

# NATURAL HAZARDS RESEARCH FORUM

ADELAIDE, NATIONAL WINE CENTRE OF AUSTRALIA, 18–20 JUNE 2025



## Transformation to Be Ahead of Ready – using research to act big and bold

Sessions include presentations, panel discussions and engagement opportunities

**Day 1:** Wednesday 18 June 2025

**#NHRF25**

Time	Hickenbotham Hall	Stream 2 – Exhibition Hall
7:30am – 9:00am	<b>Pre-Forum workshop sessions</b> (light breakfast, workshop starts at 9am and concludes at 12pm)	
9:00am – 12:00pm	<b>Support integration of Recovery Capitals in service plans for communities with different levels of social disruption</b> – Prof Lisa Gibbs, University of Melbourne	<b>PhD student symposium</b>
12:00pm – 1:00pm	<b>Lunch on arrival</b>	
1:00pm – 3:00pm	<b>Forum opening including smoking ceremony.</b> This session will be live streamed. <b>Plenary session: keynotes and panels</b> – critical issues and opportunities <b>Session chair</b> – Andrew Gissing, Natural Hazards Research Australia Iain MacKenzie, Chair Natural Hazards Research Australia Brendan Moon AM, Coordinator-General, National Emergency Management Agency Prof Ariella Helfgott, Foresight Director, South Australia Futures Agency Tiahni Adamson, Wildlife Conservation Biologist, 2024 Young South Australian of the Year	
3:00pm – 3:30pm	<b>Afternoon tea</b>	
3:30pm – 5:00pm	<b>Plenary session: keynotes and panels.</b> This session will be live streamed. <b>Centre showcase</b> – research impact <b>Session chair</b> – Rob Webb, AFAC	
5:00pm – 5:30pm	<b>Centre awards</b>	
5:30pm – 7:30pm	<b>Networking drinks and nibbles</b>	

Program current as of 12 May and subject to change

*Day 2 and 3 on  
the next pages* →

For more information and  
details on how to register visit  
[naturalhazards.com.au/nhrf25](https://naturalhazards.com.au/nhrf25)

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# NATURAL HAZARDS RESEARCH FORUM

