



RESEARCH FORUM

MELBOURNE, 1-3 MAY 2023

PROGRAM

Storey Hall, RMIT University, Melbourne City Campus



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

Participation at NHRF23:

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



We acknowledge the Traditional Custodians of the land on which the Natural Hazards Research Forum is being held, the Wurundjeri people of the Kulin Nations, and we pay our respects to their Elders past, present and emerging. We also acknowledge the Wurundjeri peoples' continued contribution to the life and culture of the Naarm-Melbourne 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 here today.

Join the conversation **#NHRF23**







NATURAL HAZARDS RESEARCH FORUM



STOREY HALL, RMIT UNIVERSITY, MELBOURNE CITY CAMPUS, 1-3 MAY 2023

Research with Impact - Provoke, Inspire, Challenge, Be Involved

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

Day 1: Monday 1 May



Time	Торіс	
	Private session: Student and Early Career Researcher professional development	
10:00am	Welcome and overview of Natural Hazards Research Australia Prof Deborah Bunker, Natural Hazards Research Australia	
10:15am	Presentation: How to give your research impact Dr Marco de Sisto, RMIT University	
11:15am	Research speed dating	
12:15pm	Lunch and poster session	
1:15pm	Presentation: How to communicate your research for impact Bethany Patch and Radhiya Fanham, Natural Hazards Research Australia	
1:45pm	Workshop: Climate science for natural hazards researchers John Clarke, CSIRO	

Time	Торіс
	Natural Hazards Research Forum: public sessions begin
2:00pm	Registration desk opens
3:00pm	Introduction and welcome Andrew Gissing, Natural Hazards Research Australia
3:05pm	Presentations and Q&A: Urban heat impacts Tiffany Crawford, City of Melbourne Kelly Gee and Judith Bruinsma, Western Sydney Regional Organisation of Councils
4:00pm	Workshop: Be ahead of ready: building our future on today's research Martijn Gough, Aither
5:30pm	Welcome drinks

Program subject to change



Supported by:



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Day 2: Tuesday 2 May



Time	Торіс		
8:00am	Registration desk opens		
8:30am	Welcome to Country and smoking ceremony		
8:45am	Welcome Prof Calum Drummond AO, Deputy Vice-Chancellor Research and Innovation, RMIT University Senator the Hon Murray Watt, Minister for Emergency Management (video)		
9:00am	Keynote Brendan Moon AM, Coordinator-General for Emergency Management, National Emergency Management Agency		
9:30am	First Nations presentation: Cultural land management research and governance in south-east Australia Dr Timothy Neale, Deakin University Dr Andrea Rawluk, University of Melbourne Oliver Costello, Jagun Alliance		
	5-minute project presentations		
9:45am	Severe weather impact prediction Liza Gelt, Collaborative Consulting		
	Flash flooding case studies to improve predictions and the communication of uncertainty Dr Carla Mooney, Bureau of Meteorology		
	Developing an integrated predictive capability for extreme rainfall and inundation Paul Fox-Hughes, Bureau of Meteorology		
	Long-range flood outlook for strategic preparedness Dr Wendy Sharples, Bureau of Meteorology		
	This session will include short PhD presentations		
10:15am	First Nations presentation: Healing Country through Wolgalu/Wiradjuri-led land management Megan Considine, Brungle-Tumut Local Aboriginal Land Council A/Prof Lisa Slater, University of Wollongong		
10:30am	Morning tea		







11:00am	Storing and sharing qualitative social data Dr Deanne Bird, Monash University
	Understanding the resilience of lifelines for regional and remote communities Prof Lauren Rickards, La Trobe University
	Natural hazards and resilience in complex urban systems Dr Blythe McLennan, Natural Hazards Research Australia
	Community risk assessment Dr Nader Naderpajouh, University of Sydney
	Modelling the impacts of sequential cascading natural hazards Dr Matthew Mason, University of Queensland
	Fire studies at the Bureau of Meteorology Dr Jeff Kepert, Bureau of Meteorology
	Identifying and defining landscape dryness thresholds for fires Dr Thomas Duff, Country Fire Authority (Vic)
	Predictions in public: understanding the design, communication and dissemination of predictive maps to the public Dr Chloe Begg, Country Fire Authority (Vic)
	Bushfire risk at the rural–urban interface Prof David Bowman, University of Tasmania
	Integrated solutions for bushfire-adaptive homes Dr Raphaele Blanchi, CSIRO
	This session will include short PhD presentations
12:30pm	Lunch and poster session
	5-minute project presentations
1:30pm	Enhancing decision making in emergency management A/Prof Chris Bearman, CQUniversity
	Translating extreme bushfire behaviours to improve bushfire prediction Chris Morton, Department of Energy, Environment and Climate Action (Vic) Alen Slijepcevic, Country Fire Authority (Vic)
	What makes a good fire simulator? Dr Hamish Clarke, University of Melbourne
	Reimagining emergency management volunteering: more than words Dr Blythe McLennan, Natural Hazards Research Australia
	Awareness, education and communications for compound natural hazard events Dr Gabi Mocatta, Deakin University
	Identifying water sources for aerial firefighting Dr Caitlin Adams, FrontierSI
	Why fly: how do we know that aerial firefighting operations are effective and efficient? Sandra Whight, National Aerial Firefighting Centre
2:15pm	First Nations presentation: Cultural land management Shaun Hooper and Dr Mal Ridges, NSW Department of Planning and Environment
2:30pm	Afternoon tea
3:00pm	Presentation: 2023 Disaster Challenge Dr Blythe McLennan, Natural Hazards Research Australia
3:15pm	Yarn with First Nations research teams: challenge and opportunities for research utilisation Jack Pascoe, Conservation Ecology Centre and University of Melbourne Shaun Hooper and Dr Mal Ridges, NSW Department of Planning and Environment Megan Considine, Brungle-Tumut Local Aboriginal Land Council A/Prof Lisa Slater, University of Wollongong Dr Timothy Neale, Deakin University Oliver Costello, Jagun Alliance
4:30pm	Break
5:00pm- 7:00pm	Networking function: drinks and finger food



