

# NATURAL HAZARDS RESEARCH FORUM

BRISBANE, 12–14 OCTOBER 2022

*Click to watch  
each day's replay* ↘

## Day 1: Wednesday 12 October 2022

Timestamp	Topic
Boulevard Auditorium	
00:00:00	<b>Introduction and context setting</b> <b>Chair:</b> Andrew Gissing, CEO Natural Hazards Research Australia
00:02:43	<b>Welcome to Country</b>
00:12:22	<b>Welcome</b> Dr Katherine Woodthorpe AO, Chair Natural Hazards Research Australia
00:16:57	<b>Launch of Natural Hazards Research Australia</b> Senator the Hon Murray Watt, Minister for Emergency Management (video)
00:20:12	Hon Mark Ryan MP, Qld Minister for Fire and Emergency Services
00:27:55	<b>An introduction to Natural Hazards Research Australia</b> Andrew Gissing, CEO Natural Hazards Research Australia
00:53:34	<b>Keynote: Insights for research in disaster risk reduction and resilience</b> Prof Mary O'Kane AC
01:35:35	<b>Keynote: Global research priorities</b> Dr Robert Glasser, Head of Climate and Security Policy Centre, Australian Strategic Policy Institute (live videolink)
02:13:40	<b>Driving Change: evidence informed policy and strategy</b> <b>Chair:</b> Sandy Whight, AFAC
02:15:35	<b>Fire science</b> Dr Simon Heemstra, Director of National Projects, AFAC
02:24:20	<b>Warnings and communications</b> Dr Josh Whittaker, NSW Rural Fire Service
02:36:30	Prof Vivienne Tippet, Queensland University of Technology
02:48:04	<b>Resilience</b> A/Prof Melissa Parsons, University of New England
03:02:42	<b>Partnering with business: Case study</b> Dor Son Tan, Energy Networks Australia
03:07:15	Stephen Martin, Powerlink Queensland
03:17:45	<b>Panel discussion</b>
04:11:43	<b>Reconciliation Action Plan</b> – launch and refreshments Learn about the Centre's commitments to reconciliation with the formal launch of its first Reconciliation Action Plan, featuring a smoking ceremony, First Nations speakers and a reconciliation activity.

↖ *Use the timestamp to  
navigate to a session*

# NATURAL HAZARDS RESEARCH FORUM

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## Day 2, Stream 1: Thursday 13 October 2022

### International Day for Disaster Risk Reduction

Timestamp	Topic
Boulevard Auditorium	
00:00:00	<b>Special message for International Day for Disaster Risk Reduction,</b> Dr Animesh Kumar, Head of United Nations office for Disaster Risk Reduction, Bonn, Germany.
00:09:42	<b>Sustainable, safe and healthy natural landscapes</b> Effective risk reduction and resilience-building across diverse natural landscapes can be measured in values of sustainability, safety and health of those landscapes. Healthy landscapes are inherently more resilient and are intricately entwined with healthy people and communities. This session brings together contributions from First Nations people, land management agencies and other relevant groups. We will explore how we can combine traditional and modern knowledge to care for Country and reduce the risks posed by natural hazards. <b>Chair:</b> Dr Kat Haynes, Natural Hazards Research Australia
00:12:23	<b>Keynote:</b> Dr Turlough Guerin, CEO Landcare NSW
00:27:20	Prof David Bowman, University of Tasmania
00:36:34	Vanessa Cavanagh, University of Wollongong
00:46:54	Oliver Costello, Jagun Alliance
01:02:07	Dr Samantha Lloyd, Queensland Fire and Biodiversity Consortium; Healthy Land and Water
01:16:19	Dr Andrew Edwards, Charles Darwin University
01:30:40	<b>Panel discussion</b>
Stream 1 – Boulevard Auditorium	
01:47:31	<b>Resilient and sustainable built environments</b> In this time of rapid climate change and intensifying natural hazards, infrastructure systems are under increasing pressure to deliver resilient and reliable services. Reliance on critical infrastructure and essential services is a key global vulnerability. This session will examine how a focus on lifelines and interactions within complex human-built environment systems can deepen our understanding of resilience and support the goals of the Australian Disaster Risk Reduction Framework. <b>Chair:</b> Dr Blythe McLennan, Natural Hazards Research Australia
01:49:42	Dr Adriana Keating, Monash University
02:03:54	Cameron Atkinson, Natural Hazards Research Australia & University of Tasmania
02:12:39	Prof Alan March, University of Melbourne
02:29:55	<b>Panel discussion</b> With Jeremy Mansfield, Lend Lease and Green Cross Australia
02:55:57	<b>Learning from disasters</b> Understanding the underlying social, economic and political circumstances that underpin why a natural hazard becomes a disaster is fundamental to reducing future risks and transforming how we live and adapt to hazards. This session will explore lessons learnt in both recent and historic disasters. We will highlight why implementing change is challenging and give examples of how it can be done. <b>Chair:</b> Dr Kat Haynes, Natural Hazards Research Australia
02:58:00	Bhiamie Williamson, Fire to Flourish, Monash University
03:22:19	Dr Matt Mason, University of Queensland
03:40:35	A/Prof Mel Taylor and 2022 floods research team, Macquarie University
04:02:36	<b>Panel discussion</b>