ADELAIDE, NATIONAL WINE CENTRE OF AUSTRALIA, 18–20 JUNE 2025

## Transformation to Be Ahead of Ready – using research to act big and bold

Sessions include presentations, panel discussion and interaction with delegates

### Day 2: Thursday 19 June 2025

Time	Stream 1 – Hickenbotham Hall	Stream 2 – Exhibition Hall	Stream 3 – Gallery
7:30am – 8:45am	<b>Workshop</b> <b>Storing and sharing qualitative data</b> – Lyndsey Wright, Altometer	<b>Workshop</b> <b>Bushfire information database – scoping study</b> – A/Prof Nader Naderpajouh, University of Sydney	
9:00am – 10:30am	<b>Research project presentations – Enhancing and adapting situational awareness</b> <b>Session chair</b> – Alen Slijepcevic, Country Fire Authority <b>Fire case studies</b> – Dr Mika Peace, Bureau of Meteorology <b>Capturing uncertainty in bushfire spread prediction</b> – Dr Michael Storey, University of Wollongong <b>Identifying and defining landscape dryness thresholds for fires</b> – Dr Jane Cawson, University of Melbourne	<b>Research project presentations – Guiding future governance, strategy and leadership</b> <b>Session chair</b> – Matt Watson, Department of Fire and Emergency Services WA <b>Foundations in Indigenous disaster resilience</b> – Dr Bhiamie Williamson and Lucy Connole, National Indigenous Disaster Resilience and Monash University <b>Evaluating the Resilient Homes Fund – Queensland and NSW</b> – Dr Katie Meissner, University of Queensland <b>Why fly? How do we know that aerial firefighting operations are effective and efficient?</b> – Dr Matt Plucinski, CSIRO <b>Operationalising Aboriginal land and sea management</b>	<b>Research project presentations – Planning for a resilient built environment</b> <b>Session chair</b> – Amanda Leck, NSW Reconstruction Authority <b>Effectiveness of land-use planning flood controls on buildings</b> <b>Insights into temporary and emergency accommodation</b> – Nikhila Madabhushi, Monash University <b>Strengthening energy networks to withstand severe wind and storms</b> – A/Prof Matthew Mason, University of Queensland <b>Safety of alternative and renewable energy technologies</b> – A/Prof David Lange, University of Queensland
10:30am – 11:00am	<b>Morning tea</b>		
11:00am – 12:00pm	<b>Research project presentations – Enhancing and adapting situational awareness</b> <b>Session chair</b> – Steve Muncaster, Victoria State Emergency Service <b>Flash flooding case studies to improve predictions and the communication of uncertainty</b> – Dr Carla Mooney, Bureau of Meteorology <b>Long-range flood outlook for strategic preparedness</b> – Dr Christopher Pickett-Heaps, Bureau of Meteorology <b>Flash flooding case studies to improve predictions and the communication of uncertainty</b> – Dr Carlos Velasco-Forero, Bureau of Meteorology	<b>Research project presentations – Applying data science, technology and management</b> <b>Session chair</b> – Dr Jane Sexton, Queensland Fire Department <b>Managing earthquake risk: unreinforced masonry building database</b> – Dr Hossein Derakhshan, Queensland University of Technology <b>Modelling impacts of natural hazards on interconnected infrastructure networks</b> – A/Prof Matthew Mason, University of Queensland <b>Computational-based approaches to critical infrastructure research</b> – Cameron Atkinson, University of Tasmania	<b>Research project presentations – Supporting safe, capable and thriving workforces</b> <b>Session chair</b> – Jeremy Smith, Tasmania Fire and Emergency Service <b>Best practice for tracking and responding to potentially traumatic event exposure</b> – Alexandra Howard, Phoenix Australia <b>Smoke exposure profiles of bushfire fighters in the south-west ecoregion of Western Australia</b> – Kiam Padamsey, Edith Cowan University <b>The role of trust-building for effective collaboration</b> – Syed Adeel Akhtar, University of Tasmania
12:00pm – 1:00pm	<b>Lunch</b>		

Time	Stream 1 – Hickenbotham Hall	Stream 2 – Exhibition Hall	Stream 3 – Gallery
1:00pm – 3:00pm	<p><b>Research project presentations – Workforce-leadership connections</b>  <b>Session chair</b> – Daniel Austin, NSW State Emergency Service</p> <p><b>The human capacity demands of an emergency manager in Australia</b> – Dr Russell Dippy, Charles Sturt University</p> <p><b>Emergency management volunteering: more than just words</b> – Prof Roger Jones, Victoria University</p> <p><b>Healing country through Wolgalu/Wiradjuri-led land management</b> – Dr Lisa Slater, University of Wollongong</p> <p><b>Colonial load and cultural conflict</b> – Dr Bhiamie Williamson &amp; Zoe Schultz, National Indigenous Disaster Resilience &amp; Monash University</p> <p><b>Cultural land management research and governance in south-east Australia</b> – A/Prof Tim Neale, Deakin University</p> <p><b>Panel</b></p>	<p><b>Research project presentations – Infrastructure – society connections</b>  <b>Session chair</b> – Andrew Coghlan, Australian Red Cross</p> <p><b>Support integration of Recovery Capitals in service plans for communities with different levels of social disruption</b> – Prof Lisa Gibbs, University of Melbourne</p> <p><b>Natural hazards and resilience in complex urban systems</b> – Dr Annette Kroen, RMIT University</p> <p><b>Understanding intangible flood costs and impact</b> – A/Prof Tariq Maqsood, RMIT University</p> <p><b>Community risk assessment</b> – A/Prof Nader Naderpajouh, University of Sydney</p> <p><b>Heatwave resilience and impacts</b> – Dr Sue Heatley &amp; Dr Olga Anikeeva, University of Adelaide</p> <p><b>Panel</b></p>	<p><b>Research project presentations – Mitigation – adaptation connections</b>  <b>Session chair</b> – Daniel Willetts, South Australia Fire and Emergency Services Commission</p> <p><b>Integrated solutions for bushfire-adaptive homes</b> – Dr Mittul Vahanvati, RMIT University</p> <p><b>Conserving and reconnecting floodplains to mitigate flood risk</b> – Dr Jason Alexandra</p> <p><b>Bushfire risk at the rural–urban interface – bushfire behaviour and mitigation strategies</b> – Prof David Bowman &amp; Dr Grant Williamson, University of Tasmania</p> <p><b>Nature positive disaster risk reduction solutions</b> – Jongsok Oh, Suncorp</p> <p><b>Panel</b></p>
3:00pm – 3:30pm	<b>Afternoon tea</b>		
3:30pm – 5:00pm	<p><b>Plenary session: keynotes and panels – learning local and global.</b> This session will be live streamed.</p> <p><b>Session chair</b> – Andrew Gissing, Natural Hazards Research Australia</p> <p>A/Prof Susanna Jenkins, Nanyang Technological University, Singapore</p> <p>Dr Richard Smith, Resilience to Nature's Challenges, New Zealand</p> <p>Distinguished Prof Christine Kenney, Massey University, New Zealand</p> <p>A/Prof Melissa Parsons, University of New England</p> <p><b>Panel</b></p>		
5:30pm – 7:30pm	<b>Networking function</b>		

