater in the APY Lands, SA; Michael Gogoll (DEWNR)	The waterbird response to the environmental watering of Tolderol Game Reserve; Gareth Oerman (DEWNR)	Remote sensing of shallow groundwater dependent ecosystems in the western Lake Eyre Basin; Dorothy Turner (UoA)	Q&A
3:15	Afternoon tea – Maths Lawns next to The Braggs Theatre				

Day 3 - Session 9

Friday 15 April

	The Braggs Theatre	Horace Lamb Theatre	Flentje Theatre	Chapman Theatre	Mawson Theatre
	Threatened species 2	Science for NRM planning 2	Murray River groundwater systems		
3:35	Factors influencing the use of artificial nest hollows by the endangered SA glossy black-cockatoo (Kangaroo Island ssp); Karleah Berris (DEWNR)	The effects of permanent netting enclosures on fruit production and water efficiency; Mark May (DEWNR)	Quantitative modelling of spatio-temporal changes in floodplain settings using airborne geophysical data – an example from the Riverland South Australia; Tim Munday (CSIRO)		
3:50	Translocation to save the endangered pygmy bluetongue lizard; Michael Bull (FUSA)	Protecting groundwater-dependent ecosystems through innovative policies on Eyre Peninsula; Kerri Muller (Kerri Muller NRM)	Understanding SA River Murray floodplains: hydrology and hydrogeology; Juliette Woods (DEWNR / FUSA)		
4:05	Implications of uncertain taxonomy for conservation management: case studies on bandicoots and gliders; Steve Cooper (SA Museum)	A heritage of innovation: biocultural narratives in the McLaren Vale, South Australia; Douglas Bardsley (UoA)	Controlling mechanisms for freshwater lenses beside gaining reaches of the Murray River; Adrian Werner (FUSA)		
4:20	Rapid Recovery of Endangered Flora on the Fleurieu Peninsula; Rick Davies (DEWNR)	Adelaide International Bird Sanctuary – Collective Impact, the power of story and using data to drive systemic change; Arkellah Irving (DEWNR)	How can managed inundation and groundwater manipulation affect River Murray floodplain soil salinity and vegetation health? An insight provided by numerical modelling; Chris Li (DEWNR)		
4:35	Fire management for Red-tails; David McKenna (DEWNR)	Carbon turnover in Mallee – implications for carbon sequestration and NRM planning; Qiaoqi Sun (UoA)	Groundwater model for managing a saline floodplain at Pike, South Australia; Carl Purczel (DEWNR)		
4:50	Event close				

Glossary of Terms

ARA	Airborne Research Australia
BGSA	Botanic Gardens of South Australia
BIGG	Barossa Improved Grazing Group
BOM	Bureau of Meteorology
CCSA	Conservation Council of South Australia
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DEWNR	Department of Environment Water and Natural Resources
DPAW	Department of Parks and Wildlife
FUSA	Flinders University South Australia
NGT	Nature Glenelg Trust
NRM	Natural Resource Management
PIRSA	Primary Industries and Regions South Australia
SAM	South Australian Museum
SARDI	South Australian Research and Development Institute
SH	State Herbarium
UniSA	University of South Australia
UoA	University of Adelaide
WDC	Whale and Dolphin Conservation

The event is presented by the Natural Resources Management Research and Innovation Network, a partnership between the Department of Environment, Water and Natural Resources, the SA Natural Resources Management Boards, SA Natural Resources Management Council, the Department of Primary Industries and Regions SA, SA Water, the University of Adelaide, Flinders University and the University of South Australia.

