International Society for Risk Analysis
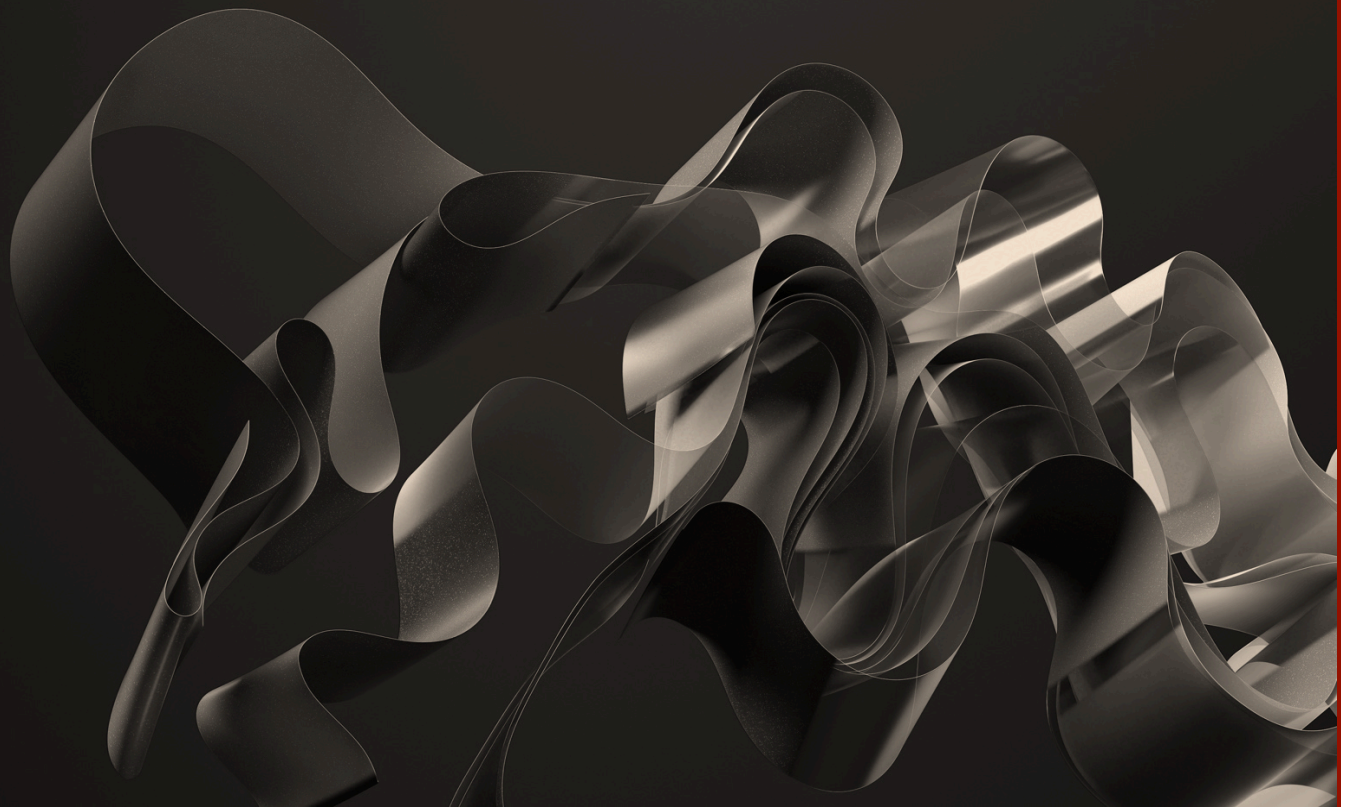
Annual Australia New Zealand Conference 2026

Managing Complexity

Christchurch, New Zealand
January 2026

Welcome

We live in an era defined by complex, interconnected risks, from climate change and infrastructure fragility to biosecurity, social disruption, and political upheaval. Complexity is no longer a unique case but the condition under which we all live and make decisions. This means that no risk exists alone: shocks cascade across systems, impacts ripple across borders, and choices in one domain reverberate in others.

This conference, Managing Complexity, brings together the diverse perspectives of the risk community, from healthcare and environmental change to governance, communication, and community resilience. While the application areas may differ, the underlying challenges of analysing, communicating, and managing risk reveal key commonalities. We encourage you to explore sessions beyond your immediate field. You may be surprised at how insights from wildfire risk can inform biosecurity, how decision frameworks in urban planning resonate with health preparedness, or how narratives shape responses across hazards.

Together, by engaging across disciplines and domains, we advance the science and practice of risk and strengthen our capacity to navigate complexity in Australia, New Zealand, and the wider world. We wish you a successful and enjoyable risk conference!

Your SRA ANZ Committee

Dr Tom Logan (Past-President and Conference Chair), Dr Anna Kosovac (President), Dr Sandra Seno-Alday, Dr Logan Brunner (President Elect), Chantelle Chalmers, and Erica Kecorius.

