


Wednesday 22 November			
11:30 – 12:15	Registration & Coffee		
12:15 – 12:45	Mihi Whakatau – Welcome and Conference Opening NZCS Conference Chair, Sam Morgan		
12:45 – 1.30	Lunch		
<b>SESSION 2</b> 	<b>Engineering and Shoreline Management</b> Space 1 Morgan Harvie	<b>Coastal Hazards</b> Space 2 Emily Lane	<b>Planning and Policy</b> Grand Space Jenni Fitzgerald
1:30 - 1:50	<b>Hypsometric and Geometric Controls on Hydrodynamics, Tidal Asymmetry, and Sediment Connectivity in Shallow Estuarine Systems</b> Dr Peter de Ruiter - SLR Consulting	<b>Bay of plenty regional coastal inundation hazard assessment</b> Dr Cyprien Bosserelle - National Institute of Water & Atmospheric Research Ltd	<b>Scale and EBM: Navigating mismatches between socio-ecological systems</b> Elizabeth Macpherson - University of Auckland
1:50 - 2:10	<b>Pakawau Coastal Protection – The Case for Hard Protection and Social Justice</b> Gary Teear - OCEL – Offshore & Coastal Engineering Ltd.	<b>Modelling cascading tsunami inundation impacts relative to projected sea level rise from a Tonga-Kermadec Arc eruption in the Bay of Plenty, New Zealand</b> Zoë Bowbrick - University of Portsmouth   National Institute of Water & Atmospheric Research Ltd (VIDEO)	<b>Designing Law and Policy for Marine Ecosystems</b> Associate Professor Elizabeth Macpherson - University of Canterbury
2:10 - 2:30	<b>Te Ara Tupua – No ordinary shared path: An innovative approach to coastal resilience</b> Michael Paine - Tonkin + Taylor	<b>When do we leave? Modelling the impact of erosion on the north Auckland coastal cliff-top property market</b> Sophie Kolston - University of Auckland	<b>Benthic Terrain Modelling Across the Hauraki Gulf: Habitat Identification and Human Impacts</b> Dr Sam Davidson Ocean Sediments – National Institute of Water & Atmospheric Research Ltd
2:30 – 3.15	Afternoon Tea		
3:15 – 4:00	<b>Keynote</b> Gemma Greenshields <i>Living and engaging through adaptation</i>		
<b>SESSION 3</b>	<b>Engineering and Shoreline Management</b> Space 1 Mike Allis	<b>Physical Processes</b> Space 2 Ben Tuckey	<b>Resilience and Adaptation to Change</b> Grand Space Emma Ryan

4:00 – 4:20	<b>BlueFloat Energy and the Offshore Winds of Change</b> Tom Young - BlueFloat Energy	<b>Eddy-driven cross-shelf exchange in the East Auckland Current system</b> Dr. Rafael Santana - National Institute of Water & Atmospheric Research Ltd	<b>Regenerative tourism and coastal social-ecological resilience: the case of tōtaranui/queen charlotte sound</b> Fenjie Qi - Massey University
4:20 – 4:40	<b>Understanding the dynamics of an ebb tide delta to assess the feasibility of a greenfield port</b> Andrew Brown - Tonkin + Taylor Ltd	<b>Impact-based coastal flood thresholds and high-quality tide gauge datasets for risk assessments</b> Ben Hague - Australian Bureau of Meteorology	<b>Co-designing research for environmental, social, and cultural benefit: tātaihia te parataiao o te wahapū – hokianga harbour sedimentation project</b> Dr Kyle Bland - GNS Science
4:40 – 5:00	<b>Engineering and Shoreline Management, Planning for a resilient future</b> Chris Fleury - Westlock Concrete Solutions	<b>Sediment dynamics in the Hokianga Harbour tidal estuary</b> Dr Karsten F. Kroeger - GNS Science	<b>How might the iconic nelson boulder bank be affected by climate change?</b> Dr Chris Cameron - Pattle Delamore Partners
5.30 – 7.30	NZCS/PIANC Young Professionals Networking (Foxglove, Queens Wharf)		



Bought to you by:

## Thursday 23 November

Eric Verstappen Young Professional Breakfast (Two Grey – 2 Grey Street, Wellington)

7:30 – 8:45

Bought to you by: **Jacobs** Challenging today.  
Reinventing tomorrow.

