

View Abstract Booklet

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Session Theme & Type Legend

 Keynotes
 Planning and People
 Ports and Infrastructure
 Science
 Nature and Ecosystems
 Student Presenters
 Networking Event

Tuesday 18 November

6.00 – 7.00pm	Registration		
6.00 – 9.00pm	Icebreaker Function The National Aquarium, 546 Marine Parade, Napier	Brought to you by	BLUEMONT -ROCK BAGS-

Wednesday 19 November

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7.30 – 9.00am	Eric Verstappen Emerging Professionals Breakfast Elicious Eatery, 19 Clive Square West, Napier		Brought to you by Te Hunga Takutal o Antearna NEW ZEALAND COASTAL SOCIETY
8.00 – 9.00am	Registration and tea/coffee		
9.00 – 9.20am	Mihi Whakatau – Welcome and Conference opening Natusch Ball Room		
9.20 – 10.20am	Keynote Natusch Ball Room Hinewai Ormsby (TBC)		Brought to you by Tonkin+Taylor
10.20 – 10.50am	Morning Tea		
Session 1	Coastal Hazards Natusch Ball Room Chair - Megan Tuck	Beyond New Zealand Breakout Room 1 Chair – Ana Serrano	Water quality and ecology Breakout Room 2 Chair – Bryony Miller
10.50 – 11.10am	NZTA Coastal Hazards Guide for Land Transport Infrastructure David Greig, NZTA	The effects of structural complexity on the turbulent structure around cubic artificial reefs: An Experimental Study with Ecological Insights Jialin Zhao, University of Auckland	An assessment of the threats and vulnerabilities of pīkao (Ficinica Spiralis) in Ōtākou (Otago) Rose Somerville, University of Otago
11.10 – 11.30am	A design approach for rock sizing revetments in beyond shallow conditions Ben Batchelor-Cook, University of Auckland	Flood resilience in Fiji's coastal villages through integrated modelling and nature-based solutions Joao Castro, eCoast	Seagrass (Zostera Muelleri) recovery and seasonal dynamics following sand excavation in Matapouri Estuary, New Zealand Pamela Kane-Sanderson, SLR Consulting Ltd

11.30 – 11.50am	Designing a temporary beach structure to mitigate swash energy during storms Catriona Thompson, University of Auckland	Adaptive design and long-term planning: Building resilience in Pacific atoll nations Holly Blakely, Tonkin + Taylor	From glory to gutter – our degrading Manukau Harbour water Harper Spurway, Avondale College	
11.50 – 12.10pm	End-of-century shoreline change projections in Aotearoa New Zealand: Our changing coasts project Eduardo Gomez-de la Pena, University of Auckland	Integrated pedestrian and car agent-based models of tsunami evacuation Constanza Flores, University of Canterbury	Enabling coastal stewardship: The role of taxonomy in marine monitoring and biosecurity Paul Wolf, Ocean Wolf	
12.1012.30pm		Evacuation behaviour during tsunamis in Sri Lanka Chamika Kannangara, RMIT University, Australia	After the storm: Impacts of Cyclone Gabrielle on sedimentation and estuarine communities Georgina Flowers, Hawke's Bay Regional Council	
12.30 – 1.30pm	Lunch			
1.00 – 2.00pm	NZCS AGM (all welcome)			
	FIELD TRIPS			
	Napier Ports Tour		Brought to you by NAPIER® PORT To Herongo Woka o Ahuriri	
2.15 – 5.00pm	Coastal Strategy – Southern Cells Visit		Brought to you by COREEF	
	Te Whanganui-ā-Orotū (Ahuriri Estuary)			
5.30 – 7.30pm	NZCS/PIANC Young Professionals Networking The Pavillion, 49 Marine Parade, Napier South		Brought to you by	

