

Day	Time	Topic	Chair	Presenter	Session
Sunday	17:00	Welcome reception (Ballina RSL)			
Sunday	19:00				
Monday	8:00	Registration			
Monday	9:10	Opening remarks		Naomi Wells, Joanne Oakes	
Monday	9:15	Welcome to Country		Kris Cook	
Monday	9:30	Australian stable water isotopes—connecting the windows in time and space	Wells & Gray	Cath Hughes	Keynote
Monday	9:45				Water isotopes in hydrology and beyond
Monday	10:00				
Monday	10:15	Morning tea			
Monday	10:30				
Monday	10:45	A groundwater isoscape for New Zealand		Vanessa Trompetter	
Monday	11:00	Understanding the stable isotopic variability of precipitation across the Snowy Mountains, south-eastern Australia		Sharon Gray	
Monday	11:15	A national scale precipitation isotope model for New Zealand		Alice Hill	Water isotopes in hydrology and beyond
Monday	11:30	New Australian Leaf Water Isoscapes for $\delta^{18}\text{O}$ and $\delta^2\text{H}$	Suckow	Gerber/McInerny	
Monday	11:45	Oxygen isotope fractionation in whiting otoliths (ear-bones) is influenced by water temperature		Melissa Tan	
Monday		Oxygen isotope ratios in plant phytoliths as a proxy for past climates and environments		Kym Edwards	
Monday	12:00				
Monday	12:15				
Monday	12:30	Lunch			
Monday	12:45				
Monday	13:00				
Monday	13:15	Grassland regrowth after defoliation strongly relies on carbon and nitrogen from roots: results from a novel ^{13}C and ^{15}N labelling method		Feike Dijkstra	
Monday	13:30	Temporal and spatial upscaling of denitrification losses – a synthesis of high temporal resolution N_2O , in-situ $^{15}\text{N}_2\text{O}$ and $^{15}\text{N}_2$ measurements and fertiliser ^{15}N recoveries and statistical models		Naoya Takeda	
Monday	13:45	TBA		Chelsea Janke	Biogeochemistry, from land to sea (1)
Monday		Assessing the recent history of nutrient deposition in dammed Tasmanian Central	Farrell		
Monday	14:00	Highland lakes		Harrison Stevens	
Monday	14:15	Untangling the sources and transformation processes of nitrogen in streams and groundwater in agricultural catchments		Wei Wen Wong	

Monday	14:30	Processing of carbon within a subtropical mangrove forest: a whole ecosystem stable isotope labelling study	Joanne Oakes		
Monday	14:45	Interannual distribution of CH4 in the Gulf of Cadiz (2014 - 2016)	Ana Sierra Padilla		
Monday	15:00	Afternoon tea			
Monday	15:15				
Monday	15:30	Trophic ecology of depth-specialist and depth-generalist corals across shallow to mesophotic reefs	Veronica Radice	Ecology	
Monday	15:45	Individual and population diet variation in a critically endangered marine predator	Courtney Ogilvy		
Monday	16:00	Maintaining robust food-web interpretations in non-lethal sampling of the lobster <i>Sagmariasus verreauxi</i> (eastern rock lobster)	Jeremy Day		
Monday	16:15	Trophic level and feeding location assignments of Southern Ocean humpback whales, informed by bulk and compound specific stable isotope analysis	Sarah Bury		
Monday	16:30	Stable nitrogen isotope analysis of amino acids as a new tool to clarify complex parasite–host interactions within food webs	Tijs Joling		
Monday	16:45	Interpreting past trophic ecology of a threatened alpine parrot, kea <i>Nestor notabilis</i> , from museum specimens	Pricilla Wehi		
Monday	17:00	Poster session			
Monday	18:30				
Tuesday	9:00	Iron isotopes in acid-mine drainage: A case of extreme and divergent fractionation via competing kinetic versus equilibrium effects.	Ed Burton	Contaminants	
Tuesday	9:15	Stable N and O isotope dynamics of nitrate chemodenitrification by mackinawite under acidic to neutral pH conditions	Richard Collins		
Tuesday	9:30	Tracing Soil Erosion and Soil Organic Carbon Movement Using Radioisotopes: Moving from Cesium-137 To Lead-210	Abe Gibson		
Tuesday	9:45	Laboratory culture experiments on heavy metals uptake by the large benthic foraminifera <i>Amphisorus hemprichii</i> : a high-resolution proxy for monitoring anthropogenic pollution in near-shore marine environments	Netramani Sagar		
Tuesday	10:00	Localizing Contaminant Sources in the Baleen of Mysticete Whales	Amy Hirons		
Tuesday	10:15	Morning tea			
Tuesday	10:30				
Tuesday	10:45	Pushing the limits of isotopic analyses in exposome and Environmental Biodynamics research	Renaud Joannes-Boyau	Keynote	
Tuesday	11:00				
Tuesday	11:15	Analysis of dissolved nitrate stable isotopes using the one-step Ti (III) reduction method	Cernusak Sam Barker	Methods	
Tuesday	11:30	and iso FLOW GHG headspace analyzer			

