



DELEGATE HANDBOOK

  #ADRC22

# Australian Disaster Resilience Conference 2022

Running in partnership with AFAC22 powered by INTERSCHUTZ

**RESILIENCE IN A RISKIER WORLD: ADAPTING  
AND TRANSFORMING FOR THE FUTURE**

Adelaide Convention Centre | 24 - 25 August 2022



*Ngadlu tampinhi, Kurna Miyurna yaiya yarta-mathanya Wama  
Tarntanyaku. Ngadlu tampinhi purkarna pukinangku, yalaka, tarrkaritya.*

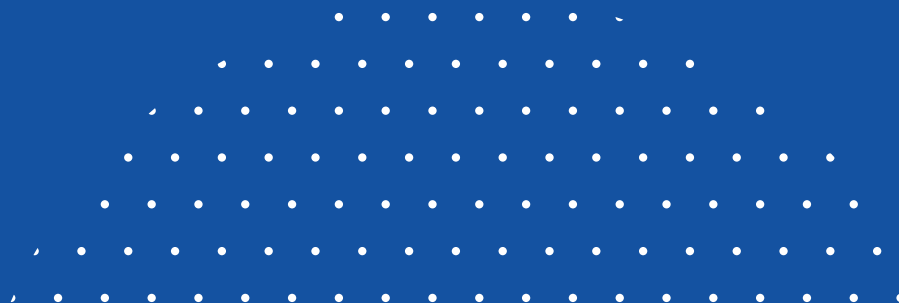
*Parnaku yailtya, parnaku tapa purruna, parnaku yarta ngadlu tampinhi.  
Yalaka Kurna Miyurna parnaku yailtya, tapa purruna, yarta kuma puru  
martinhi, puru warri-apinhi, puru tangka martulayinhi.*

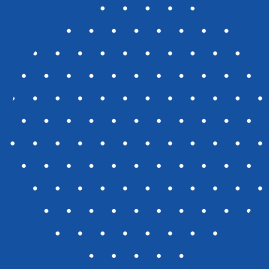
*Source: Kurna Warra Karrpanthi*

—

*The Australian Disaster Resilience Conference acknowledges the Kurna  
people are the Traditional Custodians of the Adelaide Plains and pays respect  
to Elders past, present and future.*

*We recognise and respect their cultural heritage, beliefs and relationship  
with the land. We acknowledge that they are of continuing importance to the  
Kurna people living today.*





# Contents

Foreword .....	6
About the conference .....	7
About AIDR.....	9
AFAC22 Trade Exhibition .....	10
Conference program .....	12
Meet the keynote speakers .....	14
Conference Abstracts – Day One .....	17
Conference Abstracts – Day Two .....	34
Posters and voting .....	45
Venue map .....	50
General information .....	51



# NAB Ready Together

We help local communities prepare for and recover from natural disasters.

With many Australians facing more natural disasters, there is a growing need for ongoing support to help communities rebuild and prepare for the challenges ahead. NAB is here to support Australians before, during and after natural disasters.

## Supporting emergency services volunteers

We're partnering with Emergency Services organisations to support them in helping communities during their time of need.

Our partnership with Queensland Rural Fire Service (RFS) supports the wellbeing and resilience of the RFS volunteers who are in the frontline of disasters.

With our Girls on Fire partnership, we're supporting the expansion of firefighting and resilience programs for young women in impacted or high-risk communities.

Through skilled volunteering our NAB colleagues have solved challenging problems identified by our emergency services partners, such as the volunteer onboarding process.

NAB provides employees who are emergency service volunteers as much paid crisis leave as they require during emergencies.

## NAB Foundation grants

Through our community and environmental resilience grants program, we're helping people and places better prepare for disasters and assist in their long-term recovery.

A total of \$1.2 million is awarded every year to communities across Australia through the NAB Foundation Community Grant program, for projects that help communities prepare and recover from natural disasters and climate change.

We are also providing \$10 million over 10 years for practical projects that build environmental resilience to natural disasters and climate change.

## Natural disaster and crisis support

We provide support for customers and communities impacted by natural disasters and crises, to help them get back on their feet. We have distributed almost \$4.8 million in emergency grants and donations to customers and communities impacted by the devastating floods across New South Wales and Queensland and the emergency services organisations supporting the response.

**Whatever comes, we're ready together.**

**For more information visit: [nab.com.au/ready](https://nab.com.au/ready)**

more  
than  
money



nab



## Girls on Fire

**Girls on Fire**, is a not-for-profit organisation that provides experiential learning programs based on firefighting operations for teenage girls and young women.

The firefighting and resilience programs are delivered in a practical outdoor learning setting by female firefighters who are employed or volunteer with emergency services agencies.

Girls on Fire was awarded a \$10,000 NAB Community Grant in 2021, followed by a \$20,000 Impact Grant (voted on by NAB colleagues) which allowed Founder, Bronnie Mackintosh to take the program to new places and new faces.

Additional partnership support from NAB, including skilled volunteering has given Girls on Fire confidence for the future to make an impact on a much bigger, national scale.

*"It's incredible and with NAB's support I'm going to be able to really take Girls on Fire into new places - it just builds scope and momentum,"*

**Bronnie Mackintosh, Founder**

Through the NAB Foundation Community Grants, NAB is working with organisations like Girls on Fire to help our communities be ready together.

**Learn more about the program and find out how to apply for the next round at [www.nab.com/nabfoundation](http://www.nab.com/nabfoundation)**

# Foreword

I am pleased to welcome you to the fifth Australian Disaster Resilience Conference.

Australia's disaster risk environment is complex and the last couple of years, from Black Summer to Cyclone Seroja to the compounding flooding events, have challenged us all. The gaps in our previous, reactive approach to disaster risk management have been exposed. We need a more focussed, proactive approach to dealing with the risks posed by natural hazards.

Australia is facing longer and more intense disaster seasons due to climate change, so it is important that we share our knowledge and work together to reduce risk to communities, environments and systems. The Australian Disaster Resilience Conference gives us an opportunity to do so.

The challenges for Australia are great, but our shared ability to find new solutions through technology and research continues to grow. While there is a lot more that needs to be done, I am committed to working with you to ensure Australia is better prepared, reduces its disaster risks, and is more robust. Collective efforts during the

pandemic response showed us what is possible when we work together at a national and global scale.

I commend the Australian Institute for Disaster Resilience in hosting this year's Australian Disaster Resilience Conference and putting together a compelling program of speakers and panels centring on the theme – *Resilience in a riskier world – adapting and transforming for the future*. The conference will look back and look forward to explore the ways in which we can build disaster resilience in an increasingly risky world, with a focus on adapting and transforming for the future.

In the spirit of collaboration, I encourage you all to be bold to discuss openly and creatively how we can build a more resilient Australia.



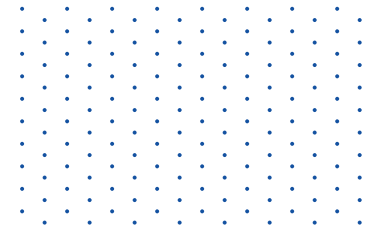
**Senator the Hon. Murray Watt**

Minister for Agriculture, Fisheries and Forestry and Minister for Emergency Management

## Special thanks to the Australian Disaster Resilience Conference program committee

IAG, Australian Red Cross, University of New England, South Australia Country Fire Service (CFS), National Recovery and Resilience Agency (NRRRA), Local Government Association of South Australia (LGA SA), SAFECOM, Torrens Institute, AFAC and AIDR





# About the conference

The Australian Disaster Resilience Conference welcomes you back in 2022 with the latest ideas and innovations in disaster risk reduction and resilience.

The Australian Disaster Resilience Conference is the nation’s premier event focused on contemporary disaster resilience practice and research. The conference brings together a diverse and passionate crowd from a range of sectors to share knowledge and build connections for a disaster resilient Australia.

Following on from the successful online conferences that were hosted over the last two years, we now embrace the long-awaited opportunity to break out of the virtual environment and connect, learn and listen together during this in-person conference experience.

The conference will once again offer two streams of presentations delivered by an impressive line-up of keynote speakers, presenters and panels. Beyond the conference program delegates can explore social functions, the AIDR Knowledge Centre and the impressive poster display, and the AFAC22 powered by INTERSCHUTZ Trade Exhibition.

The Australian Disaster Resilience Conference again runs in partnership with AFAC22 powered by INTERSCHUTZ, Australasia’s largest and most comprehensive emergency management conference and exhibition. This partnership facilitates whole-of-sector engagement across emergency management and disaster resilience, bringing delegates together to share inspiring keynote presentations and this year’s special closing to explore the co-benefits of mainstreaming disaster risk reduction.

The Australian Disaster Resilience Conference is brought to you by the Australian Institute for Disaster Resilience.