Thursday 20 November

8.00 – 8.55am	Registration and tea/coffee			
9.00 – 10.00am	Keynote Natusch Ball Room Kris Faafoi - Navigating change: Insurance, climate risk and coastal communities			
Session 2	Lightning talks/Poster session Natusch Ball Room Chair – Connon Andrews		Big data Breakout Room 1 Chair – Andrew Allison	
10.00 – 10.20am	 Lightning talks Preston Malaufiti, University of Otago - "Variability of bioactive compounds within Undaria pinnatifida in Otago Harbour" Jokotola Omidiji, Auckland Council – Balancing Acts: Coastal Erosion, Public 		Harnessing high resolution topo-bathymetric data for coastal zone management Jeff Lillycrop, Woolpert	
10.20 – 10.40am	 Space, and Private Seawalls on Esplanade Reserves Paul Wolf, Ocean Wolf – A 6,000m² Challenge: Response Infestation in Ahuriri Estuary 	onding to the Ficopomatus	Enabling coastal data workflows through a unified data model and cloud-native infrastructure Jana Echave, OCEANUM	
	Posters (for viewing - no lightening talks) Ruby Mckenzie Sheat, Earth Sciences New Zealand – modelling of inundation hazards: a case study at Te Poke Ryan Paulik, Earth Sciences New Zealand – RiskScape coastal hazard risk analysis	ohiwi o Kupe Wairau Bar		
10.40 – 11.00am	n Morning Tea			
Session 3	Coastal Resilience Natusch Ball Room Chair – Amy Robinson	Big data continued Breakout Room 1 Chair – Shari Gallop		Ecology Breakout Room 2 Chair - Sophie Horton
11.00 – 11.20am	Developing a technical coastal program to build coastal resilience – the Saint Clair Saint Kilda case study Raphael Krier-Mariani, Dunedin City Council		identifying agent classes for climate Ition using a serious online game ligence	Heatwave impacts in estuaries: implications for ecosystem resilience and carbon cycling Emily Douglas, Earth Sciences New Zealand
11.20 – 11.40am	A multifaceted and interconnected modelling framework to build coastal resilience – Saint Clair Saint Kilda Ed Atkin, eCoast	Seascope Aotearoa: An open-access platform for integrated ocean observations and forecasts Remy Zyngfogel, Calypso Science Ltd		Ecological considerations for coastal hazard mitigation: enhancing outcomes for coastal ecosystems Anna Madarasz-Smith, Pattle Delamore Partners
11.40 – 12.00pm	Nature based solution feasibility case studies on the Canterbury Coast Lana Greig, Jacobs	e Harnessing big data to inform fisheries and coastal management Jean P. Davis, Fisheries New Zealand		Looking beneath the surface: The subtidal habitats of Hawke's Bay Andrea Glockner, Hawke's Bay Regional Council

12.00 – 12.20pm	Beyond bathtub modelling: An assessment of built environment exposure to inundation as sea levels rise Ashlee Blaymires, University of Auckland	Improving key baseline datasets for Aotearoa's coastal resilience Stuart Caie, Toitū Te Whenua Land Information New Zealand (LINZ)	Measuring the impacts of ship anchoring Sally J. Watson, Earth Sciences New Zealand
12.20 – 12.40pm	The role of infrastructure provision in defining coastal hazard planning rules in District Plans – case study Christchurch Alison Bear, Jacobs	Understanding Coastal Change in Tāmaki Makaurau: Key Insights from Auckland Council's Coastal Monitoring Programme Megan Tuck, Auckland Council	Field methods used to monitor colonisation of subtidal reef enhancement units Jack O'Carroll, SLR Consulting Ltd
12.40 – 1.00pm	Asset Management Planning for specialised Assets: Auckland Council's first coastal AMP Marli A. Geldenhuys, Auckland Council	Practical image processing applications to inform coastal hazard and adaptation planning Peter Quilter, Tonkin + Taylor	Te Ara Tupua – a case study in sustainable coastal infrastructure Tom Shand & Tahana Okeroa, Tonkin + Taylor
1.00 - 2.00pm	Lunch		
Session 4	Resilience and adaptation Natusch Ball Room Chair – Alison Bear	Flooding Breakout Room 1 Chair – Tom Fitzgerald	Physical processes Breakout Room 2 Chair - Bronwen Gibberd
2.00 – 2.20pm	Moanataiari inundation protection over 5 decades, but what next? John Duder, Tonkin + Taylor	The influence of Sea Level Rise on Freshwater Flooding around Aotearoa New Zealand Emily Lane, Earth Sciences New Zealand	Monitoring and modelling the supply of beach grade sediment from rivers to the coast Richard Measures, Earth Sciences New Zealand
2.20 – 2.40pm	Questions arisen from the proposed land use change of the Ahuriri Station, Napier José Beyá, IHBEYA Coastal & Hydro-Environmental Engineering	Using an equilibrium model to explore the influence of climate variations on estuarine evolution Edouard Basquin, University of Auckland	Wellington Airport Southern Seawall Renewal – armour unit selection process and 2D physical model testing Amy Sheppard, Beca
2.40 – 3.00pm	Ngā Herenga o Papatūānuku: Establishing a tangata whenua climate adaptation network Shari Gallop, Pattle Delamore Partners	Challenges in applying national-scale coastal flood risk information across Pacific Island contexts Shaun Williams, Earth Sciences New Zealand	Large woody debris on the beaches of Gisborne Tairawhiti Murry Cave, Gisborne District Council
3.00 – 3.20pm	He raru ki tai - Walking uneasily between two worlds Sam Scott-Kelly, David Coastal Consultants	Dynamics of flood inundation and barrier beach evolution in the Lower Kowai River Cindy Asmat, University of Canterbury	Extent of contemporary and late Holocene marine terrace cover deposits on Kaikōura Peninsula Sophie Horton, University of Canterbury
		·	Where stormwater meets the sea: integrating coastal outfalls into Auckland council's inlets and outfalls guideline Ryan Abrey, Stantec
3.40–4.00pm	Afternoon Tea		
6.00pm – late	Conference Dinner 'Napier Nights – An Art Deco Dream' The Napier War Memorial		Brought to you by eCoast eTakutai

