

# NATURAL HAZARDS RESEARCH FORUM



ADELAIDE, NATIONAL WINE CENTRE OF AUSTRALIA, 14–16 MAY 2024

## Research with Impact – Provoke, Inspire, Challenge, Be Involved

Program includes keynotes, presentations, panel discussions, workshops and networking.

### Day 1: Tuesday 14 May

# #NHRF24

Time	Title
1:00pm	<b>Welcome</b> Iain MacKenzie, Chair (Natural Hazards Research Australia)
	<b>Welcome to Country</b>
	<b>Opening</b> South Australian dignitaries Brendan Moon, Coordinator-General (National Emergency Management Agency)
	<b>Overview</b> Andrew Gissing, CEO (Natural Hazards Research Australia)
3:00pm	<b>Afternoon tea</b>
3:30pm	<b>Big Thinking – innovation in our sector</b> Dr Sue Keay, Partner and Director (Future Work Group) Dr Justin Fidock, Program Leader National Security, Defence Science Technology Group (Department of Defence) Prof Andy Koronios, CEO and Managing Director (SmartSat CRC) Brett Loughlin, Chief Officer (South Australian Country Fire Service)
5:30pm	<b>Welcome Drinks (5:30pm–7:00pm)</b>

Program subject to change

*Day 2 and 3 on  
the next page* →

For more information and  
details on how to register visit  
[naturalhazards.com.au/nhrf24](https://naturalhazards.com.au/nhrf24)

**OR SCAN THE QR CODE**

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### Day 2: Wednesday 15 May

Time	Stream 1	Stream 2	Stream 3
9.00am	<b>Risk informed decision making</b> <b>Bushfire risk at the rural–urban interface</b> Prof David Bowman (UTAS) Dr Stefania Onderi (UTAS) Anna Gjedrem (UTAS)	<b>Situational awareness</b> <b>Translation of observed and modelled extreme bushfire behaviours to improve fire prediction</b> Dr Mika Peace (BoM)	<b>Resilient communities and Country</b> <b>Community-led recovery: evidence, dimensions and supports for Community Recovery Communities</b> Dr Kate Brady (UniMelb) Dr Colin Gallagher (UniMelb)
	<b>Community risk assessment</b> Dr Nader Naderpajouh (USYD) Amir Pakizeh (USYD) Peyman Habibimoshfegh (USYD)	<b>What makes a good fire simulator?</b> Dr Hamish Clarke (Uni Melb) Caitlyn Simon (Uni Melb)	<b>Cultural land management research and governance in south-east Australia</b> A/Prof Tim Neale (Deakin) Olliver Costello (Jagun Alliance) Lachlan Beggs (Deakin)
	<b>Predictions in public: understanding the design, communication and dissemination of predictive maps to the public</b> TBC	<b>Sector partner engagement to enhance severe weather impact predictions</b> Liza Gelt (Collaborative Consulting) Rosie Tran (Collaborative Consulting) Michael Rumsewicz (Collaborative Consulting)	<b>Awareness, education and communication for compound natural hazards</b> Dr Gabi Mocatta (Deakin) Dr Erin Hawley (Deakin)
	<b>Operationalising Aboriginal Land and Sea Management</b> Shaun Hooper (DCCEEW) Kate Brown (DCCEEW)	<b>Healing country through Wolgalu/ Wiradjuri-led land management</b> Megan Considine (Ngumbaay) A/Prof Lisa Slater (UOW) Jarrah Bousfield (Brungle Tumut Local Aboriginal Land Council)	<b>Foundations in Indigenous disaster resilience</b> Bhiamie Williamson (Monash) Nell Reidy (NIDR)
	<b>Capturing uncertainty in bushfire spread prediction</b> Dr Michael Storey (UOW) A/Prof Owen Price (UOW)	<b>PhD</b> <b>Remote sensing of fuel to improve fire behaviour predictions</b> Simeon Telfer (RMIT)	
	<b>Why Fly? How do we know that aerial firefighting operations are effective and efficient?</b> A/Prof Owen Price (UOW)	<b>PhD</b> <b>Machine learning for humanitarian disaster relief efforts through employing rule-based verification on drone aerial imagery</b> Hafiz Suliman Munawar (UNSW)	
10:30am	<b>Morning tea</b>		
11:00am	<b>Risk informed decision making</b> <b>Utilisation panel + workshop</b>	<b>Situational awareness</b> <b>Utilisation panel + workshop</b>	<b>Resilient communities and Country</b> <b>Utilisation panel + workshop</b>
	12:30pm	<b>Lunch</b>	