**The 2022 Australian Disaster Resilience Conference is supported by Industry Partner Sponsor, NAB.**



## Ask your questions to our speakers using Slido

This conference will be using an audience interaction platform called Slido. Slido allows you to submit your questions as well as upvote the questions of other participants. Questions with the highest number of votes will be preferred by our conference moderators.

1. Go to [slido.com](https://www.slido.com)
2. Enter #ADRC22 or scan the QR code, which will be displayed on the slideshow of each presentation.
3. Once you are in the presentation Q&A page you can ask your questions to our speakers.



Scan to start using Slido

## About the AFAC Conference App

1. Scan the QR code to download the AFAC Conference App
2. Enter the Event Code: AFAC22
3. Use your login details to sign in



Scan to download the Conference App

If you experience issues with the app, please visit the registration desk.

## Networking Breakfast Sponsors





## **Fire to Flourish is a five year program placing community at the heart of disaster recovery and resilience.**

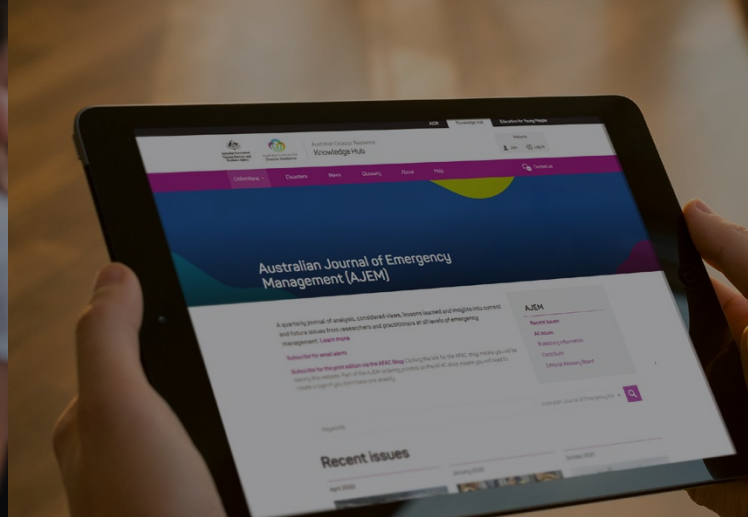
The lived experience of communities that have been through disaster, including First Nations communities, is key to effective disaster resilience.

Our work will strengthen community capability, supporting communities to lead their own recovery, reduce future disaster risks, and strengthen their long-term resilience and wellbeing.

Through experimentation and shared learning, our program will generate new knowledge and practical tools to support community-led resilience in practice.

**To learn more or get involved visit [firetoflourish.monash](https://firetoflourish.monash)**





# About AIDR

The Australian Institute for Disaster Resilience (AIDR) is the National Institute for disaster risk reduction and resilience. We collaborate across sectors to strengthen the resilience of Australian communities to disasters.

AIDR creates, grows, and supports a range of networks; provides opportunities for learning, development, and innovation; shares knowledge and resources to enable informed decision making and action; and facilitates thought leadership through national conversations.

AIDR contributes to a more disaster resilient Australia through four key influencing strategies that encapsulate AIDR's work:



Actively supporting, growing and sustaining a range of networks across sectors and jurisdictions.



Enabling those with a role in disaster risk reduction and resilience to come together to learn, develop and innovate.

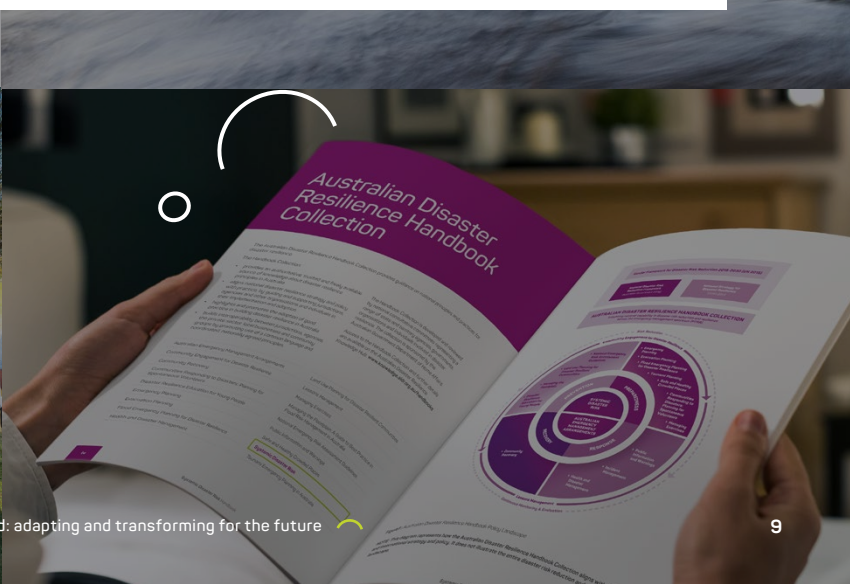
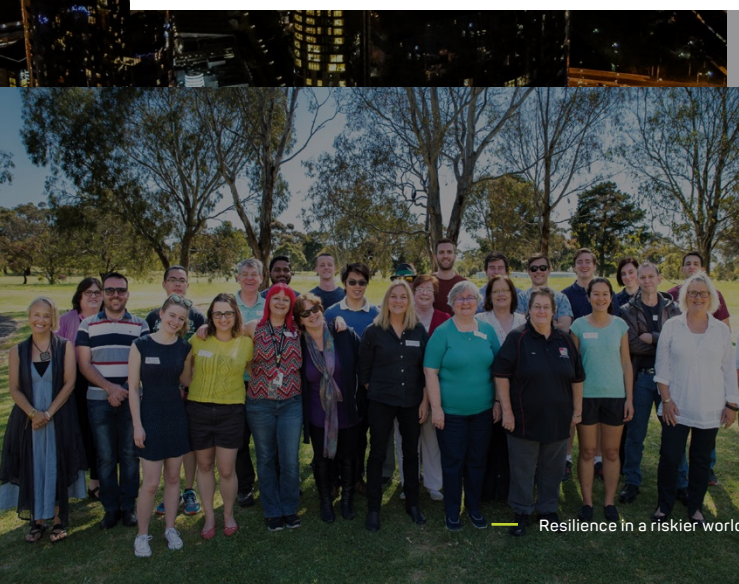


Collecting, developing, curating and sharing knowledge to educate and promote good practice in disaster risk reduction and resilience.



Providing a central focus point for national thought leadership on disaster risk reduction and resilience.

AIDR is supported by its partners: the Australian Government National Recovery and Resilience Agency, AFAC and the Australian Red Cross.





# AFAC22 Trade Exhibition

powered by INTERSCHUTZ

Australian Disaster Resilience Conference delegates will have full access to the AFAC22 powered by INTERSCHUTZ Trade Exhibition.

The AFAC22 powered by INTERSCHUTZ Trade Exhibition includes:



**The Expo Stage:** featuring insightful presentations from industry leaders and experts.



**The AIDR Knowledge Centre:** giving delegates the opportunity to discover the latest in research and best practice, as well as the chance to meet speakers from the conference and to vote in the People's Choice Poster Award.



**The Demonstration Zone:** showcasing live displays of new emergency management technologies and best practice examples of emergency management situations.

The exhibition features the industry's most impressive range of exhibitors covering all facets of emergency management equipment, technology and services, including:

- Vehicles and body specialists
- Fire extinguishing technology and agents
- Equipment for technical support and disaster relief
- Rescue, emergency, first aid and pre-hospital solutions
- Personal protective equipment
- Measuring and detection apparatus
- Infield redeployable infrastructure solutions
- Data, mapping, geospatial and detection solutions
- Safety training and equipment
- Training, simulation platforms and IT systems
- Extraction systems for fire stations and workshops
- Structural engineering, technical fire and building protection
- Aerial solutions
- Communication equipment and platforms
- Associations, organisations and service companies
- Satellite technologies