Friday 21 November

8.00 – 8.30am	Registration and tea/coffee		
8.30 – 9.30am	Keynote Natusch Ball Room Richard Reinen-Hamill - Ka mua, ka muri – Looking Back to Move Forward		
Session 5	Resilience and adaptation Natusch Ball Room Chair – Mike Allis	Physical processes Breakout Room 2 Chair – Ryan Abrey	
9.30 – 9.50am	The transforming coastline of Tamaki Makaurau in the wake of a triple dip La Nina cycle Matthew McNeil, Auckland Council	The influence of nearshore submerged flats structures on wave refraction and energy distribution patterns Raphael, Krier-Mariani, Dunedin City Council	
9.50 – 10.10am	An adaptation planning decision-making process for infrastructure owners Sian A. John, Haskoning New Zealand	Cliff erosion by wave abrasion: Insights from wave flume experiments Yaxiong Shen, University of Auckland	
10.10 – 10.30am	Tailoring hazard management responses - Bridging the gap between policy direction and real-world feasibility in coastal management Ivana Jurasovic, Davis Coastal Consultants	TBC	
10.30 – 10.50 am	Morning Tea		
Session 6	Special session – Land based inputs and nearshore coastal ecosystems Natusch Ball Room Chair – Karen Bell	Coastal hazards/Coastal change/Assets Breakout Room 2 Chair – Colin Whittaker	
10.50 – 11.10am	The value of intact marine ecosystems – can we please manage for that? David Schiel, University of Canterbury	Hydrodynamic Modelling of Circulation and Sediment Transport in Hawke Bay and the Impacts of Cyclone Gabrielle Ted Conroy, eCoast	
11.10 – 11.30am	Focusing indigenous knowledge and community on reef resilience Rahera Ohia, University of Waikato	Otago coastal hazards monitoring planning Julion Wright, Otago Regional Council	
11.30 – 11.50am	Evidence of coastal darkening and marine darkwaves: Towards an operational framework leveraging remote sensing to link land practices to coastal ecosystems health in Aotearoa New Zealand François Thoral, University of Waikato	Christchurch City Council's Coastal Hazards Adaptation Planning Programme: planning, education and collaboration Tom Simons-Smith, Christchurch City Council	
11.50 – 12.10pm	What happens to coastal productivity when the lights go out and reefs are buried in mud? Christopher Battershill, University of Waikato		
12.10 – 12.30pm	Conference Awards and closing Natusch Ball Room		
12.30 - 1.30pm Lunch			