

SERA2018 Conference Program

Tuesday 25 September

08:00-09:00	Delegate Registration					
09:00-10:30 Plenary 1	Opening Plenary Room 1 (T203)					
09:00 - 09:20	Conference Welcome					
09:20 - 09:30	Welcome to Country					
09:30 - 10:00	Professor Jakki Mohr: Challenges in innovation in ecological restoration: Data from the U.S.					
10:00 - 10:30	Professor David Lindenmayer: Key lessons from long-term research for restoration and integrating conservation and agricultural production					
Chair	Kingsley Dixon					
10:30 - 11:00	Morning Tea Break					
11:00 - 12:00 Plenary 2	Dr Maksym Polyakov: Thinking differently about restoration: economists' perspective					
11:00 - 11:30	Dr Tein McDonald: How the National Restoration Standards' affirmation of native ecosystems as references can strengthen SERA's function as a broad church					
11:30 - 12:00	Kingsley Dixon					
Chair						
12:00 - 13:00	Lunch Break					
13:00 - 14:30 Breakout session 1 90 mins	Symposium Session Ecological Restoration Practice in the Big Scrub in North-East NSW	Open Session 1 Riparian and Coastal Wetland Restoration	Symposium Session The Multidisciplinary Aspects of Successful Mine Site Rehabilitation	Symposium Session Novel Techniques and Applications for Restoration Monitoring	Open Session 2 Social Dimensions of Restoration	Workshop Session Theory and Practice in Species Modelling for Conservation Restoration PART 1
Room	Room 1 (T203)	Room 2 (T103)	Room 3 (T105)	Room 4 (N201)	Room 5 (N202)	Room 6 (S201)
Organiser	Mike Delaney and Tein McDonald	-	Marit Kragt	Paul Nevill	-	Sean Tomlinson
Chair	As above	Valerie Hagger	Maksym Polyakov	Paul Nevill and Mieke van der Heyde	TBA	-
13:00 - 13:15	Saving the Big Scrub Mike Delaney	Evolution of a riparian restoration project: stabilisation and revegetation of the Damian Leeding Foreshore Marjolein "Mars" Oram	Introduction: Mine site rehabilitation - an interdisciplinary approach Marit Kragt	DNA metabarcoding - a new approach to fauna monitoring in mine site restoration Paul Nevill	Engaging schools and the community in riparian restoration - a Wilsons River case study Georgina Jones	Theory and Practice in Species Modelling for Conservation Restoration PART 1 <i>*Please note that participants will need to bring their own laptop to this session, onto which they have pre-loaded the statistics package to be used in the workshop. The statistics package and workshop data are available on the SERA website, and installation instructions are included in the workshop booklet. Macintosh users are recommended to either use Parallels, or bring a Windows machine.</i>
13:15 - 13:30	Recovery processes underpinning rainforest restoration in the Big Scrub Tein McDonald	Reef Aid: restoration of wetlands and gullies in priority catchments to improve water quality in the Great Barrier Reef Lynise Wearne	The new standards for improving mine site restoration Kingsley Dixon	Assessing the use of metabarcoding to monitor mine site restoration Mieke van der Heyde	Pest Free Auckland - enabling community-led conservation Brett Butland	
13:30 - 13:45	Camphor conversion to rainforest: restoration of mixed rainforest and camphor laurel patches to lowland rainforest case study Dan Cox	Case study of avifaunal diversity of wetlands in industrial and non-industrial areas, Vadodara, Gujarat, India Jagruati Rathod	Why is designing effective and efficient policies for mine rehabilitation proving to be so hard? Ben White	Automated monitoring of seedling emergence and early mortality from drone imagery Todd Buters	Rehabilitating Roe 8: a standard approach to a not so standard restoration project Tom Atkinson	
13:45 - 14:00	Wanganui Gorge ecological restoration - a ten year case study in rainforest restoration in a biodiversity hotspot Ian Stych	Implementing strategic coastal wetland restoration on a catchment scale Duncan Rayner	Economics to the rescue: non-market valuation of mine site rehabilitation Marit Kragt	Using UAV-based Lidar to assess forest structural attributes for monitoring of restoration plantings Nicolo Camarretta	When the funding finishes - continuing conservation efforts through community connections Samantha Colbran	
