

# TE TAI WHANAKE

Growing a stronger, more resilient Aotearoa.

Te Papa, Wellington 13 & 14 May 2024

## DAY 1 PROGRAMME

9am Registration; tea & coffee

9.45am Mihi Whakatau

10am Welcome

Melanie Mark-Shadbolt, RNC Governance Group Co-Chair  
Dr Jessica Hutchings, RNC Governance Group Co-Chair  
Dr Richard Smith, RNC Director

10.30am Paramanawa | Morning Tea

11am **PLENARY 1 - Learning From past events to lift community resilience**

OCEANIA

*What have we learned from events like the Kaikōura earthquake and Cyclone Gabrielle? How did science contribute at the community, local and national levels, and how can the links between science, research, and innovation be enhanced for future events?*

Tom Wilson, NEMA Chief Science Advisor (Chair)  
Ngarangi Walker, Te Rūnanganui o Ngāti Porou (Keynote)  
Murry Cave, Gisborne District Council  
Andrea Wolter, GNS Science  
Liam Wotherspoon, University of Auckland  
David Johnston, Joint Centre for Disaster Research  
Christine Kenney, Massey University

12.30pm Kai Tina | Lunch

1.30pm **PLENARY 2 - The evolving approach to Catastrophic Risk for Aotearoa New Zealand**

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*What does the latest science tell us about what we can realistically expect from future events? What is the new approach to national planning for catastrophes, and how can we avoid the worst consequences, and make conscious choices about the risk we prepare for and manage?*

Jenna Rogers, NEMA (Chair)  
Sarah Holland, NEMA  
Bill Fry, GNS Science  
Tom Wilson, NEMA | University of Canterbury  
Kristie-Lee Thomas, University of Canterbury  
Jamie Ruwhiu, Ngāi Tahu  
Richard Turner, NIWA

3pm Paramanawa | Afternoon Tea

3.30pm **BREAK OUT SESSIONS:**

RANGIMARIE 1

### Hazard & Risk Communication

*What does the latest research tell us about the most effective ways to communicate risk that build trust and support communities to take positive action?*

Julia Becker, Joint Centre for Disaster Research (Chair)  
Sally Potter, GNS Science  
Lauren Vinnell, Joint Centre for Disaster Research  
Mary Anne Clive, GNS Science  
Manomita Das, Joint Centre for Disaster Research

RANGIMARIE 2

### Technology & Data Innovation

*How is technology contributing to resilience building and emergency management, and where are opportunities for innovation for Aotearoa New Zealand?*

David Johnston, Joint Centre for Disaster Research (Chair)  
Andrea Wolter, GNS Science  
Max Stephens, University of Auckland  
Murray Ford, University of Auckland  
Tom Robinson, University of Canterbury  
Raj Prasanna, Joint Centre for Disaster Research  
Andy Nicol, University of Canterbury

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### Decision-making for integrated hazard risk management

*Currently, decision-makers have to mediate considerable institutional, professional, and political risks that arise from mitigating natural hazards, such as how sure are we? How much will it cost? Who pays? What should we prioritise? What arrangements or capability would improve a whole of nation approach to assessing and managing our significant natural hazard risks (and other threats)?*

Jo Horrocks, EQC Toka Tū Ake (Chair)  
Iain White, University of Waikato  
Sarah Beaven, University of Canterbury  
Nicky Eaton, DPMC  
Sarah-Jayne McCurrach, EQC Toka Tū Ake  
Holly Faulkner, University of Canterbury  
Garry McDonald, Market Economics

5pm **Networking & Poster Session**

7.00pm **Celebration Dinner**

**WELLINGTON FOYER, TE PAPA**

Featuring: Mike McRoberts (Dinner Speaker) & The Hustle (Live Music)

# DAY 2 PROGRAMME

8.30am Registration; tea & coffee

9am **PLENARY 3 - Adaptation for natural hazard resilience**

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*Adaptation to natural hazards is essential for our communities and infrastructure facing the recurring effects of disruptive natural hazards now and into the immediate future. What does adaptation look like in different contexts and how can the latest research findings and tools support communities and government through the complexity of adaptation decisions?*