**1** Refer to the AFAC22 Conference App for more information on the Expo Stage program and exhibitors.

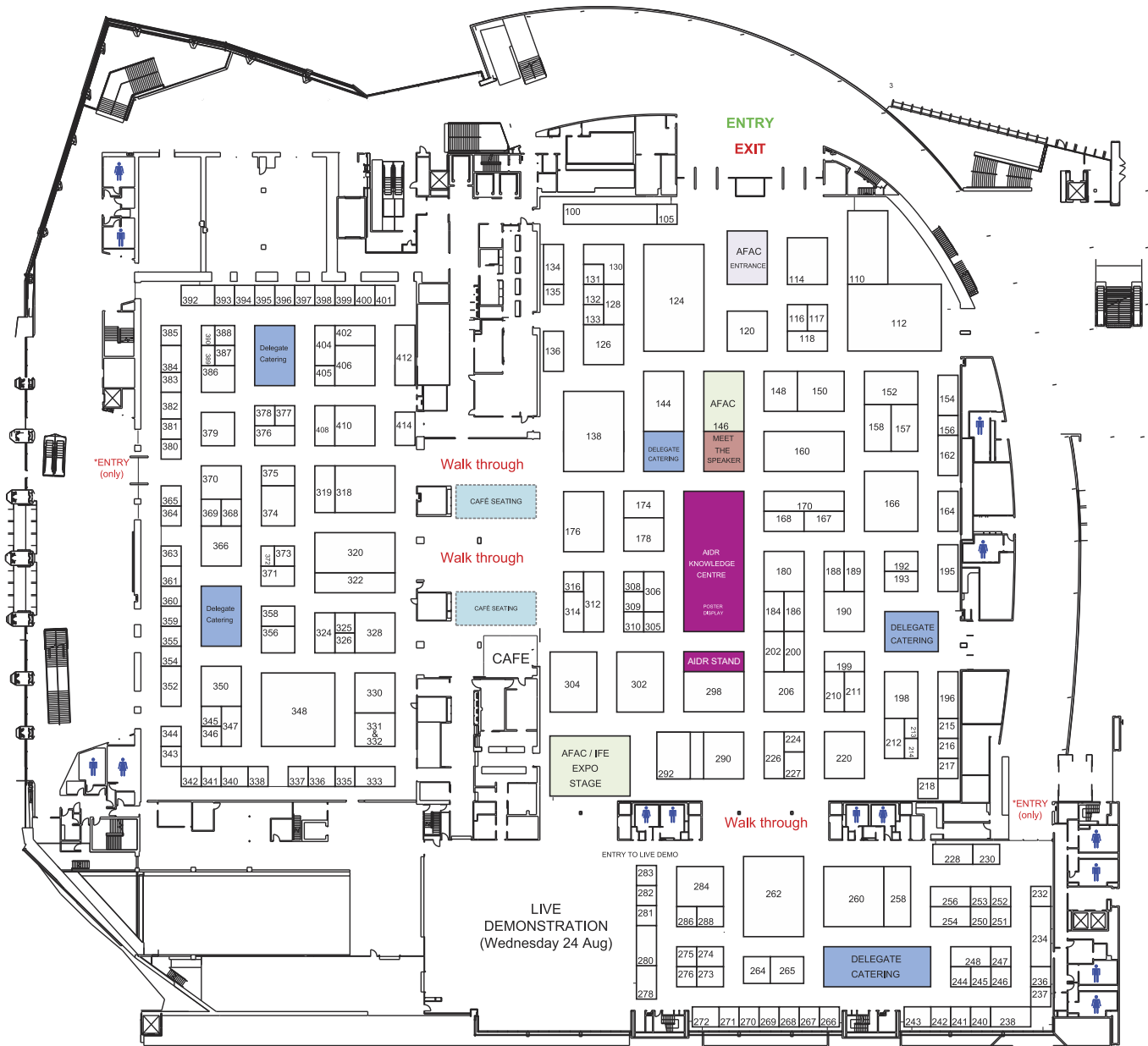
## Exhibition opening times

Tuesday 23 August | 1:00pm - 8:00pm

Wednesday 24 August | 9:00am - 5:00pm

Thursday 25 August | 9:30am - 3:30pm

# AFAC22 Trade Exhibition map



\*Map correct at time of printing

**KEY:**

- AIDR Stand and Knowledge Centre
- Full exhibitor list available in the AFAC22 Conference App

# Day One

TIME	STREAM 1, Riverbank 6 & 7	STREAM 2, Riverbank 8
8.30am	<b>Opening Ceremony</b>	
9.15am	<b>KEYNOTE: Dr Gill Hicks</b> Artist, Published Author, Musician and Award-winning Director/Producer	
10.00am	<b>KEYNOTE: Jim Pauley</b> President and CEO, National Fire Protection Association	
10.45am	<b>Funding Announcement:</b> Gender and Disaster Australia	
10.50am	<b>Morning Tea, Exhibition Viewing and Poster Session</b>	
	<b>COMMUNITY AND COLLABORATION</b> Chair: Hannah Wandel National Recovery and Resilience Agency	<b>RECOVERY REVISITED</b> Chair: Samuel Savage Australian Red Cross
11.50am	<b>Panel: Collaborating for resilience: multicultural communities and emergency management</b> <b>Andrew Crisp</b> Emergency Management Victoria <b>Thuch Ajak</b> United Africa Farm	<b>Who is worst off after a disaster?</b> <b>Dr Kate Brady</b> University of Melbourne
12.20pm	<b>Sam Atukorala</b> Ethnic Council of Shepparton and District Inc. <b>Selba-Gondoza Luka</b> Afri-Aus Care Inc. <b>Dean Wickham</b> Pacific Islander Network <b>Veema Mooniapah</b> Multicultural Emergency Management	<b>The disaster fatigue of community leaders: a case study</b> <b>A/Prof Valerie Ingham</b> Charles Sturt University
12.50pm	<b>What does community led resilience mean, and how can it be achieved?</b> <b>Prof David Sanderson</b> University of New South Wales	<b>Disasters on disasters: finding best practice in communities affected by multiple disasters</b> <b>Dr Claire Leppold</b> University of Melbourne
1.20pm	<b>Lunch, Exhibition Viewing and Poster Session</b>	
	<b>BUSINESS INNOVATION</b> Chair: Nick Banks Australian Red Cross	<b>KANGAROO ISLAND</b> Chair: Glen Crump Australian Red Cross
2.20pm	<b>Panel: Innovative partnerships for community resilience</b> <b>Soraya Dean</b> NAB (facilitator)	<b>Empowering wisdom from below</b> <b>Dr Margi Prideaux</b> Independent Academic and Author
2.50pm	<b>Liz Mackinlay</b> Australian Business Volunteers <b>Kate Cotter</b> Bushfire Building Council of Australia <b>David Macdermott</b> Australian Red Cross	<b>Listening and learning on Kangaroo Island: supporting community resilience through post-emergency engagement</b> <b>Peta O'Donohue</b> South Australian Country Fire Service <b>Fiona Dunstan</b> Bureau of Meteorology
3.20pm	<b>Piloting a Resilience Investment Vehicle</b> <b>Jack Pollock</b> NAB <b>Lee McDougall</b> IAG	<b>Bushfires and businesses - not if, but when</b> <b>Jennifer McDonnell</b> WSP <b>Sue Arlidge</b> Regional Development Australia
3.50pm	<b>Afternoon Tea, Exhibition Viewing and Poster Session</b>	
	<b>PLANNING PERILS AND PATHWAYS</b> Chair: Melissa Parsons University of New England	<b>RESILIENCE AND SOCIETY</b> Chair: Andrew Coghlan Australian Red Cross
4.30pm	<b>Land-use planning for bushfire: 12 years of reforms in Victoria</b> <b>Kevin Hazell</b> Kevin Hazell Bushfire Planning	<b>'I thought you were more of a man than that': men and disasters</b> <b>Dr Deb Parkinson</b> Gender and Disaster Australia
5.00pm	<b>NSW Strategic Guide to Planning for Natural Hazards</b> <b>Felicity Greenway</b> NSW Department of Planning and Environment	<b>The effects of information disorder on societal resilience</b> <b>Dr Robert Muller</b> Torrens Resilience Initiative
5.30pm	<b>Conference Sessions Close</b>	
5.45pm	<b>ADRC Networking Function, featuring the South Australia Resilient Australia Awards Ceremony</b>	

