


Click presentation titles for presentation abstracts

Colour key/Themes below:

Keynotes	Planning & People	Ports & Infrastructure	Science	Nature & Ecosystems	<a href="#">Student Presenters</a>
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Time	Tuesday 19 November		
6:00 - 7:00pm	Registration		
6:00 – 9.00pm	Ice Breaker Function Botanic, The Terrace, Level 1, 126 Oxford Terrace, Christchurch		
Time	Wednesday 20 November		
7.30 – 9.00am	Eric Verstappen Emerging Professionals Breakfast Tower Room at Chateau on the Park		
	Bought to you by:  <b>Jacobs</b> Challenging today. Reinventing tomorrow.		
8:00 – 9.00am	Registration & Coffee		
9:00 – 9.20am	Mihi Whakatau – Welcome and Conference Opening Ngai Tuahuriri, NZCS Conference Chair, Derek Todd, Cr Greg Bymes (ECan)		
9.20 – 10.20am	Keynote Debbie Tikao Te kori a te kō redefining our sustainable, prosperous future		
10.20 – 10.50am	Morning Tea		
SESSION 1	Coastal Transformation – Special Session Great Hall 2/3 Chair: TBC	Ports and Protection Tower Room Chair: TBC	Science of Physical Processes & Data Collection Great Hall 1 Chair: TBC
10.50pm	Increased exposure of marae to coastal flooding with sea level rise and adaptation learnings of Ngāi Tamawhariua and Maketū Iwi Collective <u>Akuhata Bailey-Winiata</u> – Pattle Delamore Partners	Blocks vs Rocks: Construction Lessons from Te Ara Tupua Hayden Sander – Tonkin & Taylor	A case study: exploring sediment accumulation rates in the Southern Firth of Thames using high-frequency E-SUDS measurements Iain MacDonald- NIWA

11.10pm	<b>Short-term defence for long-term retreat in the Coromandel</b> Sian John - Haskoning NZ	<b>Evaluating EcoReef: An Economical Approach to Mitigate Coastal Erosion in Cape Palliser</b> Charlotte Duke - Jacobs	<b>Urban Beach Responses to Wave Conditions and Storms in Auckland</b> Bernadette Yafar – University of Auckland
11.30pm	<b>Improving our relationship with the coast: collaborative climate action at Waihi Beach</b> Ana Serrano- Bay of Plenty Regional Council	<b>Unravelling sediment transport pathways in a complex ebb-tidal delta and predicting channel sediment infill</b> Mariana Cussioli – MetOcean Solutions	<b>Deep learning in the shallows: An automated approach to mapping variability of hāpua morphodynamics in Aotearoa New Zealand</b> Alaina Baker – University of Canterbury
11.50pm	<b>A new national typology of coastal change for Aotearoa New Zealand</b> Megan Tuck – University of Auckland	<b>Modelling complex wave environments and novel armour protection: Insights from recent NZ-based physical model projects</b> Jonathan Chan - UNSW Water Research Laboratory	<b>Enhancing coastal monitoring through morphological analysis and satellite imagery: A case study in Hawke's Bay</b> Sarra Ekladios - University of Auckland
12.10pm	<b>Coastal Erosion Hazard Management - what have we learned since the 1970s?</b> Bronwen Gibberd – 4D Environmental Ltd	<b>Repurposing newly-claimed seascapes in the New Zealand context</b> Faye White – Lincoln University	<b>From smartphones to satellite: leveraging different imagery technologies to monitor coastal change and support coastal management</b> Fred Chaaya - UNSW Water Research Laboratory

**12.30 – 1.30pm** **Lunch**

**Field Trips**


- Northern Tour
- Christchurch Walking Tour
- Whakaraupō Lyttelton Harbour Cruise
- Eastern Christchurch



**Bought to you by:**




**NZCS/PIANC Young Professionals Networking**  
 The Craft Embassy, The Terrace, Level 1, 126 Oxford Terrace, Christchurch