Tuesday	11:45	A new system to measure N2O site preferences in air samples, demonstrated on N2O extracted from agricultural drainage waters	Peter Sperlich	
Tuesday	12:00	Minimum requirements for publishing stable isotope results - IUPAC/IAEA recommendations	Greg Skrzypek	
Tuesday	12:15			
Tuesday	12:30			
Tuesday	12:45	Lunch		
Tuesday	13:00			
Tuesday	13:15	A different type of GPS: universal isotopic fingerprints to geolocate marine animals	Zoe Doubleday	Keynote
Tuesday	13:30			
Tuesday	13:45			
Tuesday	14:00	Authentication of Mānuka honey by using Compound-Specific Isotope Techniques	Martino & Kurosawa	Provenancing
Tuesday	14:15	Proving Provenance of Provisions	Kaushila Kodikara	
Tuesday	14:30	Multi-isotopic provenancing for verification of sandalwood geographic origin	Stewart Walker	
Tuesday	14:45	Making isotope provenance useful in the real world: challenges and opportunities	Ellyse Bunney	
Tuesday	15:00			
Tuesday	15:15	Afternoon tea		
Tuesday	15:30	A multi-tracer study to examine the fluid-rock and microbial processes controlling the composition of the groundwater and gas of the Walloon Subgroup, Surat Basin	Kim Baublys	Hydrology
Tuesday	15:45	Integrating rock core and geochemical groundwater data to determine origins and evolution of groundwater resources – Cambrian Limestone Aquifer sub-basins, NT	Cornelia Wilske	
Tuesday	16:00	Quantifying recharge to the Pilliga Sandstone aquifer, Great Artesian Basin Australia: learnings from combining 14C, 36Cl and 81Kr	Wood	
Tuesday	16:15	Longitudinal variability and gas dynamics in a large tropical river system	Axel Suckow	
Tuesday	16:30	Measuring methane concentrations and isotopic tracers in alluvium and aquifers overlying a coal seam methane reservoir	Eddie Banks	
Tuesday	16:45	From Rain through River Catchment to Aquifer: The Flow of Water through the Wairau Hydrologic System	Julie Pearce	
Tuesday	18:00			
Tuesday	22:00	Conference dinner (Shelly Beach Café) - busses pick up at the RSL at 17:45		
Wednesday	9:15	ABUNDANCE AND ISOTOPE (13C, 14C) COMPOSITION OF PYROGENIC CARBON	Michael Bird	Keynote
Wednesday	9:30			
Wednesday	9:45			
Wednesday	10:00	Differentiating between the $\delta^{13}\text{C}$ signature from environmental conditions and organic matter cycling in eastern Australian peat sediments	lakes & Nix	Palaeo sciences

Wednesday	10:15	Temperature offsets in the dual carbonate-clumped isotope thermometer due to $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ sample heterogeneity	Jackson White		
Wednesday	10:30	Morning tea			
Wednesday	10:45				
Wednesday	11:00	Linking leaf water and body water models to reconstruct relative humidity from kangaroo tooth enamel oxygen isotope ratios	Cesca McInerney		
Wednesday	11:15	The very best pairing: how caves and teeth provide opportunities to explore extinct hominid behaviour	Marian Bailey		
Wednesday	11:30	Insights into human and nonhuman primate evolution from fine-scaled sampling of oxygen isotopes in tooth enamel	Fallon	Tanya Smith	Palaeo sciences
Wednesday	11:45	Raising and eating pigs in Bronze Age Northwestern China		Petra Vaiglova	
Wednesday	12:00	High-resolution, multiproxy speleothem record of the 8.2 ka event from Mainland Southeast Asia		Chris Wood	
Wednesday	12:15	An isotopic wander – applications of metal isotope chemistry: from megafauna's breakfast to diagnosing chronic diseases		Anthony Dosseto	
Wednesday	12:30				
Wednesday	12:45	Lunch			
Wednesday	13:00				
Wednesday	13:15				
Wednesday	13:30	Isotopic signals in <i>Toona ciliata</i> as recorders of global climate change - a test under glasshouse conditions		Lucas Cernusak	
Wednesday	13:45	Preservation prevails at Tam Pà Ling, Laos: reconstructing palaeovegetation dynamics via higher plant biomarkers offer new insights into environmental variability across MIS 3-MIS 1.		Meghan McAllister	
Wednesday	14:00	Evaporative enrichment of xylem water along the plant stem	McInerney	Hilary Stuart-Williams	Plants past & present
Wednesday	14:15	Isotope methods to assess plant exchange of carbon for nitrogen		Bahareh Bicharanloo	
Wednesday	14:30	The phylogenetic impact on photosynthetic and post-photosynthetic hydrogen isotope fractionation in 73 tree species		Philipp Schuler	
Wednesday	14:45	Vegetarian carnivorous plants are a trouble sign in wetlands? Diet shift associated with nutrient availability in carnivorous plant <i>Utricularia</i> spp.		Emmi Kurosawa	
Wednesday	15:00	Applications of C, N and S stable isotopes in seagrass ecology		Belinda Martin	
Wednesday	15:15	Afternoon tea			
Wednesday	15:30				
Wednesday	15:45	Bio-detection of nitrogen isotopes as a way of understanding nutrient biogeochemistry in the tropical ocean		Dirk Erler	Keynote
Wednesday	16:00				

Wednesday	16:15		Declaration of Day		
Wednesday	16:30	<i>Internal cycling of organic nitrogen sustains eutrophy in a WA wetland</i>		<i>Roisin McCallum</i>	Biogeochemistry, from land to sea (2)
Wednesday	16:45	<i>15N additions for evaluating nitrogen biogeochemical cycles in aquatic systems - four case studies</i>		<i>Bradley Eyre</i>	
Wednesday	17:00	Closing remarks and student prize giving (best three talks, best three posters)		Wells & Oakes	
Thursday	8:30	Field trip (pick-up / drop-off @ RSL carpark)			
Thursday	16:00				