# Day Two

TIME	STREAM 1, Riverbank 6 & 7	STREAM 2, Riverbank 8
8.30am	<b>KEYNOTE: Lucas Patchett OAM and Nic Marchesi OAM</b> Co-founders, Orange Sky Australia	
9.15am	<b>KEYNOTE: Dr Niki Vincent</b> Public Sector Gender Equality Commissioner, Victorian Government	
10.00am	<b>Morning Tea, Exhibition Viewing and Poster Session</b>	
	<b>ENGAGEMENT TO CATALYSE CHANGE</b> Chair: Trevor Kapeen Australian Red Cross	<b>CHILDREN, YOUTH AND DISASTER</b> Chair: Alex Mazzoni Insurance Australia Group
11.10am	<b>Let's do more than talk about weather</b> <b>Fiona Dunstan</b> Bureau of Meteorology	<b>PANEL: Understanding the educator's role in supporting children following a disaster</b> <b>Ben Rogers</b> Emerging Minds <b>Jess Moroney</b> Stirling East Primary <b>Louise Taheny</b> Yorketown Community Children's Centre <b>Nik Edwards</b> Be You Consulting
11.40am	<b>Developing the Second National Action Plan</b> <b>Jacqui Cristiano</b> National Recovery and Resilience Agency	<b>Ensuring young people have 'a seat at the table'</b> <b>Carla Hall</b> and <b>Quinn Obran</b> Youth Affairs Council Victoria
12.10pm	<b>DRR: Are we brave enough?</b> <b>Iain Mackenzie</b> Unearth	
12.40pm	<b>Lunch, Exhibition Viewing and Poster Session</b>	
	<b>CLIMATE AND DISASTER RISK</b> Chair: Katelyn Samson Australian Institute for Disaster Resilience	<b>COMMUNITY PREPAREDNESS</b> Chair: Leanne McCartney Local Government Association of South Australia
1.50pm	<b>Regional climate action. It's not rocket science to remember to include social science!</b> <b>Nina Keath</b> City of Onkaparinga	<b>Insights and learnings from NRMA Insurance - driving preparedness action at scale</b> <b>Georgia Whitbread, Jennifer Cobley</b> and <b>Anna Jackson</b> IAG
2.20pm	<b>Finding alignment between disaster risk reduction and climate change adaptation: Pacific perceptions, practice and policy</b> <b>Beth Eggleston</b> Humanitarian Advisory Group	<b>Evaluating a data driven, behaviour change design approach for bushfire preparedness</b> <b>Danielle Teychenne</b> Firethrive
2.50pm	<b>Refer to the conference app for session details</b> <b>Senator the Hon Jenny McAllister</b> Assistant Minister for Climate Change and Energy	<b>Strengthening disaster resilience: person-centered emergency preparedness (P-CEP) for people with disability</b> <b>Angela Cook</b> and <b>Kelly Stoner</b> Country Fire Authority Victoria
3.30pm	<b>CLOSING PANEL</b> <b>More co-benefits than you can poke a stick at: organising arguments for mainstreaming disaster risk reduction</b> <b>Carlene York</b> NSW State Emergency Service, <b>Dr Kate Brady</b> University of Melbourne <b>Martijn Gough</b> AITHEP and <b>Prof Stephen Dovers</b> Australian National University	
4.30pm	<b>Closing Ceremony</b>	
5.00pm	<b>Conference Concludes</b>	

LOCATION KEY:

- AFAC22 Plenary
- Stream 1 room: Riverbank 6&7
- Stream 2 room: Riverbank 8
- Foyer AB
- Trade Exhibition (allow five minute transition time)

\*Program is correct at time of printing

# Meet the keynote speakers



9:15 AM | WEDNESDAY 24 AUGUST

## Dr Gill Hicks AM MBE

| Artist, Published Author, Musician and Award-winning Director/Producer

An artist, published author, musician and award-winning director/producer - Gill Hicks is a powerful and thought-provoking communicator, sharing her insights on life after death.

Her vital work, particularly in countering violent extremism, became her focus after she was left severely and permanently injured from the actions of a suicide bomber in the co-ordinated attack on London's transport network in July 2005.

Prior to the bombings, Gill was a respected figure within the fields of Architecture and Design in London, where she lived for over 20 years. Gill has been recognised and awarded for her many contributions to the arts, health care and peace building.



10:00 AM | WEDNESDAY 24 AUGUST

## Jim Pauley

| President and Chief Executive Officer, National Fire Protection Association

Jim Pauley is the President and Chief Executive Officer of the National Fire Protection Association (NFPA), a global self-funded non-profit organisation devoted to eliminating death, injury, property, and economic loss due to fire, electrical, and related hazards.

Prior to joining NFPA nearly eight years ago, Mr. Pauley concluded a 30-year career in the electrical and energy industry where he most recently served as Senior Vice President, External Affairs and Government Relations for Schneider Electric.

Mr. Pauley serves as the Chairman of the Board of Trustees for the Fire Protection Research Foundation, the research affiliate of NFPA. He has also served in several past leadership positions including Chairman of the Board for the American National Standards Institute (ANSI). He holds a bachelor's degree in Electrical Engineering from the University of Kentucky and was a licensed professional engineer in Kentucky.



8:30 AM | THURSDAY 25 AUGUST

## Lucas Patchett OAM and Nic Marchesi OAM

Co-founders, Orange Sky Australia

In October 2014, two best mates had a crazy idea to put two washing machines and two dryers in the back of a van, and wash and dry clothes for free. Nicholas Marchesi and Lucas Patchett, the 2016 Young Australians of the Year, founded Orange Sky – a world-first, free mobile laundry service for people experiencing homelessness. On a mission to improve hygiene standards, Nic and Lucas stumbled on something much bigger and more significant – the power of a conversation.

Orange Sky now has 35 laundry and shower services across 25 locations in Australia, with thousands of volunteers giving their time each week to help positively connect some of the 116,000 Australians doing it tough. The focus is on creating a safe, welcoming and supportive environment for people who are too often ignored or feel disconnected from the community.

Since its inception, Orange Sky has provided friends on the street with more than 2 million kilograms of free laundry, over 20,000 showers and more than 330,000 hours of genuine and non-judgemental conversation.



9:15 AM | THURSDAY 25 AUGUST

## Dr Niki Vincent

Public Sector Gender Equality Commissioner, Victorian Government

Dr Niki Vincent was appointed as Victoria's first Public Sector Gender Equality Commissioner in September 2020. She is responsible for overseeing the implementation of the Gender Equality Act 2020 and plays a key leadership role in promoting gender equality in the Victorian community and workplaces.

Dr Vincent has a wealth of experience in gender equality and organisational leadership. This includes serving as the South Australian Commissioner for Equal Opportunity from 2016-2020.

Prior to that, Niki held the position of CEO of the Leaders Institute of South Australia as well as a concurrent appointment as a member of the Remuneration Tribunal of South Australia. She has also led major programs of academic research in previous roles, holds an appointment as an Adjunct Associate Professor in UniSA's Business School and has established and run two successful not-for-profit organisations.

In addition, Niki is an active ambassador for Time for Kids – a respite foster care organisation – and sits on the board of InTouch Multicultural Centre Against Family Violence.

Niki is a mother of 4 adult children, a full-time foster parent, has 2 young adult stepchildren and 10 grandchildren. She spends her sparse free time with her partner, family, and friends, and enjoys hiking, seeing films, listening to Radio National podcasts and a variety of music, gardening, doing yoga and camping in remote places.

# Australian Disaster Resilience Knowledge Hub

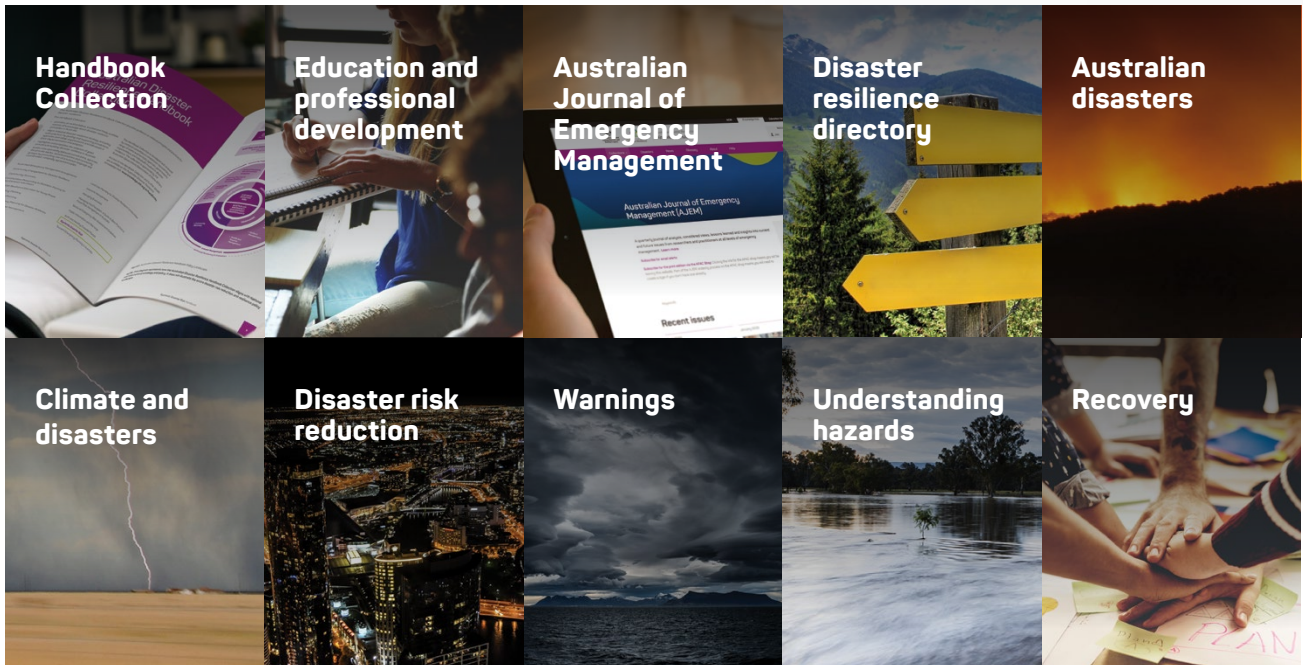
A national open-source, platform that supports and informs policy, planning, decision making and contemporary good practice in disaster resilience.