04:13:27	<b>Workforces and communities of the future</b> Australia's emergency management sits within an environment that is becoming ever more complex, dynamic and uncertain, while the nature of how we work is also changing – influenced by changes in technology and lifestyle, and by increasing levels of interconnectivity and cross-boundary collaboration. In this dynamic context, planning for the future sustainability, effectiveness and wellbeing of the emergency management workforce becomes especially important. This session will bring together a panel of diverse perspectives to discuss what the emergency management workforce should look like in 10-20 years' time (and why), and the role of research in supporting the sector to build and enable a 'future ready' workforce. <b>Chair:</b> Dr Blythe McLennan, Natural Hazards Research Australia
04:18:33	Celeste Young, Victoria University & Department of Fire and Emergency Services WA Elly Bird, Resilient Lismore Mara Basanovic, CEO Volunteering Queensland Alen Slijepcevic, Deputy Chief Officer, Country Fire Authority Andrew Short, Assistant Commissioner SES, Queensland Fire and Emergency Services Ricky Archer, CEO North Australian Indigenous Land and Sea Management Alliance Ltd
05:13:22	<b>Disaster Challenge Final</b> – presentations and refreshments <b>MC:</b> Iain Mackenzie The Disaster Challenge Final brings the finalists together to pitch their brilliant ideas.
05:27:23	Mobilising Local Culturally & Linguistically Diverse Stakeholders & Gatekeepers
05:42:18	Tourist & Tourism Worker Education Using Wi-fi Portals
05:57:45	Beacons of Hope
06:14:32	<b>Keynote:</b> Dr Margaret Cook, Griffith University and University of the Sunshine Coast
06:33:08	Kate Retzki, Get Ready Queensland and Queensland Reconstruction Authority
06:40:03	<b>Disaster Challenge winners announced</b>

## Day 2, Stream 2: Thursday 13 October 2022

Timestamp	Topic
Stream 2 – Boulevard B1	
	<b>Situational awareness</b> With the rise of social media, online activity and the increase in demands from royal commissions, reviews and inquiries, the emergency management sector is increasingly under pressure to share and make sense of data in real-time. In this session, we help the emergency management sector approach this issue by bringing together a selection of multidisciplinary researchers to explore innovations in situational awareness technologies and methods. <b>Chair:</b> Lorian Bethune, Natural Hazards Research Australia <i>Note that Lorian Bethune's introduction to this session and the start of Ken Dale's presentation were not recorded due to technical difficulties. We apologise for any inconvenience caused.</i>
00:00:00	Ken Dale, Geoscience Australia
00:12:51	Dr Matt Mason, University of Queensland
00:30:57	Dr Chloe Begg, Victoria Country Fire Authority
01:02:54	<b>Operational response and innovation</b> Innovation is the key to helping the emergency management sector better respond to emergencies. In this interactive session, we will engage with researchers from diverse fields relating to emergency management operations. We aim to understand how we can use innovation from a range of disciplines to improve the safety and effectiveness of operational response on the ground. <b>Chair:</b> Lorian Bethune, Natural Hazards Research Australia
01:05:48	Dr Peter Hayes, Central Queensland University
01:24:48	Leigh Kelson, Fire Tech Connect
01:42:32	Dr Mahesh Prakash, Data 61
01:58:36	<b>Panel discussion</b>

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## Day 3: Friday 14 October 2022

Timestamp	Topic
Boulevard Auditorium	
00:00:00	<b>Keynote: Black Summer/national disaster arrangements</b> Dominique Hogan-Doran, Senior Counsel
00:22:36	<b>Resilient communities</b> <b>Chair:</b> Dr Margaret Moreton, Executive Director AIDR
00:23:54	<b>Community-led recovery</b> <b>Keynote:</b> Brendan Moon, Coordinator-General for Emergency Management, National Emergency Management Agency
00:40:15	<b>Panel discussion</b> Brendan Moon, Coordinator-General for Emergency Management, National Emergency Management Agency Prof Lisa Gibbs, Centre for Disaster Management and Public Safety, University of Melbourne A/Prof Briony Rogers, Fire to Flourish, Monash University A/Prof Michelle Villeneuve, Centre for Disability Research and Policy, University of Sydney Kylie Macfarlane, Chief Operating Officer, Insurance Council of Australia Elly Bird, Resilient Lismore
01:32:54	<b>Managing disaster risk, building disaster resilience</b> <b>Chair:</b> Prof Deb Bunker, Chief Science Officer, Natural Hazards Research Australia
01:34:03	<b>Climate scenarios, plausible futures</b> <b>Keynote:</b> Prof Lauren Rickards, Climate Change Transformations, RMIT University
02:03:32	<b>Keynote:</b> Zoë Robinson, NSW Advocate for Children and Young People
02:20:38	<b>Panel discussion</b> <b>Chair:</b> Iain Mackenzie Prof Lauren Rickards, Climate Change Transformations, RMIT University Zoë Robinson, NSW Advocate for Children and Young People Mike Wassing, Deputy Commissioner, Queensland Fire and Emergency Services Ricky Archer, CEO North Australian Indigenous Land and Sea Management Alliance Ltd
02:54:29	<b>Wrap up and close</b> Prof Deb Bunker, Chief Science Officer, Natural Hazards Research Australia