8:00 – 8:55

**Registration and Tea Coffee**

9:00 – 9:45

**Keynote**

Dr Dan Hikuroa

*Integration of Mātauranga Māori and Western Science*

**SESSION 4**

**Engineering and Shoreline Management**

Space 1

Dylan Barnfield

**Physical Processes**

Space 2

Megan Oliver

**Planning and Policy**

Grand Space

Shari Gallop

9:50 – 10.10

**Ōpōtiki Harbour Development- Construction Challenges at the end of a Sand Spit**  
Grant Pearce - Tonkin + Taylor

**Stormy weather: the response and resilience of a rapidly subsiding New Zealand mangrove-forest to an extreme storm-tide event**

Dr Andrew Swales - National Institute of Water & Atmospheric Research Ltd

**Dynamic Adaptation Pathway Planning for operational resilience of Devonport Naval Base**

Laura Robichaux - BECA

\*Come from resilience and adaption to change stream

10.10 – 10.30

**Coastal erosion management for ECMT at Ōtamarākau, Bay of Plenty**  
Dr Michael Allis - Beca Ltd

**Wave set-up in constricted estuaries**

Dr Christo Rautenbach - National Institute of Water & Atmospheric Research Ltd.

**Waikato Regional Seascape Study within the Coastal Marine Area**

Julia Wick - Boffa Miskell Ltd

10:30 – 10.50

**Mapping New Zealand 2025 – Coastal Mapping filling in the missing piece**

Graeme Blick - Toitū Te Whenua Land Information New Zealand

\*From data collection monitoring and mapping stream

**Coastal Receiving Environment Scenario Tool (CREST)**

Ben Tuckey - DHI


**Urban Form & Flood Resilience: Balancing Flood Adaptation and Climate Change Mitigation Strategies in Coastal Cities**


Dr Sara Shabahang - Beca Ltd.


10.50 – 11.20

**Morning Tea**

<b>SESSION 5</b>	<b>Working with Nature Space 1 Alison Clarke</b>	<b>Data Collection, Monitoring and Mapping Space 2 Sam Olufson</b>	<b>Resilience and Adaptation to Change Grand Space Laura Robichaux</b>
<b>11.20 – 11.40</b>	<b>Work that nature does for people: applying the ecosystem service concept to coastal and estuarine environmental management</b> Dr Drew Lohrer - National Institute of Water & Atmospheric Research Ltd	<b>Post Cyclone Gabrielle Hydrographic Survey Response</b> Hayes Ballantyne - Discovery Marine Ltd	<b>Marlborough sounds future access study</b> Courtney McCrostie - Stantec
<b>11.40 – 12.00</b>	<b>Nature-based solutions in Fiji: Waikalou development</b> Cole Burmester - Beca Ltd	<b>Littorally Joining Land and Sea</b> Jennifer Coppola - Toitū Te Whenua Land Information New Zealand	<b>Costing coastal adaptation options: not 'who pays', but 'what do they cost'?</b> Dr Chris Cameron - Pattle Delamore Partner
<b>12.00 – 12.20</b>	<b>Nature's Armour: Exploring a Green Solution for Wave Overtopping</b> Holly Blakely - University of Auckland   Tonkin + Taylor	<b>A cost-effective telemetered system for continuous monitoring of bed elevation, water level and waves in estuaries</b> Dr Iain MacDonald - National Institute of Water & Atmospheric Research Ltd	<b>Auckland transport's adaptation and resilience work progress</b> Ashishika Sharma - Auckland Transport
<b>12.20 – 12.40</b>	<b>Adapting Coastal Hazard Management: Exploring Nature-Based Approaches and Conservation Benefits</b> Dr Teresa Konlechn - University of Otago	<b>Accurate and Repeatable Bathymetry Mapping for Enhanced Understanding of Coastal Physical Processes and Natural Cycles</b> Jimmy Van der Pauw - Discovery Marine Ltd	<b>Engaging to adapt: a discussion on retreat</b> Monique Eade - Jacobs
<b>12.40 – 2.00</b>	<b>Lunch / Poster Session / AGM</b>		
	<p><b>Poster Presentations</b></p> <p>Kate Clark: <b>How will earthquakes move Aotearoa New Zealand's coastlines? Early progress toward a nationwide probabilistic coastal coseismic displacement hazard model</b></p> <p>Laura Robichaux: <b>Measuring Vulnerability for Adaptation: Approaches and Challenges</b></p> <p>Don Neale: <b>DOC Marine Reserve Ranger network – Connect with us on projects and opportunities!</b></p> <p>Dr. R. Paul Wolf: <b>A glimpse into an indicator (Capitella spp.) species with a complex</b></p> <p>Dr. R. Paul Wolf: <b>What Lives In and On the Shell of Pāua? Infestation and Epibionts on Haliotis iris from Kaikōura</b></p> <p>Dr. R. Paul Wolf: <b>Passive Migration of Abalone Offspring Through Utilisation of Water Turbulences by Juveniles of Haliotis iris</b></p> <p>Anne-Fleur van Leeuwen: <b>Understanding the temporal and spatial extent of the river plumes and their biochemical properties within the Kaipara Moana</b></p> <p>Yelana Greig: <b>The Impacts of Introduced Dune-Building Vegetation and Variability in Marine-Fluvial Processes on Estuary Mouth Dynamics</b></p> <p>Dr William Power: <b>Agent models of tsunami evacuation behaviour to improve planning and preparedness</b></p> <p>Louis Alexander: <b>The dietary preferences and feeding ecology of greenbone (Odax pullus)</b></p>		