14:00 - 14:15	Big Scrub - making a vision of genetically appropriate seed production areas a reality Tony Parkes	Restoring coastal wetland water quality: ecosystem service provisioning by a native freshwater bivalve Christina Buelow	The global knowledge base on the social aspects of mine closure Sarah Holcombe	Using invertebrate DNA (IDNA) metabarcoding to track restoration trajectories of arthropods across two mine site chronosequences Kristen Fernandes	Six years and \$250,000 - what a community group learnt from implementing a major project Suzanne Pritchard	
14:15 - 14:30	Facilitated questions	Remediation of legacy acid sulfate soil disturbance: East Trinity case study Michelle Martens	A risk-based framework for completion criteria development for mine closure planning in Western Australia Renee Young	Facilitated questions	How ecological restoration can help facilitate a nature conservation culture Todd Dudley	
14:30 - 15:00	Lunch Break					

15:00 - 16:30 Breakout session 2 90 mins		Open Session 3 Aquatic Systems Restoration	Open Session 4 Soil and Soil Biota	Open Session 5 Mine Site Restoration Monitoring	Open Session 6 Social Dimensions of Restoration (cont.) and Science Communication	Workshop Session Theory and Practice in Species Modelling for Conservation Restoration PART 2
Room	Room 1 (T203)	Room 2 (T103)	Room 3 (T105)	Room 4 (N201)	Room 5 (N202)	Room 6 (S201)
Organiser		-	-	-	-	Sean Tomlinson
Chair		Lynise Wearne	Alison Ritchie	Peter Erskine	Tein McDonald	-
15:00 - 15:15		Recreating wallum wetland habitat for threatened 'acid' frog species Ed Meyer	Walking to scale up soil restoration by cyanobacterisation in drylands Yolanda Canton	Measuring the recovery of coal mine rehabilitation following fire in Queensland using remote sensing and ground surveys Phill McKenna	The capacity of restored urban forests to support native birds: Ecological or social restoration? Elizabeth Elliot-Hogg	Theory and Practice in Species Modelling for Conservation Restoration PART 2 <i>*Please note that participants will need to bring their own laptop to this session, onto which they have pre-loaded the statistics package to be used in the workshop. The statistics package and workshop data are available on the SERA website, and installation instructions are included in the workshop booklet. Macintosh users are recommended to either use Parallels, or bring a Windows machine.</i>
15:15 - 15:30		Integrated solutions for ecological restoration and management of tropical freshwater swamp forest Yixiong Cai	Artificially-constructed depressions provide insights into the role of soil disturbing animals in the recovery of degraded drylands David Eldridge	Developing objectives and completion criteria for post-mine landforms following silica sand mining Andrew Butler	Connecting restoration science, policy and industry: lessons from the WA Biodiversity Science Institute Guy Boggs	
15:30 - 15:45		Trialing stream rehabilitation tools to attenuate high nitrate loads in agricultural headwaters Brandon C. Goeller	Geochemical and mineralogical factors limiting soil structure formation in magnetite iron ore tailings Songlin Wu	Using data from drones to derive restoration targets for Ranger Uranium Mine Mitchel Rudge	Using the YouTube platform to promote Gondwana Link eco-restoration Basil Schur	
15:45 - 16:00		Reverting the Brisbane River Estuary from brown to blue Jesper Nielsen	A question of time; Mycorrhizal community change along a restoration trajectory Vicky McGimpsey	Monitoring understorey from UAV-derived data: a review and future directions for monitoring ecosystem restoration Lorna Hernandez Santin	Creek Heroes' are winning the battle in the City of Onkaparinga urban watercourse restoration project Nikola Manos	
16:00 - 16:15		Using Hooded Plovers to promote restoration of lake foreshores in WA's Great Southern Basil Schur	Microbial Biobanking: Cyanobacteria-rich topsoil facilitates mine rehabilitation Wendy Williams	Assessing understorey vegetation diversity of savanna woodland to inform mine-site restoration in Kakadu National Park Jaylen Nicholson	RegenTV - a new way to share stories about restoration Virginia Bear	
16:15 - 16:30		The Mokoan Project: The ecological renewal of an ephemeral wetland system in North-east Victoria Lisa Farnsworth				
16:45 - 18:45	Early Career and Student Function Room C207					
19:00 - 20:30	SERA Annual General Meeting (current members only) Saint Lucy Caffé, UQ St Lucia					

Wednesday 26 September

07:20-08:30	UQ Guided Restoration Walk hosted by the Society for Conservation Biology					
08:00-09:00	Delegate Registration					