**Bought to you by:**



Time	Thursday 21 November		
8:00 – 8:55am	Registration and Tea Coffee		
9:00 – 10.00am	<p align="center"><b>Keynote</b>            Dr Rob Young  <i>The United States East Coast enters the Anthropocene: Engineered sediment fluxes overwhelm natural sediment fluxes</i></p> <p align="right"><b>Bought to you by:</b> </p>		
<b>SESSION 2</b>	<p align="center"><b>Lightning Talks / Poster Session</b>            Great Hall 2/3            Chair: TBC</p>	<p align="center"><b>Science, Sediments and Extreme Events</b>            Great Hall 1            Chair: TBC</p>	
10.00am	<ul style="list-style-type: none"> <li>• <b>Alfredo Jaramillo, Massey University</b> - "An evaluation of Citizen Science approaches to monitor landslides and reduce the associated community risk in coastal cliff environments"</li> <li>• <b>Tommaso Alestra, Boffa Miskell Ltd</b> - "Enhancing marine biodiversity in port areas: insights from Lyttelton Port Company"</li> <li>• <b>Hayley Swan, Stantec</b> - "Restoration Plan for Te Awarua-o-Porirua"</li> <li>• <b>Paul Hart, Bluemont</b> - "Bluemont Rock Bags for Coastal Flood &amp; Erosion Protection"</li> <li>• <b>Fred Waiker, EcoReef</b> - "Ecoreef"</li> <li>• <b>NIWA</b></li> <li>• <b>Eliot Sinclair</b></li> </ul>		<p align="center"><b>The Impact of Extreme Weather Events on Estuarine Sediment Pathways and Estuarine Infilling</b>  <u>Sanne Vaassen</u> – University of Auckland</p>
10.20am	<p align="right"><b>Bought to you by:</b>            Boffa Miskell </p>		<p align="center"><b>Cyclone Gabrielle sediment impacts on the seabed environment off Te Matau a Māui/Hawke's Bay and Tairāwhiti/Gisborne coasts</b>            Alan Orpin - NIWA</p>
10.40 – 11.10am	Morning Tea		
<b>SESSION 3</b>	<p align="center"><b>People and Coasts</b>            Great Hall 2/3            Chair: TBC</p>	<p align="center"><b>Mapping</b>            Tower Room            Chair: TBC</p>	<p align="center"><b>Nurturing Nature</b>            Great Hall 1            Chair: TBC</p>

11.10am	<b>Factors that influence the local coastal knowledge of surfers in Aotearoa</b> <u>Oakley Campbell</u> - Lincoln University	<b>3D Coastal Mapping – Improving key baseline datasets</b> Stuart Caie - Toitū Te Whenua Land Information New Zealand	<b>Nature's Shield 1: The Wi Neera to Onepoto Project – Engineering Differently</b> Michael Paine - Tonkin & Taylor
11.30am	<b>“Sign new lease or face eviction: D-day looms for Selwyn Huts residents”</b> Monique Eade - Jacobs	<b>Seeing the seafloor: can we do better?</b> Sam Davidson - NIWA	<b>Nature's Shield 2: Leveraging Saltmarsh Vegetation for Coastal Protection</b> Holly Blakely – Tonkin & Taylor
11.50am	<b>How can a hierarchical geomorphic framework be used to improve coastal management on the East Otago Coast?</b> <u>Ruby Hudson</u> - University of Otago	<b>Producing a nationwide hydrologically conditioned DEM</b> Rose Pearson - NIWA	<b>A community of practice for carbon storage in coastal wetlands around Aotearoa New Zealand</b> Joe Prebble – GNS Science
12.10pm	<b>A landowner's guide to coastal erosion</b> Alison Clarke – SLR Consulting Ltd	<b>Using low-cost GNSS receivers for precise measurements in the marine environment</b> Emily Tidey - University of Otago	<b>Forests on the brink: exploring the fate of Pacific atoll mangrove forests under rising seas</b> Andrew Swales - NIWA
12.30 – 1.30pm	<b>Lunch</b>		
<b>SESSION 4</b>	<b>Science of Waves</b> Great Hall 2/3 Chair: TBC	<b>Planning</b> Tower Room Chair: TBC	<b>Ecology, Indigenous knowledge and Mātauranga Maori</b> Great Hall 1 Chair: TBC
1.30pm	<b>25-years of wave monitoring offshore of Steep Head, Te Pātaka-o-Rākaihautū/Banks Peninsula</b> Cyprien Bosserelle - NIWA	<b>What matters most... thresholds?</b> Laura Robichaux - Beca	<b>Ancient and contemporary community coastal structures in Australia</b> James Carley – UNS Water Research Laboratory
1.50pm	<b>Wave Forecast Investigations around Aotearoa New Zealand</b> Rafa Santana - NIWA	<b>Dynamic adaptive pathways planning for adaptation: Lessons learned from a decade of practice in Aotearoa New Zealand</b> Judy Lawrence and Shari Gallop (Co-Presenters) - Victoria University and Pattle Delamore Partners	<b>Coastal resilience AND coastal enhancement: could a chenier ridge enhance ecological and cultural values of Thames whilst saving money on rocks and protecting houses?</b> Jamie Boyle - Thames Coromandel District Council
2.10pm	<b>South Island Wave Monitoring Network: Updates and one year of data</b> Sarah McSweeney – University of Canterbury	<b>Adaptive tools for coastal infrastructure adaptation in an uncertain climate</b> Andrew Allison - NIWA	<b>Rewilding Bluff Harbour via active marine restoration: Sea Nest/Kōhanga Moana Pilot Study</b> Bryony Miller - e3Scientific Ltd