	Alfredo Jaramillo-Velez: <b>Monitoring rockfalls and landslides from coastal cliffs: can citizen science play a role?</b> Connor McKeown: <b>Sharing the ecotone: Preserving the intertidal zone for human and more than human</b>		
<b>SESSION 6</b> 	<b>Dynamic Adaptation Pathway planning</b> Space 1 Amy Robinson	<b>Coastal Ecology</b> Space 2 Dan Ahern	<b>Resilience and Adaptation to Change</b> Grand Space Michael Paine
<b>2.00 – 2.20</b>	<b>Dynamic Adaptive Pathways planning in a shrinking adaptation space- lessons learned.</b> Dr Judy - Te Herenga Waka, Victoria University of Wellington	<b>Traditional management of coastal creatures in Aotearoa</b> Dr Vanessa Taikato - Tonkin + Taylor	<b>An adaptive pathway approach to coastal flood risk management: ministry of education coastal flood risk project</b> Amanda Riddle and Isabelle Farley - WSP
<b>2.20 – 2.40</b>	<b>Riding the DAPP wave – a stocktake of Dynamic Adaptation Pathways Planning along NZ’s coasts</b> Dr Lisa Marquardt - Pattle Delamore Partners Limited	<b>Marine heatwaves devastate <i>Durvillaea</i> bull kelp beds</b> Don Nea - Department of Conservation Te Papa Atawhai	<b>Resilience scoring tools for coastal environments</b> Dr Chris Cameron - Pattle Delamore Partners
<b>2.40 – 3.00</b>	<b>Dynamic Adaptive Pathways Planning: “What is good for everyone is not always good for Māori but what is good for Māori is good for everyone”</b> Dr Shari Gallop - Pattle Delamore Partners Limited	<b>Mudcrete reclamation and potential copper leaching into westhaven marina</b> Ray Chang and Farza Fezi - Beca Ltd	<b>When the ‘short term’ storm happens in the very short term</b> Kate MacDonald - Jacobs
<b>3.00 – 3.20</b>	<b>Transforming coastal lowland systems threatened by sea-level rise into prosperous communities using agent-based modelling, serious games and virtual policy simulations</b> Dr Andrew Allison - National Institute of Water & Atmospheric Research Ltd	<b>Fico.... what? A not-so-new Alien is beginning to raise concerns.</b> Dr R. Paul Wolf - Ocean Wolf	<b>Coastal adaptation planning in Ōtautahi Christchurch: key steps and lessons learnt.</b> Sarah Pahlen and Mr Tom Simons-Smith - Christchurch City Council
<b>3.20 – 3.50</b>	<b>Afternoon Tea</b>		
<b>SESSION 7</b>	<b>Coastal Hazards</b> Space 1 Derek Todd	<b>Physical Processes</b> Space 2 Andrew Swales	<b>Resilience and Adaptation to Change</b> Grand Space Dr Sarah McSweeney (TBC)
<b>3.50 – 4.10</b>	<b>Regional specific impacts based warnings for coastal weather events</b> Celeste Davies-Calway - Waikato Regional Council	<b>Ensemble modelling of storm surge from ex-tropical Cyclone Gabrielle</b> Dr Emily Lane - National Institute of Water & Atmospheric Research Ltd	<b>Coastal community engagement in the mission to map the seabed by year 2030</b> Belen Jimenez - National Institute of Water & Atmospheric Research Ltd.   Seabed2030