09:00-10:30 Plenary 3	Opening Plenary Room 1 (T203)					
09:00 - 09:30	Bruce Pascoe: Slow food: The arc of taste					
09:30 - 10:00	Gerry Turpin: Working with Indigenous biocultural knowledge in natural resource management					
10:00 - 10:30	Professor Bruce Clarkson: Balancing the science and politics of an urban ecological restoration project					
Chair	Vern Newton					
10:30 - 11:00	Morning Tea Break					
11:00 - 12:00 Plenary 4	Dr Fangyuan Hua: Understanding potential synergies and trade-offs between biodiversity and ecosystem services to inform forest restoration strategies					
11:00 - 11:30	Dr Sarah Frias-Torres: Restoring the coral reefs of the future					
11:30 - 12:00	Chair Vern Newton					
12:00 - 13:00	Lunch Break					
13:00 - 14:30 Breakout session 1 90 mins	Symposium Session Adaptive Coastal Restoration - Responding to Change and Implementing Management	Open Session 7 Indigenous Values in Restoration	Symposium Session Emerging Eco-Engineering Solutions and Seed Enhancement Technologies to Combat Land Degradation	Symposium Session Expanding the Restoration Toolkit	Open Session 8 Monitoring and Trajectory	Workshop Session Using the National Standard's Recovery Wheel at Your Site: A Participatory Workshop PART 1
Room	Room 1 (T203)	Room 2 (T103)	Room 3 (T105)	Room 4 (N201)	Room 5 (N202)	Room 6 (S201)
Organiser	Jemma Purandare	-	Todd Erickson	Luke Shoo and Valerie Hagger	-	Tein McDonald
Chair	As above	Gerry Turpin	Todd Erickson and Jason Stevens	As above	Nicholas Dickinson	-
13:00 - 13:15	Introduction: Coastal restoration in Australia and the Coastal Restoration Network Jemma Purandare	Restoring tree cover in the Ramsar-listed Koorangie marshes through an indigenous partnership Damien Cook	Introduction: The science underpinning Western Australian restoration programs... and beyond Jason Stevens	Introduction: Expanding the restoration toolkit Luke Shoo	Responses of fauna to mine site restoration Sophie Cross	Using the National Standard's Recovery Wheel at Your Site: a Participatory Workshop Facilitators: Tein McDonald, Paul Gibson-Roy, Jen Ford and Damien Cook
13:15 - 13:30	Sexual restoration on coral reefs Peter Harrison	Acoustic recording to monitor bird song after aerial 1080 operation from an indigenous Maori perspective Richard Witehira	Recent advancements in restoration-engineering and seed enhancement technologies for use in land rehabilitation Todd Erickson	Conservation orientated restoration - rescuing threatened plant species by restoring their environments and restoring environments using threatened plant species Sergei Volis	Defining the parameters of successful bush regeneration outcomes Brendan Stephen	
13:30 - 13:45	Reinventing the wheel: The use of the Standards and Recovery Wheel for marine and coastal restoration projects Adam Smith	Investigation on proximate and underlying causes of deforestation to identify remedial measures (Case study: Ywangan Township, Shan State, Myanmar) Phyu Phyu Lwin	Seed ecology supports and enhances restoration practices Shane Turner	Using traits to learn lessons from sub-optimal restoration outcomes John Dwyer	Monitoring plant survival in revegetated agricultural landscapes Sacha Jellinek	
13:45 - 14:00	Can bivalve habitat restoration improve degraded estuaries? Ian McLeod	Community solutions to rehabilitating seabird breeding habitat on Big Island (Booirodoong), Five Islands Nature Reserve Rowena Morris	Innovative seed technologies for restoration in a biodiversity hotspot Alison Ritchie	Use of seasonal forecasting to manage weather risk in ecological restoration Valerie Hagger	Spatio-temporal analysis of savanna woody cover to drive closure criteria for Ranger Uranium Mine Tim Whiteside	
14:00 - 14:15	Coastal wetland fish nursery function in an agricultural dominated river catchment - 20 years of management Investment Nathan Waltham	Forest gardens are a financially-sound land rehabilitation model Kamal Melvani	Innovative nature-based strategies for dryland restoration: The potential of indigenous cyanobacteria Mirian Munoz-Rojas	Restore and Renew: Large scale evolutionary, environmental and ecological information in support of restoration practices Maurizio Rossetto	Seedling growth responses to species, neighbourhood and landscape scale effects during tropical forest restoration Lachlan Charles	