## The Knowledge Hub:

- fosters collaboration among leading agencies and organisations
- highlights current and emerging themes in resilience
- links national guidelines with research
- provides information on historical Australian disasters
- is available on desktop, mobile and tablet.



Disaster Mapper



## CONTRIBUTE A RESOURCE

Know of a great resilience resource? The Australian Institute for Disaster Resilience welcomes content submissions for the Knowledge Hub – read the guidelines and submit online at [knowledge.aidr.org.au/contribute](http://knowledge.aidr.org.au/contribute)

Scan to explore the Knowledge Hub

[www.knowledge.aidr.com.au](http://www.knowledge.aidr.com.au)



KNOWLEDGE.AIDR.ORG.AU



# Conference Abstracts – Day One

11:50 AM | WEDNESDAY 24 AUGUST

## PANEL

### Collaborating for resilience: multicultural communities and emergency management

**Andrew Crisp APM AO**, Emergency Management Victoria

**Thuch Ajak**, United Africa Farm

**Sam Atukorala**, Ethnic Council of Shepparton and District Inc

**Selba-Gondoza Luka**, Afri-Aus Care Inc.

**Dean Wickham**, Pacific Islander Network

**Veema Mooniapa**, Multicultural Emergency Management

Victoria has one of the most diverse communities in the world. Almost half of the population is born overseas or has at least one parent born overseas, and more than a quarter speak a language other than English at home. However, the emergency management sector has largely struggled to genuinely engage with multicultural communities, leaving them at greater risk.

In 2021, the Victorian Council of Social Service and the Ethnic Communities Council of Victoria established the Multicultural Emergency Management Partnership (MEMP) to strengthen relationships between multicultural communities and emergency services, and to enable all communities to better manage stresses and shocks, including emergencies, through a network of trusted, diverse and connected people.

MEMP members include leaders and connectors from a wide range of multicultural communities and all major emergency management agencies and organisations. Through its co-designed partnership model, the MEMP is working to:

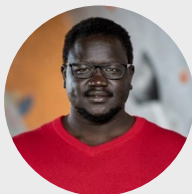
- Build stronger relationships at the local level
- Develop stronger understanding of community strengths and needs
- Ensure communities have access to simple and accurate information
- Increase cultural safety and inclusion within emergency management organisations
- Increase workforce diversity

The program is working to foster grassroots action at a local level and to affect structural change in organisations at a strategic level. An evaluation of the program to date found that the partnership has, for the first time, fostered a genuine dialogue between multicultural community leaders and emergency management agencies.

This program has provided a unique and important foundational step to building shared responsibility for emergencies between agencies and multicultural leaders and connectors.



**Andrew Crisp**  
APM AO



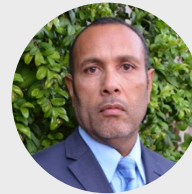
**Thuch Ajak**



**Sam Atukorala**



**Selba-Gondoza Luka**



**Dean Wickham**



**Veema Mooniapa**

12:50 PM | WEDNESDAY 24 AUGUST

## What does community led resilience mean, and how can it be achieved?

**Professor David Sanderson**, University of New South Wales

The uniting rhetoric for implementing successful resilience to natural hazards is that it is community-led. This is for good reason - the evidence points to communities being more resilient before, during and after disasters when they are in the driving seat of their own decision making. In Australia, as elsewhere, community-led resilience is widely adopted by state and national agencies and implementing NGOs and appears regularly in policy and planning documents.

However, for policy makers, emergency services and other service providers, supporting community-led approaches can be much harder to achieve. Experience from across the world following large scale disasters is that, very often, communities feel disenfranchised and not heard by the very services that strive to support them. Indeed, many argue that while a noble aspiration, achieving genuine community-led resilience remains a pipedream.

What then does community-led resilience mean, and crucially, how can it be achieved? This presentation addresses these questions in three parts. Part one provides a review of current policy and practice in Australia concerning efforts by organisations to achieve community-led resilience. Part two draws on the experiences of communities affected by disasters of the approaches adopted by service providers in disaster preparedness, response and recovery. Examples will be presented from Australia as well as other countries affected by disasters. Part three presents approaches from community development which build community-led actions, and that can be used to enhance community-led resilience. The presentation will draw on a current project underway in NSW that is trying to achieve this outcome, as well as projects in other countries.



**Professor David Sanderson** has 30 years of experience working across the world in development and emergencies. He worked for four years in a disaster management consultancy, followed by eight years for the NGO CARE International UK as head of policy and as regional manager for Southern and West Africa. In 2006, David became Director of a UK university centre focusing on development and emergencies. Between 2013-14 he was a full time Visiting Professor at Harvard University teaching class on urban disaster resilience. David became the Inaugural Judith Neilson Chair of Architecture at the University of NSW, Sydney in 2016. David has sat on several NGO and funding boards. He is author of the 2019 ODI/ALNAP Urban Humanitarian Response Good Practice Review and was co-editor of the 2016 IFRC World Disasters Report focusing on resilience. David holds a doctorate in urban resilience and has held full and visiting professorial positions in the UK, Norway, USA, Australia and France.

# Who is worst off after a disaster?

Dr Kate Brady, University of Melbourne

Disasters result in a wide range of complex impacts. Some impacts are tangible and visible and others are more difficult to identify. Individuals who experience the same disaster event can be affected in different ways.

After disasters, ‘hierarchies of affectedness’ are formed, where people who have been affected by disasters are categorised by the severity of their impacts in comparison to others. This is sometimes done in formal ways and can play out in the media, politics and through emergency management agencies. These types of hierarchies have influence on practical things such as who gets access to financial aid, and what recovery supports are provided. Other times, hierarchies form in more covert ways, and are more difficult to define.

Grappling with the idea of how ‘who is the worst affected’ is calculated by agencies, affected communities and the broader public is an important part of all disasters, and is particularly relevant in events such as the COVID-19 pandemic.

Even though these hierarchies form after every disaster, little is known about the impacts of this process. Using data from a broader study, we progressed a model that was originally developed in Denmark to better understand hierarchies of affectedness and the role they play for those who have been impacted by disasters.

This presentation will look at:

- What is a hierarchy of affectedness?
- How do hierarchies of affectedness form?
- What real world implications do these hierarchies have on the support disaster affected people have access to?
- Can hierarchies of affectedness be useful?
- How can governments and emergency management agencies understand their role in hierarchies after disasters and reduce harm?
- How could an improved understanding of hierarchies after a disaster inform how support is provided in the future?



**Dr Kate Brady** has had a distinguished career over the past decade in disaster recovery operations, programming and research. After establishing and leading the Australian Red Cross Disaster Recovery program for 12 years, Kate is now a Research Fellow at the University of Melbourne and a technical adviser to Australian Red Cross and other organisations.

Most of Kate’s work focuses on what people find helpful and unhelpful after disasters. Throughout her career, Kate has had significant influence on state and national emergency management policy and has an international profile in collective trauma, risk and resilience and in disaster recovery program evaluations. In 2021, she became the host for ABC’s podcast ‘After the Disaster’.

12:20 PM | WEDNESDAY 24 AUGUST

## The disaster fatigue of community leaders: a case study

Associate Professor Valerie Ingham, Charles Sturt University

In this presentation, we define community disaster fatigue and establish what evidences disaster fatigue on a collective level. We do this through a vignette of one community that experienced the 2019–20 Black Summer fires, followed by flooding exacerbated by fire-denuded landscapes, which then merged into the prolonged COVID-19 pandemic.

The research purpose was to inform a community-based approach to identifying disaster fatigue on a collective level. We considered anyone who managed five or more people, in either a volunteer or career capacity, to be a community leader. We interviewed 14 community leaders from a variety of local not-for-profits, local government and emergency services, seeking the strategies they devised to keep their community group or organisation functioning whilst moving through a complex disaster situation

characterised by insufficient recovery time between events.

We found that disaster fatigue on a community level has the potential to destabilise and stymie a group or organisation's recovery, sometimes to the point of no return. To move forward out of a succession of destabilising events requires foresight and prior planning with an eye to preventing the collapse of public health, social and economic community structures.

We present our findings in the form of individual and collective indicators of disaster fatigue. Heeding these indicators will contribute to the early identification of a community struggling beyond its resilience capacity, and therefore in need of outside support in order to maintain everyday functionality.



**Associate Professor Valerie Ingham** lecturers in Emergency Management and supervises Doctor of Public Safety candidates at Charles Sturt University. She has extensive experience in the design and delivery of tertiary level programs in emergency management and fire services. Her recent research highlights the importance of local community organisations in building community connections for disaster resilience, with a particular focus on compound and cascading disasters leading to community disaster fatigue.