Time	Stream 1	Stream 2	Stream 3
1:30pm	<p><b>Early Career Researchers</b></p> <p><b>Early Career Researchers</b> Early and Mid-Career Academic and Practitioner Network (Launch) Prof Deborah Bunker (NHRA) Dr Hamish Clarke (UniMelb)</p> <p><b>HDR and ECR Research Presentations with Q&amp;A Session</b></p> <p><b>Publishing in the Australian Journal of Emergency Management</b> Christine Belcher (Managing Editor AJEM) Margaret Moreton (AIDR)</p>	<p><b>Situational awareness</b></p> <p><b>Flash flood case studies to improve predictions and communication of uncertainty</b> Dr Carla Mooney (BoM)</p> <p><b>Long-range flood outlook for strategic preparedness</b> Dr Navid Ghajarnia (BoM) Dr Christopher Picket-Heaps (BoM)</p> <p><b>Developing an integrated predictive capability for extreme rainfall and inundation</b> Dr Carlos Velasco (BoM)</p> <p><b>Detecting fire plumes with mobile radar</b> Dr Mika Peace (BoM)</p> <p><b>Fire Case Studies</b> Dr Mika Peace (BoM) Dr Jeff Kepert (BoM) Sam Sauvage (BoM)</p>	<p><b>Resilient communities and Country</b></p> <p><b>Post Flood – Research utilisation workshop</b> A/Prof Melanie Taylor (MQ) Dr Darryl Stellmach (UTas) Dr Erica Kuligowski (RMIT) Dr Michael Carroll (QFES) Bhiamie Williamson (Monash)</p>
3:30pm	<b>Afternoon tea</b>		
4:00pm	<p><b>Keynote</b> Dr Sally Potter, Senior Social Scientist, GNS Science New Zealand</p>		
5:00pm	<b>Networking function (5:00pm – 7:30pm)</b>		

Program subject to change



## Day 3: Thursday 16 May

Time	Stream 1	Stream 2
9:00am	<b>Workforce</b>	<b>Infrastructure – Planning for a resilient built environment</b>
	<b>Enhanced decision-making in emergency management</b> Dr Peter Hayes (CQU) Dr Greg Penney (CSU)	<b>How best we innovate inform by the science</b>
	<b>PhD</b> <b>Smoke exposure profiles of bushfire fighters in the south-west ecoregion of Western Australia</b> Kiam Padamsey (ECU)	<b>Modelling impacts of natural hazards on interconnected infrastructure networks</b> Dr Matt Mason (UQ)
	<b>PhD</b> <b>Impact of bushfire smoke on the ocular surface</b> Suki Jaiswal (UNSW)	<b>Creating resilient and sustainable critical infrastructure using evidence informed policy</b> Cameron Atkinson (UTAS)  <b>Understanding the resilience of lifelines for regional and remote communities</b> Prof Lauren Rickards (Latrobe)  <b>Safety of Alternative and Renewable Energy Technologies Research Program</b> Jamie Vistines (FRNSW)
10:30am	<b>Morning tea</b>	
11:00am	<b>Workforce</b>	<b>Infrastructure – Planning for a resilient built environment</b>
	<b>Workforce (cont)</b>	<b>How best we invest in resilience and risk reduction</b>
	<b>Best practice for tracking and responding to potentially traumatic event exposure</b> Alexandra Howard (Phoenix Australia)	Steve Crowley (Optus) Bridie Fennessy – General Manager, Distribution Services (Yarra Valley Water) Rob Considine – Director, Sector Resilience & Emergency, (Department of Energy, Environment and Climate Action)
	<b>Reimagining emergency management volunteering: more than just words</b> Celeste Young (VU) Prof Roger Jones (VU)	Dr Adriana Keating (Monash)
12:30pm	<b>Lunch</b>	
1:30pm	<b>Future urban planning policy in a natural hazards context</b> Prof Barbara Norman, Emeritus Professor, University of Canberra, Chair of Urban Policy Forum advising Australian Government.	
	<b>Panel</b> Prof Barbara Norman Julia Waddington-Powell (SAFECOM) Brenton Grear (DEW)	
2:30pm	<b>Closing</b> Her Excellency the Honourable Frances Adamson, Governor of South Australia	
3:00pm	<b>End of Forum</b>	

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