14:15 - 14:30	Panel discussion: Crossing the divide between theoretical and applied: The value of science informing management Moderator: Jemma Purandare, including all speakers, Susie Chapman, and Mark Read		Restoration engineering solutions to direct seeding problems guided by practitioner perceptions and seed requirements Monte Masarei	Smart allocation of restoration funds Luke Shoo		
14:30 - 15:00	Afternoon Tea Break					

15:00 - 16:30 Breakout session 2 90 mins	Symposium Session From Small to Large Scale Marine Coastal Restoration	Symposium Session Community-Based Ecological Restoration in the Tropics	Open Session 9 Seed Enablement, Technology and Genetics	Open Session 10 Databases, Tools, Methods and Technology	Symposium Session Mine Waste Rehabilitation for Ecological Sustainability- Industry Perspectives	Workshop Session Issues in Monitoring Restoration
Room	Room 1 (T203)	Room 2 (T103)	Room 3 (T105)	Room 4 (N201)	Room 5 (N202)	Room 6 (S201)
Organiser	Phoebe Stewart-Sinclair	Robert Fisher	-	-	Longbin Huang	Paul Nevill
Chair	Phoebe Stewart-Sinclair and Elisa Bayraktarov	As above	Allison Ritchie	Renee Young	Longbin Huang, David Parry and Jason Stevens	-
15:00 - 15:15	Introduction Phoebe Stewart-Sinclair	Social landscape and community capacity are important considerations in the design of community-based ecological restoration John Herbohn	The past, present and future of the native seed market in Europe Simone Pedrini	The case for a closer look at constructed wetlands for mine water treatment in Queensland Dominique Taylor	Introduction: Current frontiers of the closure and rehabilitation of mine wastes - Industrial needs shape R&D direction Longbin Huang	Issues in Monitoring Restoration
15:15 - 15:30	Marine coastal restoration of the last 45 years - objectives, successes, costs and scales Elisa Bayraktarov	Community-based native seed production for restoration in Brazil Danilo Ignacio de Urzedo	Addressing <i>Kunzea robusta</i> (kākūka) direct seeding constraints in New Zealand Ana Magalhaes Teixeira	Soil imprinting combined with an artificial soil crusting agent dramatically increases broadcast seed emergence Mark Dobrowolski	Challenges of mine waste rehabilitation: From environmental quality to ecological sustainability David Parry	
15:30 - 15:45	How to restore a coral reef: When bigger is better Sarah Frias-Torres	Leading and lagging impact indicators for evaluation and adaptive management of forest restoration Liz Ota	Some results of research on the quality of native plant seeds collected from an arid zone of Mongolia Altantsetseg Balt	Global map on the ecological uncertainty of forest landscape restoration success Renato Crouzeilles	Results from nine years of continuous monitoring of the ecosystem restoration of a waste rock landform at Ranger uranium mine, Northern Territory Ping Lu	
15:45 - 16:00	Title TBC Simon Reeves	Designing effective community-based ecological restoration: The case of ACIAR Forest Restoration Project in the Philippines Nestor Gregorio	Capturing genetic diversity for ecological restoration through seed collecting Marlien van der Merwe	Mapping reconstructed plant community types in cleared areas of NSW Adam Roff	Waste rock rehabilitation of magnetite-Fe ore mine under dry land conditions - plant establishment consideration Jason Stevens	
16:00 - 16:15	Social and ecological challenges and new directions in seagrass restoration John Statton	Ecological restoration and negotiated landscapes: Case studies from Asia William Jackson	Choosing appropriate seed sources: The importance of environment, genetics and demography for predicting restoration outcomes Melinda Pickup	Determining restoration potential of livestock grazed Mediterranean shrublands using fenced grazing exclosures Zoe Poulsen	Bauxite residues rehabilitation - environmental challenges and ecological expectation under subtropical Conditions Anja Urban	
16:15 - 16:30	Restoration of coastal ecosystems and Blue Carbon Catherine Lovelock	Facilitated questions		The new Index of Biodiversity Surveys for Assessments improves access to Western Australian biodiversity information Mike Young	Facilitated questions	
16:45 - 18:45	Poster and Trades Session Room C207					

Thursday 27 September

08:00-09:00	Delegate Registration				
09:00-10:30 Plenary 5	Opening Plenary Room 1 (T203)				
09:00 - 09:30	Associate Professor Daniel Laughlin: Are historical reference conditions an ecological fairy tale, or are they more relevant than ever?				