# PROGRAM



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## Day 3: Friday 20 June 2025

Time	Stream 1 – Hickenbotham Hall	Stream 2 – Exhibition Hall	Stream 3 – Gallery
7:30am – 8:45am	<b>Workshops</b> <b>New research projects showcase</b>		<b>Workshops</b> <b>Assisted Relocation Community of Practice</b> – Andrew Gissing, Natural Hazards Research Australia
9:00am – 9:45am	<b>Plenary session: keynote – do governments trust communities?</b> This session will be live streamed. <b>Session chair</b> – Kate Vinot, Natural Hazards Research Australia Mark Duckworth PSM, Deakin University		
9:50am – 10:30am	<b>Research project presentations – Enhancing and adapting situational awareness</b> <b>Communicating flood risk</b> – A/Prof Jen Seevinck Queensland University of Technology <b>What makes a good fire simulator?</b> – Caitlin Symon, University of Melbourne <b>Bushfire risk at the rural–urban interface – community-centred risk reduction</b> – Dr Sharon Campbell, University of Tasmania	<b>Community engagement relating to floods</b> <b>Session chair</b> – Oshanna Alexander, South Australia SES	<b>Research project presentations – Enabling equitable community resilience</b> <b>First Nations women, cultural fire knowledge, wellbeing and memory</b> – Dr Bhiemie Williamson and Nell Reidy, National Indigenous Disaster Resilience and Monash University <b>Evaluation and monitoring for impact: developing a framework for risk prevention programs</b> – Celeste Young, Victoria University
10:30am – 11:00am	<b>Morning tea</b>		
11:00am – 12:00pm	<b>Research project presentations – Enhancing and adapting situational awareness</b> <b>Predictions in public</b> – Dr Chloe Begg, Country Fire Authority <b>Awareness, education and communication for compound natural hazards</b> – Dr Erin Hawley, Deakin University <b>Multi-hazard public information and warning platforms for the future</b> – A/Prof Paula Dootson, Queensland University of Technology	<b>Indigenous experiences of flooding and implications for community engagement practice</b> <b>Session chair</b> – Oshanna Alexander, South Australia SES	<b>Research project presentations – Enabling equitable community resilience</b> <b>Session chair</b> – Craig Savage, Energy Networks Australia <b>Exploring the role of civic technologies in community decision making in the face of climate change and disaster</b> – Phoebe Quinn, University of Melbourne <b>An online cognitive-behavioural intervention for treatment of insomnia and nightmares in bushfire survivors</b> – Fadia Isaac, Federation University <b>Multi-agency collaboration in disaster recovery after bushfire</b> – Louise Mitchell, University of Sydney
12:00pm – 1:00pm	<b>Plenary session: Tropical Cyclone Alfred – lessons for Australia.</b> This session will be live streamed. <b>Session chair</b> – Prof Cheryl Desha, Natural Hazards Research Australia Jai O'Toole, Australian Red Cross Liz Drumm, Local Government Association of Queensland Dr David Henderson, Cyclone Testing Station, James Cook University Glen Dolan, Energex		
1:00pm	<b>Light lunch, Forum conclusion</b>		

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