Location

The conference is held at Chateau on the Park, 189 Deans Avenue, Riccarton, Christchurch.

Keynote speakers

Dr Pia-Johanna Schweizer

Dr Pia-Johanna Schweizer leads the Research Group "Systemic Risk" at the Research Institute for Sustainability (RIFS) at the GFZ Helmholtz Centre for Geosciences, Germany. Her research focuses on systemic risk, risk governance and deliberate decision making under conditions of uncertainty and ambiguity. She also investigates approaches to support decision-making in disaster risk management and aims to improve multi-level governance through enhanced engagement, communication and risk management.

Professor Michael Plank

Michael Plank is a Professor in the School of Mathematics and Statistics at the University of Canterbury and an Investigator at Te Pūnaha Matatini, New Zealand's Centre of Research Excellence in Complex Systems and Data Analytics. Professor Plank's research interests are in mathematical biology and infectious disease dynamics. His work aims to use mathematical techniques and modelling to help answer research questions in application areas and to support policymaking.

Professor Andrew Robinson

Professor Andrew Robinson is a leading authority on biosecurity risk analysis and applied statistics, serving as CEO of the Centre of Excellence for Biosecurity Risk Analysis (CEBRA) and Professor of Applied Statistics at the University of Melbourne. With a rare ability to bridge statistical science and real-world application, Andrew's work informs national and international strategies to protect ecological and economic systems from biosecurity threats.

Programme Day 0

Date:	Wednesday, 28 January 2026	**Time:**	2:00pm – 8:00pm
Venue:	Chateau on the Park		
Registration:	Please find the registration table at the entrance to the Great Hall 2+3		

2:00 – 8:00	Day 0
2:00 – 5:00	Navigating Careers in Risk Workshop – Dr Sandra Seno-Alday - Ballantyne Room
5:00 – 8:00	Poster session and Welcome reception - Great Hall

We would like to express our thanks to our sponsors, LEAD Institute of Law Emergencies and Disasters, Canterbury University.

To find out more about our sponsorship packages for the 2027 conference, please reach out to us on contact@sraanz.org.nz

Programme Day 1

Date:	Thursday, 29 January 2026 **Time:** 8:30am – 5:30pm
Venue:	Chateau on the Park
Registration:	Please find the registration table at the entrance to Great Hall 2+3

8:30 – 9:00	**Registration - Great Hall 2+3**
9:00 – 9:30	Conference Welcome - Great Hall 2+3
9:30 – 10:15	Opening Keynote – Dr Pia-Johanna Schweizer - Great Hall 2+3
10:15 – 10:45	**Morning Tea - Camelot Room**
10:45 – 12:15	**Session 1** – Great Hall 1 - Tower Room
12:15 – 1:00	**Lunch - Camelot Room**
1:00 – 2:30	**Session 2** – Great Hall 1 - Tower Room
2:30 – 3:00	**Afternoon Tea - Camelot Room**
3:00 – 4:30	**Session 3** – Great Hall 1 - Tower Room
4:45 – 5:30	Closing Keynote – Professor Andrew Robinson **-** Great Hall 2+3
6:00	**Informal Dinner** – **Riverside Market, Christchurch CBD**

Programme Day 2

Date:	Friday, 30 January 2026 **Time:** 8:30am – 4:00pm
Venue:	Chateau on the Park
Registration:	Please find the registration table at the entrance to Great Hall 2+3

	Conference Day 2
8:30 – 9:15	Keynote - Professor Michael Plank – Great Hall 2 + 3
9:30 – 11:00	**Session 4** – Great Hall 1, Tower Room
11:00 – 11:30	**Morning Tea** - **Camelot Room**
11:30 – 1:30	**Session 5** – Great Hall 1, Tower Room
1:30 – 2:30	**Lunch - Camelot Room**
2:30 – 3:45	**Governing Complexity Panel** – Great Hall 2+3
3:45 – 4:00	**Closing Remarks – Great Hall 2+3**

Concurrent Sessions | Day 1

Presentation titles and presenters listed. Full abstracts are available on the SRA ANZ conference webpage.

Session 1 | 10:45 – 12:15

Great Hall 1		Tower Room	
1A: Risk Management		**1B: Risk Identification**	
Exploring the Impact of Climate Buffers on Business Risk and Resilience: Lessons from Typhoon Haiyan	*Sandra Seno-Alday*	Navigating Wildfire Threats: A Probabilistic Model for Transportation Risk Assessment	*Barry Evans*
Managing risk to coastal infrastructure in a changing climate: A case study for the Kauaeranga Spillway in Hauraki Plains using Bayesian networks	*Annemarie Christophersen*	Tail ends and black swans: Analysing hazard-impact linkages, outliers, and compounding and cascading risks	*Lynette Smith*
What information do people use in performing risk-averse behaviours under a new pandemic? Conjoint and Clustering Analyses in the UK, Japan, and Taiwan	*Naoko Kato-Nitta*	Integrating national-scale hazard models to assess multi-hazard exposure across New Zealand	*Amelia Lin*
Are we still surprised by disasters?	*Astrid Vachette*	Large Language Model Prompting for Hazard Forecasting: A Prototype Approach to Warning Design	*Alberto Ardid*