09:30 - 10:00	Linda Bell: Transferring theory into practice – how hard can it be? Lessons from Saving our Species Program.				
10:00 - 10:30	Professor Kerrie Wilson: Better decision making in ecological restoration				
Chair	Bruce Clarkson				
10:30 - 11:00	Morning Tea Break				
11:00 - 12:00 Plenary 6	Dr Linda Broadhurst: How genetics can influence long term restoration outcomes				
11:00 - 11:30	Dr Paul Gibson-Roy: Native seed production 'farming for restoration supply': Lessons from local and US sectors				
11:30 - 12:00	Chair				
12:00 - 13:00	Lunch Break				
13:00 - 14:30 Breakout session 1 60 mins	Open Session 11 Threatened Species Conservation	Open Session 12 Restoration in a Changing Climate	Symposium Session Seagrass Restoration Network: A New Community of Research and Practice	Symposium Session Native Seed for Restoration, Challenges and Opportunities	Open Session 13 Returning Ecosystem Function
Room	Room 1 (T203)	Room 2 (T103)	Room 3 (T105)	Room 4 (N201)	Room 5 (N202)
Organiser	-	-	Elizabeth Sinclair	Simone Pedrini	-
Chair	Linda Bell (TBC)	Renee Young	Elizabeth Sinclair and John Statton	Kingsley Dixon	Nicholas Dickinson
13:00 - 13:15	Germination, cultivation and ex situ conservation of an extremely rare palm endemic to New Caledonia Pierre Loslier	Achieving multiple benefits in ecological restoration for biodiversity conservation and carbon sequestration Valerie Hagger	Introduction: Seagrass Restoration Network: A new SER community building confidence in seagrass restoration John Statton	Introduction: The International Network for Seed Based Restoration Kingsley Dixon	Urban forest restoration has opposing indirect effects on litter decomposition and no effect on denitrification Kiri Joy Wallace
13:15 - 13:30	Balancing acts: Staged restoration of endangered species habitat in the Brickpit, Sydney Olympic Park 2006-2018 Jenny O'Meara	Local provenancing in subtropical rainforest restoration: For better or worse? A review of practitioners' perspectives Sally L Cooper	Understanding the tropical seagrass seed story for improved seagrass restoration Emma Jackson	Status of the Australian native seed sector: Results of a nationwide survey Paul Gibson Roy	How rapidly do litter decomposition and decomposer invertebrates return during rainforest restoration on disused pastures? Marisa Stone
13:30 - 13:45	Maximising ecological restoration outcomes through threatened species management programs Jen Ford	Integrating climate change and local adaptation to inform species and provenance choice for woodland restoration Peter Harrison	Recruitment facilitation to rehabilitate lost <i>Amphibolis antarctica</i> in South Australia Jason Tanner	Optimisation of seed coating technology to native grasses Simone Pedrini	The recovery of functional diversity with restoration Sophie Hale
13:45 - 14:00	Bungawalbin Catchment endangered emu conservation through habitat enhancement, vertebrate pest control and community engagement Paul O'Connor	Model for integrated peatland restoration in Indonesia: A study from Utar Serapat Grahame Applegate	Tackling a global problem - developing seagrass restoration methods for boat mooring scars Elizabeth Sinclair	A Protocol Development Tool for native seed coating Khiraj Bhalsing	Direct seeding to restore drooping Sheoak Grassy Woodlands on Dakalanta Wildlife Sanctuary, Eyre Peninsula, South Australia James Walsh
14:00 - 14:15	How did we go? A genetic analysis of the <i>Gossia ganocladia</i> Recovery Program Laura Simmons	Addressing Indonesia's haze crisis through a multi-sector, interdisciplinary program based on accurate primary data field-research Laura Graham	Spreading the seeds of change: Optimising community engagement efforts to improve seagrass restoration Lana Kajlich	Resolving dormancy in difficult-to-germinate Australian Ericaceae Michael Just	Coordinated recovery planning for threatened woodlands Hannah Fraser