2.30pm	<p><b>On the use of regression models to reconstruct time series of wave buoy data in Hawke's Bay</b> Joao Albuquerque – Hawkes Bay Regional Council</p>	<p><b>Adaptation knowledge sharing: how the ACAN and PEERS communities of practice are helping bridge the science-policy-implementation gap</b> Matthew de Boer – PEERS Oceania</p>	<p><b>Building a reef as part of a major infrastructure project, Te Ara Tupua, Wellington</b> Marcus Cameron – Tonkin &amp; Taylor</p>
2.50pm	<p><b>Modelling dynamic inundation from waves</b> Eddie Beetham – Tonkin &amp; Taylor</p>	<p><b>Some pitfalls of a risk-based approach to adaptation planning</b> Rob Bell – Bell Adapt Ltd</p>	<p><b>A collaboration of mātauranga Māori and western science for monitoring of Pipi (Paphies australis) in Tauranga Harbour</b> Tyla Kettle – Boffa Miskell</p>
3.10 – 3.40pm	<b>Afternoon Tea</b>		
<b>SESSION 5</b>	<p><b>Planning for Hazards</b> Great Hall 2/3 Chair: TBC</p>	<p><b>Wave and Storm Impacts</b> Tower Room Chair: TBC</p>	<p><b>Ecosystems and Environments</b> Great Hall 1 Chair: TBC</p>
3.40pm	<p><b>Auckland Council's Coastal Monitoring Program</b> Aidan McLean - Auckland Council</p>	<p><b>Wave impacts on cliffs and vertical structures: Lessons from the lab and the field</b> Colin Whittaker - University of Auckland</p>	<p><b>Monitoring of Environmental Change due to Conversion of Oyster Farms from Traditional Racks to the Innovative Flip-Farm System</b> Shaw Mead - eCoast</p>
4.00pm	<p><b>Christchurch City Council's Coastal Hazard Adaption Planning Team – The What Why and How</b> Rachel Wilson - Christchurch City Council</p>	<p><b>Cliff erosion due to swash abrasion: An experimental investigation</b> Yaxiong Shen - University of Auckland</p>	<p><b>Setting "limits" or values for estuaries: Opportunities and lessons learnt</b> Anna Madarasz-Smith - Pattle Delamore Partners</p>
4.20pm	<p><b>Up, down and all around. An overview of Environment Canterbury's coastal hazard monitoring program</b> Bruce Gabites - Environment Canterbury</p>	<p><b>The Importance of Storm Duration and Antecedent Beach Conditions in Storm Damage, July 2023 Storm at the Clutha Mouth, Otago</b> Derek Todd - Jacobs</p>	<p><b>Applying the Ecological Impact Assessment Guidelines to a critical infrastructure project in the marine environment</b> Daniel Ahern – SLR Consulting</p>
4.40pm	<p><b>Applying an understanding of vertical land movement in post-quake Christchurch</b> Tom Simons-Smith – Christchurch City Council</p>	<p><b>How important are Ex-Tropical Cyclones in the erosion of marine terraces?</b> Sophie Horton – University of Canterbury</p>	<p><b>Observations and alterations of the opening regime of te Roto o Wairewa: New salinity observations and effects of a proposed fish passage</b> Justin M Rogers – University of Canterbury</p>


6.00 - Late

Conference Dinner  
The Beach – Sumner, 25 Esplanade Sumner, Christchurch

Bought to you by:



