

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	Plenary – Hickinbotham Hall
1:00pm	Welcome Iain MacKenzie, Chair, Natural Hazards Research Australia
	Welcome to Country Cliffy Wilson, Kuma Kaaru Cultural Services
	Opening South Australian dignitaries Brendan Moon, Coordinator-General, National Emergency Management Agency
	Overview Andrew Gissing, CEO, Natural Hazards Research Australia
3:00pm	Afternoon tea
3:30pm	Big Thinking – innovation in our sector 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	Welcome drinks (5:30pm–7:00pm)

Program subject to change

PROGRAM

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Day 2: Wednesday 15 May

Time	Stream 1 – Hickinbotham Hall	Stream 2 – The Gallery	Stream 3 – Exhibition Hall
9.00am	<p>Risk informed decision making</p> <p>Bushfire risk at the rural–urban interface Prof David Bowman, Dr Stefania Ondei & Dr Anna Gjedrem, University of Tasmania</p> <p>Community risk assessment A/Prof Nader Naderpajouh, Amir Pakizeh & Peyman Habibimoshfegh, University of Sydney</p> <p>Predictions in public: understanding the design, communication and dissemination of predictive maps to the public Dr Chloe Begg, Country Fire Authority Dr Erica Kuligowski, RMIT University</p> <p>Operationalising Aboriginal Land and Sea Management Shaun Hooper & Kate Brown, Department of Climate Change, Energy, the Environment and Water NSW</p> <p>Capturing uncertainty in bushfire spread prediction Dr Michael Storey & A/Prof Owen Price, University of Wollongong</p> <p>Why fly? How do we know that aerial firefighting operations are effective and efficient? A/Prof Owen Price, University of Wollongong</p>	<p>Situational awareness</p> <p>What makes a good fire simulator? Caitlin Symon, University of Melbourne</p> <p>Sector partner engagement to enhance severe weather impact predictions Liza Gelt, Rosie Tran & Dr Michael Rumsewicz, Collaborative Consulting</p> <p>Translation of observed and modelled extreme bushfire behaviours to improve fire prediction Dr Mika Peace, Bureau of Meteorology</p> <p>Healing country through Wolgalu/ Wiradjuri-led land management Megan Considine, Brungle-Tumut Local Aboriginal Land Council A/Prof Lisa Slater, University of Wollongong Jarrah Bousfield, Brungle-Tumut Local Aboriginal Land Council</p> <p>PhD – Remote sensing of fuel to improve fire behaviour predictions Simeon Telfer, RMIT University</p> <p>PhD – Machine learning for humanitarian disaster relief efforts through employing rule-based verification on drone aerial imagery Hafiz Suliman Munawar, University of New South Wales</p>	<p>Resilient communities and Country</p> <p>Community-led recovery: evidence, dimensions and supports for Community Recovery Communities Dr Kate Brady & Dr Colin Gallagher, University of Melbourne</p> <p>Cultural land management research and governance in south-east Australia A/Prof Tim Neale, Deakin University Oliver Costello, Jagun Alliance Lachlan Beggs, Deakin University</p> <p>Awareness, education and communication for compound natural hazards Dr Gabi Mocatta & Dr Erin Hawley, Deakin University</p> <p>Foundations in Indigenous disaster resilience Bhiamie Williamson & Nell Reidy, National Indigenous Disaster Resilience, Fire to Flourish</p> <p>PhD – Building community resilience to natural hazards through school education: a social and transformative model of practice Belinda Davies, Monash University</p>
10:30am	Morning tea		
11:00am	<p>Risk informed decision making</p> <p>Utilisation panel + workshop</p>	<p>Situational awareness</p> <p>Utilisation panel + workshop</p>	<p>Resilient communities and Country</p> <p>Utilisation panel + workshop</p>
12:30pm	Lunch		

Participation at NHRF24:

Participate in person or online using Slido. Scan the QR code in this program to join. No app is required!

If you run into any technical difficulties, please contact Vaia Smirneos:
0413 419 428, vaia.smirneos@naturalhazards.com.au