4.10 – 4.30	<b>Analysing coastal flooding uncertainties with global sensitivity: insights from Orewa beach, Aotearoa New Zealand</b> Charline Dalinghaus - The University of Auckland	<b>Speeding up tsunami inundation forecasting with machine learning</b> Dr Aditya Gusman - GNS Science New Zealand	<b>Experimental spaces: connecting diverse skills and knowledges to better understand and address social vulnerability to coastal climate change.</b> Dr Danielle Johnson - National Institute of Water & Atmospheric Research Ltd
4.30 – 4.50	<b>Compound flooding in Porangahau, Hawke's Bay due to the ex-Tropical Cyclone Gabrielle</b> Dr Zhonghou Xu - National Institute of Water & Atmospheric Research Ltd	<b>Understanding coastal hazards in tropical and temperate environments</b> Dr Dougal Greer - eCoast	<b>Using a web-based risk platform, the resilience explorer, to prioritise a programme of climate adaptation planning in the far north</b> Mitchell Anderson - Adapterra Ltd (for Far North District Council)
4.50– 5.10			<b>From dynamic adaptive planning to design for implementation</b> Jose Beyer - IHBEYA
6.00 – 7.00	<b>Pre-Dinner Drinks (Rydges Hotel)</b>		
7.00 - Late	<b>Conference Dinner (Rydges Hotel)</b>		
			<b>Bought to you by:  BECA</b>

Time	Friday 24 November		
8:00 – 8:55	Registration & Coffee		
9:00 – 9:55am	<p style="text-align: center;"><b>PANEL SESSION</b></p> <p style="text-align: center;"><b>Thresholds, triggers and signals: Implementing adaptation plans</b></p> <p style="text-align: center;"><b>Panel members:</b> Ashishika Sharma - Auckland Transport; Monique Eade - Jacobs (Previously Hurunui District Council) and Tom Bowen - Horizons Regional Council</p> <p style="text-align: center;"><b>Facilitated by:</b> Nikki Williams</p> <p style="text-align: right;"><b>Sponsored by:</b>  <b>Tonkin+Taylor</b></p>		
<b>SESSION 8 (1)</b>	<b>Data Collection, Monitoring and Mapping</b> Space 1 Verity Taylor	<b>Coastal Ecology</b> Space 2 Don Neale	<b>NIWA Field Trip</b>
10:00 – 10:20	<b>A new wave monitoring network for Canterbury: development and applications</b> Dr Sarah McSweeney - University of Canterbury	<b>Developing guidance for marine offsetting and compensation in NZ</b> Megan Oliver - Greater Wellington Regional Council	
10:20 – 10:40	<b>XblocPlus and earthquakes – multi modal revetment design</b> Verity Taylor - Tonkin + Taylor   Te Ara Tupua Alliance <u>*From engineering and shoreline management stream</u>	<b>The Search for Replacement Crayfish Habitat</b> Daniel Ahern - SLR Consulting	
10:40 – 11:00	<b>Coordinated approach to mapping Aotearoa’s seafloor</b> Stuart Caie - Toitū Te Whenua Land Information New Zealand	<b>Ecological Processes Involved in Sustainably Managing Finfish Aquaculture</b> Dr Jack O’Carroll - SLR Consulting	
11:00 – 11:30	<b>NIWA &amp; ‘Project Reef’ Combining resources and knowledge a multibeam mapping 250 km route track captures an extensive mosaic of sub-tidal reefs “worthy of careful management”</b> Karen Pratt - Project Reef South Taranaki	<b>Interacting stressors erodes ecological resilience in coastal ecosystems</b> Professor Conrad Pilditch - University of Waikato	