Session 2 | 1:00 – 2:30

Great Hall 1		Tower Room	
2A: Social Dimensions of Complexity		**2B: Risk Evaluation**	
Worldviews and values: Inclusion of Indigenous perspectives in climate risk assessments	*Marcelle Scadden*	Comparative Approaches to Tsunami Casualty Estimation: Models, Metrics, and Influencing Factors	*Sarra Ekladios*
Broad boundary climate shock risks to irrigated dairy farming	*Zeb Etheridge*	Using evaluation to strengthen biosecurity risk management	*Edith Arndt*
Perceptions of risk and willingness to remain in flood-prone areas when flood frequency increases - insights from Aotearoa New Zealand	*Sarah Harrison*	Water security in an Australian capital city: a clash of evaluative frameworks?	*Lynette Smith*
Estimating impacts of climate change on indigenous life-style and cultural values: The test case of Ovalau Island, Fiji	*Anca Hanea*	Metrics matter: How infrastructure risk metrics influence priorities around climate adaptation planning	*Logan Brunner*

Session 3 | 3:00 – 4:30

Great Hall 1		Tower Room	
3A: Transboundary Risk		**3B: Panel (Risk Research in Australia - NZ)**	
Assessing Risk In and Across Complex, Interdependent Systems: A Research Agenda for Systemic Risk	*Tom Logan*	Panel: Should Risk Research have its own FoR (Field of Research) code for Government funding?	*Moderator: Anna Kosovac*
Bridging Fragmented Silos: An Integrative Analysis Across Six Domains Driving Global Risk	*Matt Boyd*		
Cascading risk archetypes as a way to explore chains of cause and effect regarding climate change risk.	*Paula Blackett*		
Benefits of pre-border capacity-building for biosecurity	*Edith Arndt*		

Concurrent Sessions | Day 2

Presentation titles and lead authors listed. Abstracts can be found on the SRA ANZ conference webpage.

Session 4 | 9:30 – 11:00

Great Hall 1		Tower Room	
4A: Social Dimensions of Complexity		**4B: Risk Assessment**	
The Perfect Storm: How longer appointments, flooding, and migration could break the primary healthcare system	*Darcy Glenn*	Biosecurity pathway risk analysis – case study for rodents on Rakiura, Aotearoa	*Nicholas Moran*
Identifying agent classes for climate change adaptation simulation using a serious online game	*Andrew Allison*	Navigating Seismic Risk: Evaluating Earthquake-Prone Buildings Under Uncertainty	*Juliane Spaak*
Let's Talk About Risk Tolerance: a framework for eliciting public perspectives on risk tolerance	*Charlotte Brown*	Hybrid Flood Prediction for Urban Mobility and Early Warning Systems	*Lea Dasallas*
Partnering with communities for Coastal Hazard Adaptation Planning in Christchurch New Zealand	*Ruby Clark*	The Future of Tourism for People with Disabilities: Scenario Planning to Examine Critical Uncertainties	*Kevin Quigley*

Session 5 | 11:30 – 1:30

Great Hall 1		Tower Room	
5A: Risk Communication and Governance		**5B: Prioritising Resilience**	
Ethics and Morals of Risk Communication: can we manipulate without meaning to?	*Anna Kosovac*	Spatial Multi-Criteria Decision Analysis for Community Risk Prioritisation: An Integrated Framework for Evidence-Based Resilience Planning	*Mitchell Anderson*
Climate Risk Governance and the Role of Inter-Professional Communication	*Nohah Forde*	Integrating urban and climate futures: improving urban growth modelling to plan for future climate uncertainty	*Katherine Booker*
Structural Resilience and Effectiveness of Emergency Collaboration in Megacities: A Network Analysis of Official Documents on Shanghai's Flood and Typhoon Prevention Efforts	*Siyu Yao*	Intersection of risk and resilience	*Liz Varga*
The Multidimensionality of Climate Change Behaviors and the Heterogeneity of Their Determinants	*Dagyum Jung*	Strategic Risk Assessment to Optimise Emergency Response	*Christina Magill*
From Experience to Action: Community-based Preparedness Solutions for Older Persons in Southland	*Brandy Alger*	Tourism Disaster Management: A Social Network Analysis of Nature-based Destinations in Aotearoa New Zealand	*Lucia Danzi*

Panel | 2:30 – 3:45

Great Hall 1 + 2	
Governing complexity	*Panelists: Pia-Johanna Schweizer, Ruby Clark, Lianne Dalziel* *Moderator: Paula Blackett*