## Disasters on disasters: finding best practice in communities affected by multiple disasters

Dr Claire Leppard, University of Melbourne

Disasters have historically been considered as rare, singular events. However, the past decade has highlighted the ways that disasters can repeat, occur sequentially, cascade or overlap. In Victoria, numerous communities experienced the 2019–20 Black Summer bushfires, followed by the beginning of the COVID-19 pandemic in early 2020, and flooding in 2021. In early 2022, the Hunga Tonga eruption caused a tsunami which subsequently led to an oil spill. However, a key problem is that the majority of disaster-related research evidence, policy and guidelines for practice have been based on the premise of a single disaster occurring.

This presentation will draw on the outcomes of the Disasters on Disasters program of work led by Dr Leppard, focusing on results of recent interviews with

the Australian disaster recovery workforce involved in supporting communities affected by more than one disaster. This study asks the question: How is the process of supporting disaster recovery work affected by another disaster, or disasters, occurring? Through this analysis of workforce experience, this study explores the extent to which current resources and interventions are working well when applied to multi-disaster scenarios.

This presentation will outline the case for how we may begin thinking about ‘best practice’ in cases where multiple disasters occur. Implications will be presented through messages for practitioners and researchers, with the intention of informing practice, policies and interventions to move beyond the current ‘single disaster’ framing.



**Dr Claire Leppard** is a Research Fellow at the Child and Community Wellbeing Unit, Centre for Health Equity, Melbourne School of Population and Global Health, University of Melbourne. Claire completed her PhD at the University of Edinburgh and spent five years researching the 3.11 triple disaster, (earthquake, tsunami and nuclear disaster) in Minamisoma, Fukushima (Japan) before moving to Australia at the end of 2020. She currently leads the Red Cross Bushfire Recovery Program Evaluation and the new Disasters on Disasters program of research. Claire works at the intersection of social science and critical public health to improve understanding of the long-term health and wellbeing impacts of disasters. Her research takes a particular focus on what happens when people and communities experience multiple disasters. She is a co-editor on the new book *Health, Wellbeing and Community Recovery in Fukushima* published by Routledge as part of their series on Hazards, Disaster Risk and Climate Change.

2:20PM | WEDNESDAY 24 AUGUST

PANEL

## Innovative partnerships for community resilience

**Soraya Dean**, NAB

**Liz Mackinlay**, Australian Business Volunteers

**Kate Cotter**, Bushfire Building Council of Australia

**David Macdermott**, Australian Red Cross

In 2020, NAB formed a new flagship community program called NAB Ready Together. The program aims to support Australians before, during and after disasters. Cross sector approaches across government and civil society have been a critical part of this program. This session will be a panel discussion with key NAB Ready Together partners about insights and lessons from key community resilience projects, featuring:

- Australian Business Volunteers on harnessing skilled volunteers to support community-led recovery
- Bushfire Building Council of Australia on piloting a new loan to incentivise homeowners to upgrade their homes to be bushfire resilient as part of the Resilience Investment Vehicle project

- Australian Red Cross on community preparedness planning through the RediCommunities South Australian project.

The discussion will focus on the common approaches to partnerships with the key objective to build community resilience, the challenges related to partnering across sectors and working in disaster affected communities, and the key principles and skills that we can develop to deliver effective community resilience outcomes.

This interactive panel discussion will be chaired by NAB, with each panellist providing an overview of their community resilience project, and then having a broader conversation about how we can build organisational capacity to better collaborate and serve the community.



**Soraya  
Dean**



**Liz  
Mackinlay**



**Kate  
Cotter**



**David  
Macdermott**

## Piloting a Resilience Investment Vehicle

Jack Pollock, NAB

Lee McDougall, IAG

In a changing climate, natural disasters are becoming more frequent, severe and costly. To reduce risks and costs government, industry, and community need to work collaboratively on climate and disaster resilience. Change is needed across roles, competencies, and behaviours including how incentives, data, risk assessments, and investment criteria are designed and used.

IAG, National Australia Bank, CSIRO, state and federal government agencies are collaborating on pilots that will seek to fund built, social and natural interventions that build community resilience. The Resilience Investment Vehicle (RIV) pilot explores how public and private capital is directed to finance new and/or adapt existing infrastructure that builds resilience, reduces disaster risk and can derive a return.

The aims of the pilot are to:

- prove the concept with a view to implementing across other regions at scale
- build the understanding and capabilities of stakeholders involved in projects for resilience investments
- capture and share learnings that contribute to building the conditions of a national resilience investment market.

Through the pilots, the aim is to develop scalable investment strategies and build capabilities in effective community engagement, assessing resilience benefits, aligning incentives and returns with risk reduction and resilience benefits, and developing suitable financing approaches.



**Jack Pollock** has worked at NAB for 10 years, in roles within consumer banking; sustainability and climate, across: reporting, stakeholder engagement, and strategy. During a two-year sabbatical, Jack worked in sustainable finance at WWF-UK, engaging with institutional investors to foster the alignment of their public equity portfolios to Paris goals, in line with the recommendations of the Taskforce on Climate-related Financial Disclosures. His role's current focus is developing NAB's climate growth strategy, including the setting of 1.5C net zero by 2050 aligned targets for NAB's lending to key sectors.



**Lee McDougall** is a purpose-led sustainability professional with Australian and international experience in the corporate, not-for-profit and consulting sectors. Since joining IAG over a decade ago, Lee has worked in leadership roles driving corporate sustainability, shared value innovation and multi-sector collaborations focused on building safer and more resilient communities. As Executive Manager, Climate Action, Lee now leads IAG's climate change approach, including an enterprise-wide Climate & Disaster Resilience Action Plan and a portfolio of climate-related projects. She also Chairs the Shared Value Leadership Council in Australia. Lee completed her Master of Arts in International Relations as a Rotary International Ambassadorial Scholar at Keele University in the UK.

2:20PM | WEDNESDAY 24 AUGUST

## Empowering wisdom from below

Dr Margi Prideaux, Independent Academic and Author

During the 2019–20 Black Summer, unprecedented fires ripped across Kangaroo Island’s precious landscape in December and January. Wildfires are an ancient presence in Australia, but this was a drier, hotter season than ever experienced. The island faced monster fires that burned too hot and were impossible to contain. Even the island’s oldest souls gravely shook their heads and whispered ‘never before’.

Margi Prideaux and her husband lost their home and farm on that fateful day. In the aftermath of the fires, Margi chronicled her community’s journey from the disaster into the stark awareness of climate chaos. A small, rural community violently shunted from climate apathy to frontline witnesses of a global climate crisis.

Through a combination of community interviews and traditional journalistic research Margi, an independent academic and author, exposes the failures of preparedness and the subsequent recovery process. She reveals her community’s deepest wish—to adapt to survive by regaining local control; ‘We have experienced the beginning of the climate change curve and we cannot bequest this hell to future generations.’

The Kangaroo Island community experience demonstrates that decisions from above can be dangerously abstract and disconnected. To mainstream disaster risk reduction and resilience, amidst an increasingly complex and fraught risk landscape, we must adapt to empower wisdom from below.



**Dr Margi Prideaux** has written about wildlife, international politics, and law almost every day for the past 30 years as an international negotiator and independent academic. She has three books and numerous academic articles and essays in circulation. Having lived and lost in Australia’s 2019–20 Black Summer fires, she has joined the Planet Politics Institute and begun writing with a radically new direction. *FIRE: A Message from the Edge of Climate Catastrophe* is her first book on this new theme.



# Listening and learning on Kangaroo Island: supporting community resilience through post-emergency engagement

**Peta O'Donohue**, South Australian Country Fire Service

**Fiona Dunstan**, Bureau of Meteorology

After major emergencies such as the 2019–20 bushfires on Kangaroo Island, official investigations are launched and formal debriefs for emergency services personnel are initiated. Community members are generally not included in debriefs with community matters referred to recovery agencies and with no standard arrangements for debriefing and collating lessons learned from the community perspective. Post-emergency public meetings may be organised and research commissioned, tending to focus on how communities coped during the emergency and if preparedness initiatives influenced safety outcomes.

After the 2019–20 Kangaroo Island fires, face-to-face sessions were scheduled as part of the Royal Commission into National Natural Disaster Arrangements, where community could have shared their stories and learnings from this event. However, the pandemic meant public meetings were cancelled and submissions were predominantly written. This left the community feeling ignored by authorities, with community learnings unheard

and many unresolved questions about what happened and why.

Consequently, the South Australian Country Fire Service, recovery agencies and National Parks came together with an independent facilitator to co-develop the Kangaroo Island Fires Listening and Learning process. The aim was to provide Islanders with an opportunity to share their experiences of the fires with frontline and recovery agencies and be listened to without judgement. The sessions were based on the principle that listening helps build a shared narrative and supports understanding of, and coping and adaption to, the new circumstances.