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Day 3: Wednesday 3 May

Time	Торіс				
8:00am	Registration desk opens				
8:30am	Welcome Andrew Gissing, Natural Hazards Research Australia				
8:40am	Findings launch: Community experiences of the Jan-July 2022 floods in NSW and Qld Key agency representatives A/Prof Mel Taylor, Macquarie University				
9:15am	Research utilisation: Rigour, relevance and relationships – child-centred bushfire education for 21st century schools Dr Briony Towers, Leadrrr Neil Munro, Country Fire Authority (Vic)				
	Project workshops				
	Stream 1: Risk mitigation – bushfire and prediction	Stream 2: Next generation capability – decision making and data	Stream 3: Risk mitigation – flood and extreme weather	Stream 4: Land-use planning and urban design and resilient recovery	
9:40am	Workshop: Predictions in public: understanding the design, communication and dissemination of predictive maps to the public Facilitators: Dr Chloe Begg, Country Fire Authority (Vic); Angela Gardner, Emergency Management Victoria; Dr Timothy Neale, Deakin University; Dr Erica Kuligowski, Dr Amy Griffith, RMIT University; Dr Graham Dwyer, Swinburne University	Workshop: Enhanced decision making and emergency management Facilitators: A/Prof Chris Bearman, Dr Peter Hayes, CQUniversity	Workshop: Community experiences of Qld and NSW floods: exploring the research findings for policy and practice Facilitators: A/Prof Mel Taylor, Macquarie University; Michael Carroll, Queensland Fire and Emergency Services; Heather Stuart, NSW State Emergency Service	Workshop (double session): Understanding the resilience of lifelines for regional and remote communities Facilitators: Prof Lauren Rickards, La Trobe University; Dr Paul Ryan, Australian Resilience Centre; Dr Adriana Keating, Dr Mayeda Rashid, Monash University	
10:20am	Transition				
10:25am	Workshop: What makes a good fire simulator? Facilitators: Dr Hamish Clarke, University of Melbourne; Dr Timothy Neale, Deakin University; Dr Thomas Duff, Country Fire Authority (Vic); Dr Meaghan Jenkins, NSW Rural Fire Service	Workshop: Community risk assessment Facilitators: Dr Nader Naderpajouh, Dr Aaron Opdyke, Ali Zolghadr, University of Sydney; Sara Morgan, NSW State Emergency Service	Joint workshop: Flash flooding case studies to improve predictions and the communication of uncertainty Developing an integrated predictive capability for extreme rainfall and inundation Facilitators: Dr Carla Mooney, Paul Fox-Hughes, Bureau of Meteorology	-	



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11:05am	Morning tea				
11:30am	Workshop: Bushfire risk at the rural—urban interface Facilitators: Prof David Bowman, Dr Grant Williamson, Dr Stefania Ondei, Dr Sharon Campbell, Amila Wickramasinghe, University of Tasmania; John Gilbert, Country Fire Authority (Vic); Melissa O'Halloran, NSW Rural Fire Service; Jeremy Little, Department of Energy, Environment and Climate Action (Vic)	Joint workshop: Bushfire information database Research data management Facilitators: Prof Deborah Bunker, Natural Hazards Research Australia; Dr Nader Naderpajouh, University of Sydney	Workshop: Severe weather impact prediction Facilitators: Dr Mike Rumsewicz; Liza Gelt, Rosie Tran, Collaborative Consulting; Dr Harald Richter, Bureau of Meteorology; Craig Arthur, Geoscience Australia	Workshop: Awareness, education and communication for compound natural hazards Facilitator: Dr Gabi Mocatta, Prof Kristy Hess, Dr Erin Hawley, Deakin University	
12:10pm	Transition				
12:15pm	Workshop: Integrated solutions for bushfire-adaptive homes Facilitators: Dr Raphaele Blanchi, Laura Kostanski, CSIRO; Dr Mittul Vahanvati, RMIT University; Mark Holland, Dr Chloe Begg, John Gilbert, Country Fire Authority (Vic); Peter Kamstra, University of Melbourne	Workshop: Storing and sharing qualitative social data Facilitators: Dr Deanne Bird, Monash University; Lyndsey Wright, Don Sharples, Altometer Business Intelligence	Workshop: Modelling the impacts of sequential cascading natural hazards Facilitators: Dr Matthew Mason, Dr David Lange, University of Queensland	Workshop: Community-led recovery: evidence, dimensions, and supports for Community Recovery Committees Facilitators: Dr Kate Brady, Dr Colin Gallagher, Hannah Morrice, University of Melbourne	
12:55pm	Lunch				
	Public event				
1:45pm	Keynote: Social infrastructure's critical role in mitigating shocks Prof Daniel Aldrich, Northeastern University, United States				
2:30pm	Panel: Disaster resilience and leadership: ensuring that research has impact Prof Daniel Aldrich, Northeastern University, United States Christine Ferguson, Department of Energy, Environment and Climate Action (Vic) Hannah Wandel, National Emergency Management Agency				
	Closing session				
3:00pm	Wrap-up Iain MacKenzie, Natural Hazards Research Australia Prof Deborah Bunker, Natural Hazards Research Australia				
3:30pm	Forum closes				
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Notes	

Thank you for joining the conversation.