14:15 - 14:30			Developing the steps required for the effective use of seed in seagrass restoration John Statton	Facilitated questions	
14:30 - 15:00	Afternoon Tea Break				

15:00 - 16:30 Breakout session 2 60 mins	Symposium Session Trait-Based Ecological Engineering – Are Plant Traits a Useful Indicator of Restoration Targets?	Open Session 14 Scaling Up Restoration	Open Session 15 Marine Restoration	Open Session 16 Mine Site Restoration	
Room	Room 1 (T203)	Room 2 (T103)	Room 3 (T105)	Room 4 (N201)	
Organiser	Jarrah Wills and Jennifer Firn	-	-	-	
Chair	Mimi McGirvan	Bruno Fogliani	Phoebe Stewart-Sinclair	Peter Erskine	
15:00 - 15:15	Introduction: Theoretical understanding of global patterns plant traits Angela Moles	Scaling up - Is it possible or an ongoing aspiration? Jen Ford	Operation crayweed: Restoration of underwater forests Alexandra Campbell	Tailings dam rehabilitation - A new perspective Carmen Castor	
15:15 - 15:30	Leaf nutrients, not specific leaf area, are consistent functional indicators of short-term environmental change in grasslands Jennifer Firn	Large scale restoration at small scale costs in Southwest Western Australia Glen Steven	From little things, big things can grow back again: Pumicestone Shellfish Habitat Restoration Project Susie Chapman	Establishing self-sustaining ecological mine rehabilitation that achieves recognised ecological communities Travis Peake	
15:30 - 15:45	Plant ecological strategies and restoration: How functional traits shape community assembly, structure and diversity Robert Kooyman	Scaling up reforestation: Lessons learnt from three different reforestation approaches in Myanmar Thaung Naing Oo	The feasibility and first steps of restoring Australia's disappearing Giant Kelp (<i>Macrocystis pyrifera</i>) forests Cayne Layton	Thirty years of ecological restoration of mining-degraded areas in New Caledonia: Synthesis and production of success indicator Hamid Amir	
15:45 - 16:00	Do leaf traits reflect ecosystem processes useful for tropical reforestation? Jarrah Wills	Leverage trust-based partnerships to implement stream restoration at scale: A CAREX case study Catherine Febria	Habitat restoration or creation - A feasibility assessment for reuse of dredged marine sediment Kevin Kane	From Remediation to Ecological Engineering: The Paradigm Shift in Concepts and Technology of Tailings Rehabilitation Longbin Huang	
16:00 - 16:15	Seed size: Crucial in the dynamics and practice of tropical forest restoration? Carla Catterall	Upscaling best practice: A 300 ha dry shrubland restoration within an irrigated farm landscape matrix Nicholas Dickinson	A diagnosis of institutional readiness to implement mangrove forest landscape restoration in Indonesia Benjamin Brown	Thirty years of ecological restoration of mining-degraded areas in New Caledonia: Comparative analysis and recommendations Bruno Fogliani	
16:15 - 16:30	Trait-based species assemblages for ecological restoration in a changing world Daniel Laughlin	Applying the SERA Standards to large-scale restoration in Gondwana Link (South-Western Australia) - challenges and approaches Barry Heydenrych		Long-term research supports a reduced fertilizer application rate for mine site forest restoration in South West Australia Andrew Grigg	
16:30 - 17:00	Official Conference Closing Room 1 (T203)				
19:00 - 23:00	Conference Gala Dinner Offsite Venue: Hillstone St Lucia				
Friday 28 September					
08:00 - 17:00	Conference Field Trips Meeting point: Bus set down at the Athletics Centre (Playing Fields 7), on the corner of Sir William MacGregor Drive and Campbell Road, UQ at 7:30am for a 8:00am departure.				