This presentation describes this post-emergency community engagement approach and its outcomes, including personal reflections by the participants, exploring the challenges and benefits for authorities and communities and how this process could be used more widely to build community resilience.



**Peta O'Donohue** is Manager Partners Research and Program Development with the South Australian Country Fire Service (SACFS). Her background is in natural resource management and community engagement and her work includes building partnerships with key community and industry groups to promote shared responsibility and shared action for bushfire safety. She coordinates community research and new initiatives on behalf of the SACFS, including project managing the national study into community understanding of Fire Danger Ratings and Warnings and the Kangaroo Island Listening and Learning project in SA.



**Fiona Dunstan** is Manager, National Community Engagement with the Bureau of Meteorology and is responsible for the Bureau's community engagement program. Fiona has many years of experience working in and leading both public information and community engagement programs and teams in emergency management agencies. Fiona was the Chair of the AFAC Community Engagement Technical group for eight years and has been a member of numerous national and state committees.

3:20PM | WEDNESDAY 24 AUGUST

## Bushfires and business – not if, but when

Jennifer McDonnell, WSP

Sue Arlidge, Regional Development Australia

Bushfires and pandemics are both natural, but the dual catastrophic events of the 2019–20 bushfire season and emergence of the COVID-19 pandemic have caused devastation for many. Disasters challenge humans to be resilient, cooperative, and adaptable in the face of loss, grief, and trauma. The scientific consensus is that global warming is making bushfires more likely, last longer, and be more intense (IPCC 2014), presenting unique challenges to businesses and communities as they adapt and pivot to change. No one can say with much confidence about what’s going to happen tomorrow or the next day, other than that we need to be aware of our changing environment and be prepared for future events.

The economic cost of the 2019–20 bushfires, coupled with the COVID-19 pandemic is still emerging for Kangaroo Island, but is estimated to be approximately \$148.2 million. The emotional toll is unquantifiable and ongoing stress for the local communities and businesses is still being felt. The human cost of the 2019–20 bushfires included two beloved island community members having lost their lives.

In our presentation, we will share stories from Kangaroo Island, SA. Through the lens of the lived experience of several businesses and our own experiences providing advisory and support services in the immediate, response and recovery stages, we will answer the following questions:

- What business support services were most important after the bushfires?
- What services need to remain in place?
- What grant programs and policies need to be reviewed now, so they can be improved before the next disaster?
- What can businesses do to future-proof for disasters?

The presentation will conclude by sharing some recommendations that we believe will help build resilience and support businesses in their recovery in the event of future disasters.



**Jennifer McDonnell** is a skilled social outcomes, communications and engagement specialist who has many years’ experience, providing strategic and operational advice on many diverse projects across Australia. Her background in psychology complements her work as a community engagement and consultation expert in community capacity building and training. She regularly conducts a three-day training course in facilitation and conflict resolution for government, non-for profit and private enterprises. In 2020 she had the privilege to work with bushfire-affected communities delivering pro-bono project management, facilitation and engagement services for recovery projects on Kangaroo Island.



**Sue Arlidge** helps business, organisations and communities be the best they can by fostering the development of skills and vision, cooperation, and collaboration. As a strategic thinker, business mechanic, resource investigator and connector, Sue visualises the big picture and uses her strength in networking to connect people and business to create strategic alliances and achieve outcomes.

Having worked on Kangaroo Island for eight years, Sue has been actively involved in the significant economic transformation of the island. In that time Sue was an advisor to the Regional Development Australia (RDA) for 18 months during which time she led the RDA’s advocacy work on the ~\$64M SA Water Security project and mentored over 40 businesses impacted directly or indirectly by the Black Summer bushfires.

# Land-use planning for bushfire: 12 years of reforms in Victoria

Kevin Hazell, Kevin Hazell Bushfire Planning

It has been 13 years since the 2009 Victorian Bushfires Royal Commission handed down its report, with two-thirds of its recommendations directed to reforming Victoria’s land use planning and building system.

Despite setbacks and challenges, land use planning’s role in bushfire resilience has gone from strength to strength in Victoria. This will be explored through case studies that

help appreciate how decision making is being driven by past reforms.

This will provide a basis to contextualise how land use planning is progressively becoming even more responsive to bushfire, with a look ahead at the next phase of reforms being contemplated Victoria.



**Kevin Hazell** is a qualified town planner with experience in land use planning within local, state, and federal government. He commenced working in the bushfire space in 2010 as Manager Bushfire Planning at the Victorian Government’s department of planning. In this role he was responsible for implementing the land use planning recommendations of the 2009 Black Saturday bushfires royal commission.

Between 2010 and 2015, Kevin led the development and implementation of changes to how bushfire is considered in land use planning and development across Victoria. This included through new Victoria Planning Provisions, adjusted mapping of bushfire for planning purposes, planning system guidance and through a capacity building program that reached over 1,200 built environment professionals.

Since 2015, Kevin has worked as a consultant in the bushfire space, being engaged by over 30 Victorian councils, all three Victoria fire authorities, and the Victorian department of planning. He provides expert evidence into planning processes and delivers training to built environment professionals. He also recently completed the University of Melbourne Graduate Certificate in Bushfire Planning and Management.

5:00PM | WEDNESDAY 24 AUGUST

## NSW Strategic Guide to Planning for Natural Hazards

Felicity Greenway, NSW Department of Planning and Environment

Strategic land use planning plays a significant role in shaping future growth, development, and community resilience. Strategic planning that effectively considers the impacts of natural hazards at an early stage in decision-making limits exposure and vulnerability to risk through appropriate zoning and development controls that account for the constraints.

The NSW Department of Planning and Environment developed the *Strategic Guide to Planning for Natural Hazards* (the guide) and resource kit to help planning authorities and councils create more resilience in the community, build economic stability, protect valuable assets, integrate environmental principles and balance these with development demand.

The guide aims to inform the consideration of natural hazards in the preparation of regional and district plans, local strategic plans and community strategic plans, planning proposals and with other strategic planning activities.

The guide covers eleven natural hazards identified as posing a high or extreme risk to NSW and those that are

considered to have the potential in the future due to the effects of climate change.

The guide identifies eight guiding principles to support communities to be more resilient to natural hazards through strategic land-use planning. This includes being strategic and considering all risks from natural hazards early, ensuring we are protecting vulnerable people and assets and involving the greater community in conversations about risk and values, considering emergency response and evacuation, using the best available evidence and information, planning to build for the future, and understanding natural processes and natural hazards.

Each of these principles requires multi-disciplinary collaboration. Strategic planning calls for engagement and collective decision-making across state and local government, including with risk and emergency managers and asset owners. By incorporating these principles into the preparation of strategic plans we can build community resilience through multi-agency collaboration and deliver improved development outcomes on the ground.



**Felicity Greenway**, over the course of 25 years in planning, has built her professional practice to include oversight of planning processes for high-profile, critical infrastructure projects and assets at a state level. She has managed significant policy and assessment portfolios in the environment, resources and infrastructure space.

## 'I thought you were more of a man than that': Men and disasters

Deb Parkinson, Gender and Disaster Australia

The lived experience of men in disasters is unexpected. This presentation draws on interviews with men involved in fire and flood disasters from the 1943 Tarrawingee fire to the 2011 Benalla floods and Black Saturday in 2009. Research in 2013 with 32 men, and in 2018 with 26 men (aged 18-93) give an account that exposes the harm of gendered expectations.

Men's narratives were harrowing – and not just from disasters' physical danger. Equally damaging were society's assessments of individual men and how well they lived up to the challenge of the disaster. Masculinity was judged and commented on, and consequences in the workplace and the home followed. Men rated their own perceived 'failures' and spoke of the barriers they faced in coming to terms with their disaster experiences. Whether

first responders to natural hazards, or young and old men simply caught up in disasters, men spoke of expectations – from society, the workplace and family – that they be strong, stoic, brave and decisive.

The disaster literature identifies that gender stereotypes are more stringent in disasters. In the aftermath, the pressures only increase, and are amplified by the very real barriers to men accessing help to cope with their disaster experiences. In an increasingly risky world, it is vital that such expectations be recognised as both damaging and out-dated. Disaster risk reduction will be enhanced by a 21st century approach to who does what in disasters, and policies in the emergency management sector that prioritise both physical and mental health in its workers.



**Deb Parkinson** is a social researcher, focusing on gender issues. Over the past two decades, she has researched intimate partner violence and rape, women's unequal access to the legal system, and gendered discrimination through the superannuation system. Since 2009, her research has focussed on environmental justice and gender and disaster. In 2015, Debra was awarded the 'Social and Political Sciences Graduate Research Thesis Award' from Monash University for her PhD on increased domestic violence after the Victorian Black Saturday bushfires. She is currently an Adjunct Research Fellow with Monash University Disaster Resilience Initiative, and long-time researcher for both Women's Health in the North and Women's Health Goulburn North East, heading Gender and Disaster Australia.