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Time	Stream 1 – Hickinbotham Hall	Stream 2 – The Gallery	Stream 3 – Exhibition Hall
1:30pm	<p>Early Career Researchers</p> <p>Launch of Early and Mid-Career Academic and Practitioner Network Prof Deborah Bunker, Natural Hazards Research Australia Dr Hamish Clarke, University of Melbourne</p> <p>PhD and early career researcher presentations with Q&A Bushfires, trauma and sleep: help me to sleep please – Fadia Isaac, Federation University Response, resilience and recovery of Tasmania's endangered Pencil Pine using a multi-archive palaeoenvironmental record – Sarah Cooley, University of Melbourne Irrigated green firebreaks – Jady Smith, University of the Sunshine Coast PhD poster presentations</p> <p>Publishing in the Australian Journal of Emergency Management Christine Belcher, Australian Journal of Emergency Management Dr Margaret Moreton, Australian Institute for Disaster Resilience</p>	<p>Situational awareness</p> <p>Flash flood case studies to improve predictions and communication of uncertainty Dr Carla Mooney, Bureau of Meteorology</p> <p>Long-range flood outlook for strategic preparedness Dr Navid Ghajarnia, Bureau of Meteorology</p> <p>Developing an integrated predictive capability for extreme rainfall and inundation Dr Carlos Velasco, Bureau of Meteorology</p> <p>Detecting fire plumes with mobile radar Dr Mika Peace, Bureau of Meteorology</p> <p>Fire case studies Dr Mika Peace, Dr Jeff Kepert & Sam Sauvage, Bureau of Meteorology</p>	<p>Resilient communities and Country</p> <p>Post-flood research utilisation workshop A/Prof Mel Taylor, Department of Climate Change, Energy, the Environment and Water NSW & Macquarie University Dr Darryl Stellmach, University of Tasmania Bhiamie Williamson, National Indigenous Disaster Resilience, Fire to Flourish Dr Erica Kuligowski, RMIT University</p> <p>Knowledge user perspectives Pathways to utilisation – breakout discussion groups</p>
3:30pm	Afternoon tea		
	Plenary – Hickinbotham Hall		
4:00pm	<p>Keynote – Personalised natural hazards warnings Dr Sally Potter, Senior Social Scientist, GNS Science New Zealand</p>		
5:00pm	Networking function (5:00pm - 7:30pm)		

Program subject to change



Day 3: Thursday 16 May

Time	Stream 1 – Hickinbotham Hall	Stream 2 – The Gallery
9:00am	Infrastructure – Planning for a resilient built environment	Workforce
	Evaluating the Resilient Homes Fund Prof Paula Jarzabkowski, University of Queensland	Best practice for tracking and responding to potentially traumatic event exposure Alexandra Howard, Phoenix Australia
	Modelling impacts of natural hazards on interconnected infrastructure networks Dr Matt Mason, University of Queensland	PhD – Impact of bushfire smoke on the ocular surface Suki Jaiswal, University of New South Wales
	Creating resilient and sustainable critical infrastructure using evidence informed policy Cameron Atkinson, University of Tasmania	PhD – Smoke exposure profiles of bushfire fighters in the south-west ecoregion of Western Australia Kiam Padamsey, Edith Cowan University
	Understanding the resilience of lifelines for regional and remote communities Prof Lauren Rickards, La Trobe University	Enhanced decision-making in emergency management Dr Peter Hayes, CQUniversity A/Prof Greg Penney, Charles Sturt University
	Safety of Alternative and Renewable Energy Technologies Research Program Jamie Vistnes, Fire and Rescue NSW	
	Panel – How do we better innovate and be informed by science?	
10:30am	Morning tea	
11:00am	Infrastructure – Planning for a resilient built environment	Workforce (continued)
	Panel – How do we better invest in resilience and risk reduction? Steve Crowley, Optus Bridie Fennessy, Yarra Valley Water Dr Rob Considine, Department of Energy, Environment and Climate Action, Victoria Stephen Martin, Powerlink	Utilisation of transformative scenarios in a climate-challenged world Liza Gelt & Rosie Tran, Collaborative Consulting Co Reimagining emergency management volunteering: more than just words Celeste Young & Prof Roger Jones, Victoria University
	Stream closing remarks Dr Adriana Keating, Fire to Flourish	Recap 2022 workshop and discussion on pathways to impact
12:30pm	Lunch	
Time	Plenary – Hickinbotham Hall	
1:30pm	Keynote – Future urban planning policy in a natural hazards context Prof Barbara Norman, Emeritus Professor, University of Canberra, Chair of Urban Policy Forum advising Australian Government.	
	Panel Prof Barbara Norman Julia Waddington-Powell, South Australian Fire and Emergency Services Commission Brenton Gear, Department for Environment and Water, South Australia	
2:30pm	Closing Her Excellency the Honourable Frances Adamson, Governor of South Australia	
3:00pm	End of Forum	

Program subject to change

We acknowledge the Traditional Custodians of the land on which the Natural Hazards Research Forum is being held, the Kurna people of the Adelaide Plains, and we pay our respects to their Elders past, present and emerging. We also acknowledge the Kurna peoples' continued contribution to the life and culture of the Adelaide Plains region, and recognise that these lands and waters have always been places of teaching, research and learning. In the spirit of reconciliation, we extend this acknowledgment and respect to all First Nations peoples, including any First Nations delegates.

Join the conversation **#NHRF24**