Nick Cradock-Henry, GNS Science (Chair)  
Iain White, University of Waikato  
Wendy Saunders, EQC Toka Tū Ake  
Akuhata Bailey-Winiata, University of Waikato  
Judy Lawrence, Te Herenga Waka Victoria University of Wellington  
Lara Taylor, E Oho!  
Tom FitzGerald, Aotearoa Climate Adaptation Network | Wellington Regional Leadership Committee

10.30am **Paramanawa | Morning Tea**

11am **Wānanga: Kaupapa Māori Approaches To Disaster Research & Resilience**

RANGIMARIE 1+2

*Hapori Māori (Māori communities) are often disproportionately affected by natural hazards such as coastal erosion, flooding, wildfires and volcanic eruptions. Māori also hold an important role as kaitiaki of their local environments, and their knowledges of past natural hazard events and impacts can inform strategies to build resilience. Join this wānanga to explore the new body of mātauranga informing frameworks, tools, and strategies for improved resilience for tangata whenua and wider Aotearoa New Zealand.*

Topic 1: Exploring the role of kōrero tuku iho in re-defining the way we engage with rangahau and our taiao.

Topic 2: How have we used tikanga and traditional practices within Challenge research projects.

Topic 3: Making the most of connecting Challenge rangahau to Māori communities – going beyond conventionalism.

**Infrastructure Resilience**

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*The resilience of infrastructure underpins societal wellbeing and economic prosperity. Infrastructure resilience not only minimises the disruption of critical services but also ensures the rapid recovery of communities post a natural hazard event. What new design and engineering innovations are contributing to the essential goal of reducing the vulnerability of our buildings and infrastructure networks to natural hazard risk?*

Roger Fairclough, Climate Adaptation Platform | Neo Leaf Global (Chair)

Tim Sullivan, University of Canterbury  
Liam Wotherspoon, University of Auckland  
Kaley Crawford-Flett, University of Auckland  
Amelia Lin, University of Auckland  
Charlotte Toma, University of Auckland  
Caleb Dunne, EQC Toka Tū Ake  
Kākati Royal, AECOM

12.30pm **Kai Tina | Lunch**

1.15pm **Multihazard Risk Assessment**

RANGIMARIE 1+2

*What are the new advances in understanding and modelling individual, cascading and coincident hazards, and how are they being applied to improve hazard risk management?*

Graham Leonard, GNS Science (Chair)  
Bill Fry, GNS Science  
Mark Dickson, University of Auckland  
Stuart Mead, Massey University  
Richard Turner, NIWA  
Christina Magill, GNS Science  
Juan Monge, Market Economics  
Anthony Cole, Te Toi Ōhanga

**Community Resilience**

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*Every community in Aotearoa New Zealand faces some form of natural hazard risk, and many face multiple and compounding threats. What are the successful strategies to prepare our diverse communities for sudden events such as earthquakes and tsunamis, as well as slow-building threats brought on by a changing climate.*

Caroline Orchiston, University of Otago (Chair)  
Lucy Kaiser, GNS Science | Massey University  
Denise Blake, Te Herenga Waka Victoria University of Wellington  
Jon Procter, Massey University  
Loic le De, Auckland University of Technology  
Sylvia Tapuke, Scion  
Gradon Diprose, Manaaki Whenua Landcare Research  
Joanna Fountain, Lincoln University

2.45pm **PLENARY 4 - Future Aspirations for Collaborative Resilience Science**

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*What is the role of science advice in building societal resilience, planning and emergency response and recovery, through to how collaboration, cross-institutional and cross-disciplinary approaches might endure and how might we mobilise science around complex national issues in the post-NSC environment?*

Andrea Byrom, RNC Governance Group (Chair)  
Dame Juliet Gerard, Prime Minister's Chief Science Advisor  
Acushla (Dee) Sciascia, Rauika Māngai Chair | Massey University  
Jon Procter, Massey University  
Emma Ryan, University of Auckland  
Christine Kenney, Massey University  
Richard Smith, RNC Directorate

3.45pm **Closing Remarks**

4pm **Finish**