Friday 22 November			
9.00 – 10.00am	<b>Keynote</b> Leanne Morgan <i>Impacts of sea-level rise on coastal groundwater</i>		
<b>SESSION 6</b>	<b>Blue Science</b> Great Hall 2/3 Chair: TBC	<b>Forecasting Science</b> Tower Room Chair: TBC	<b>Science of Plastics</b> Great Hall 1 Chair: TBC
10.00am	<b>Groundwater hazards and impacts of sea-level rise on coastal low-elevation zone: Perspectives of practitioners</b> Amandine Bosserelle – University of Canterbury	<b>Operational high-resolution storm tide model for New Zealand (NZ-StormTide)</b> Glen Reeve - NIWA	<b>Carparks to Cockles-Plastic Pollution Pathways in Te Taitokerau (Northland)</b> Nick Bamford – Northland Regional Council
10.20am	<b>Towards a national shallow groundwater hazard exposure assessment: statistical modelling of water table depth in New Zealand’s coastal lowlands</b> Zeb Etheridge - Komanawa Solutions Ltd	<b>Forecasting inundation maps in real-time with machine learning: A Westport case-study</b> Deidre Cleland - NIWA	<b>Quantification and Characterisation of Microplastics in Remote Fiords’ and Highly Populated Harbours, Two Extremes of Aotearoa - New Zealand</b> Hayden Masterton - Institute of Environmental Science and Research
10.40am	Morning Tea		
<b>SESSION 7</b>	<b>Infrastructure Risks</b> Great Hall 2/3 Chair: TBC	<b>Beach Behaviour</b> Tower Room Chair: TBC	<b>Tsunami’s and Extreme Sea Level</b> Great Hall 1 Chair: TBC
11.10am	<b>How to design trigger levels for adaptation using mean sea level measurements</b> Zhonghou Xu - NIWA	<b>What’s in a shoreline? From single to multi-proxy coastal change assessment</b> Mark Dickson – University of Auckland	<b>Tsunami-tide interaction in Foveaux Strait and Bluff Harbour</b> Gael Arnaud - MetService
11.30am	<b>Coastal Flooding Impacts on New Zealand’s Interdependent Infrastructure Networks</b> Conrad Zorn – University of Auckland	<b>The Beach is Back! A story of natural shoreline recovery after Cyclone Gabrielle</b> Kate MacDonald - Jacobs	<b>How coastal ecosystems can help to mitigate tsunami impact in New Zealand?</b> Jean Roger – GNS Science
11.50am	<b>Climate change risk to supply chains – national road distribution from ports</b> Chris Cameron – Pattle Delamore Partners	<b>Historic Data vs Bruun Rule - Alternate Methodology for Predictions of Soft Sediment Shoreline Retreat due to Sea Level Rise</b> Craig Davis – Davis Coastal Consultants	<b>The use of joint-probability analysis within coastal hazard assessments in NZ</b> Scott Stephens - NIWA
12.10 – 1.10pm	Lunch   NZCS AGM Great Hall 2/3		

<b>SESSION 8</b>	<p><b>The Future of our Coasts</b>          Great Hall 2/3          Chair: Sarah McSweeney</p>	<p>Great Hall 1          Chair: TBC</p>
1.10pm	<p><b>Panel Workshop</b></p> <p><b>Part 1: 'Protecting the future: Engaging children and young people in climate policy and action'</b>  <i>Presenters: Sian Carvell (Future Curious), Keegan Verster (16yrs, Next Generation Conversation); Bronte Fitzhardinge (13yrs, Next Generation Conversation).</i>          Sian, Bronte and Keegan will share their experiences and expertise on climate change education and the value of an intergenerational equity approach to climate change policy and action.</p> <p><b>Part 2. "Hopes and Challenges for the Future of Our Coast: A panel discussion"</b>  <i>Presenters: Alaina Baker (University of Canterbury, NZCS Scholarship winner 2024), Sanne Vaassen (University of Auckland, NZCS Scholarship winner 2024), Bronte Fitzhardinge (13yrs, Next Generation Conversation).</i>          In this panel the voices of our next generation will discuss some of the key challenges they see for the New Zealand coastal environment and communities and their hopes for the future. We welcome discussion between the panel but also with the audience</p> <p>Bought to you by:</p> 	<p><b>Investigating the connection between metocean conditions and boating safety: An analysis of incident data</b>          Christo Rautenbach - NIWA</p>
1.30pm		<p><b>Mataikona Road Coastal Resiliency Study</b>          Ryan Abrey - Stantec</p>
1.50pm		<p><b>Field Monitoring and its Role in Advancing Complex Hydrodynamic Modelling at Te Wai Manawa   Little Shoal Bay</b>          Peter Quilter – Tonkin &amp; Taylor</p>
2.10pm	<p><b>End Note</b>          Fernando Mendez  <i>Compound coastal flooding risk in a changing climate in areas affected by extra tropical and tropical cyclones</i></p>	
2.50 - 3.10pm	<p><b>Conference Awards and Closing</b></p>	