5:00PM | WEDNESDAY 24 AUGUST

## The effects of information disorder on societal resilience

Dr Robert Muller, Torrens Resilience Initiative

The contemporary risk environment is characterised by disasters that are increasingly large-scale, multi-factorial, cascading events that have major disruptive effects on the resilience of interconnected physical, socio-technical, and social systems. Such hazards are increasing primarily due to the effects of climate change, but also by our attempts to manage the increasingly complex nature of modern society, characterised by a high degree of interconnectivity and interdependence.

To effectively manage and reap advantage from the complex interconnected system-of-systems that underpins developed societies, communities have employed widespread information infrastructure and technologies to manage these systems. These physical and socio-technical systems are particularly dependent on digital forms of communication and information because people live in an information ecosystem increasingly dominated by digital sources.

Underpinning these systems are social institutions comprising rules, conventions, norms, values, and customs. These institutions form the basis of the type of society that Australians cherish – cohesive, open,

free, and democratic. A cohesive society depends on an information ecosystem that promotes trust and truth, but still enables a vigorous civil society to flourish. In the contemporary era, the resilience of these institutions is under threat from information disorder.

Information disorder, defined as a set of problems which result in significant difficulty, distress, impairment, and disruption of our information environment, including as a result of the creation, transmission, and consumption of false (mis, dis, and mal) information, is on the increase, mirroring the disorder that underlies our social environment.

This presentation will explore the interactions between information disorder and social disorder, and how information disorder disrupts social institutions, social cohesion, and societal resilience through the undermining of the trust the public has in government and decision-making authority, rationality and science, the rule of law, and democratic institutions. The implications of information disorder for disaster resilience will conclude the presentation.



**Dr Robert Muller** has a background in community and societal resilience and a PhD in sociology. Over the last two years, Robert has been working on a range of defence-related projects with the Torrens Resilience Initiative mainly focusing on modern deterrence, and the team's more recent project on information disorder.

# Australian Disaster Resilience Handbook Collection

The Australian Disaster Resilience Handbook Collection supports the implementation of the *National Disaster Risk Reduction Framework* by providing national principles and guidance to strengthen the resilience of Australian communities to disaster.

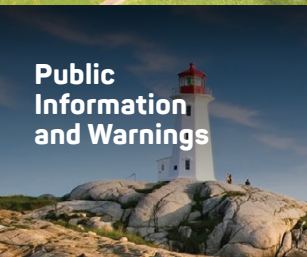
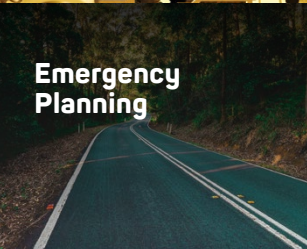
## The Handbook Collection:

- provides an authoritative, trusted and freely available source of knowledge about disaster risk reduction and resilience principles in Australia
- aligns national disaster resilience strategy and policy with practice, by guiding and supporting jurisdictions, agencies and other organisations and individuals in their implementation and adoption
- highlights and promotes the adoption of good practice in building disaster resilience in Australia
- builds interoperability between jurisdictions, agencies, the private sector, local businesses and community groups by promoting use of a common language and coordinated, nationally agreed principles.

View the  
collection online



[knowledge.aidr.org.au/handbooks](http://knowledge.aidr.org.au/handbooks)



[KNOWLEDGE.AIDR.ORG.AU/HANDBOOKS](http://knowledge.aidr.org.au/handbooks)

# Conference Abstracts – Day Two

11:10 AM | THURSDAY 25 AUGUST

## Let's do more than talk about weather

Fiona Dunstan, Bureau of Meteorology

The Bureau of Meteorology is one of the few organisations who touch the lives of all Australians every day. Our aim is to contribute to zero lives lost through natural hazards, and add \$2 billion of social economic impact and value to the Australian community.

Our climate is changing, and in recent years we have seen an increase in natural disasters and cascading events which have had a greater impact on communities. The Bureau, as a long-term community and emergency services partner and provider of critical forecasting and warning services is well placed to grow the Australian community's capacity and resilience to the impacts of weather, water, climate, space and oceans through data, education and knowledge building programs, in partnership with community focused organisations and the Emergency Management Sector.

In 2021 the Bureau established a national community engagement capability and created its Community

Engagement plan. The plan builds on prior engagement activities such as the Hawkesbury Nepean Valley Flood Risk Management Strategy and will implement new initiatives to support the rollout of the new AFDRS, improved Heatwave Services, preparedness for Space Weather and grow our engagement with First Nations people.

The Community Engagement plan was developed using the principles outlined in AIDR's *Community Engagement for Disaster Resilience Handbook* (2020) and the supporting companion documents.

This presentation will outline the Bureau's engagement plan and key initiatives, showcasing how the Bureau is working in partnership to empower communities to reduce their disaster risk, build community resilience and contribute to the Bureau's vision to contribute to zero lives lost.



**Fiona Dunstan** is Manager, National Community Engagement with the Bureau of Meteorology and is responsible for the Bureau's community engagement program. Fiona has many years of experience working in and leading both public information and community engagement programs and teams in emergency management agencies. Fiona was the Chair of the AFAC Community Engagement Technical group for 8 years and has been a member of numerous national and state committees.



11:40AM | THURSDAY 25 AUGUST

## Developing the Second National Action Plan

Jacqui Cristiano, National Resilience and Recovery Agency

Every year, Australian communities face devastating suffering and loss connected to natural hazard events. Bushfires, floods, storms, other hazards and their associated consequences can have significant impacts on exposed communities, the economy, infrastructure and the environment.

Significant ongoing efforts continue toward building Australia's resilience to the impacts of natural hazards through reducing disaster risk. However, with the drivers of a changing climate, population growth and urbanisation remaining, people and the things they value will continue to remain at risk.

The risk landscape is changing quickly:

- natural hazards are becoming more frequent and intense
- people, livelihoods and assets are more exposed and vulnerable
- essential services are increasingly interdependent and connected
- disaster impacts are long-term and complex

- the cost of disasters is growing
- the stability of natural, social, and economic systems can no longer be taken for granted.

Australia has embarked on a journey of learning how to coordinate national effort to understand and address systemic disaster risk. This journey has seen the release of a number of pivotal research pieces on the way, including Profiling Australia's Vulnerability report (2018), the National Disaster Risk Reduction Framework (2019), and the First National Action Plan (2020). It has also seen the establishment of the National Recovery and Resilience Agency (NRRA).

During 2022, the NRRA has been undertaking comprehensive multi-sector engagement and co-design for the development of the Second National Action Plan, which needed to ensure credibility, support, buy-in and use by those who can effect change to meet the objectives of the Framework.

During this session, the NRRA will share the lessons it has learnt on this journey to date and provide a sneak preview of its vision for the future.



**Jacqui Cristiano** has extensive Australian Public Service experience leading complex whole-of-Government work programs and a solid track record of successfully applying insight to deliver improvements to community experiences, service delivery, decision making and business outcomes. Her experience includes managing strategic research programs and projects, oversight of a large-scale complaints system, and developing domestic and international policy. Currently she leads on both social policy and environment policy for the National Recovery and Resilience Agency. Although relatively new to the emergency management policy space, Jacqui grew up in rural Victoria and has first-hand experience with floods, droughts and fires. Jacqui holds a Bachelor of Arts degree from Ballarat University.

12:10 AM | THURSDAY 25 AUGUST

## DRR: Are we brave enough?

Iain Mackenzie, Uearth

If the world is truly riskier, then the time to adapt is past. Simple evolution of known models to reduce disaster risk will no longer suffice. It's time to be brave and reform our approaches. Society is a complex system that revolves around people, their basic human, social and cultural needs serviced by an interconnected and co-dependant system of economy, politics, supply chains, services and infrastructure.

When disaster strikes, all these systems are stressed and impacted to varying levels. Disasters cause stress, confusion, tensions, and heightened emotions, every decision we make will somehow affect these feelings.

Instead of planning to deal with the impact of disasters we need to move to knowing and countering the consequences that will be faced, and on scales we have not previously encountered so that 'unprecedented' no longer justifies a failure of imagination.

Instead of planning to deal with damage (impact) to telecommunication towers or power loss of a few days or even network outages for weeks, we need to imagine

a world without electronic communication or internet access or email capability and think how we would support our communities to survive. What would be the consequences of a repeat of the 1859 Carrington event?

COVID provides the evidence of the need for change: While the health impacts are shocking, consequences have stretched across all aspects of society including employment, education, transport, supply chains, construction, health infrastructure, manufacturing, hospitality, tourism, and energy sectors. Recovery planning needs to start under blue skies.

This presentation will challenge our leaders to be brave:

- Brave enough to challenge reinvesting in the same
- Brave enough to challenge our current approach of 'planning to plan'
- Brave enough to think differently about when and how recovery should commence
- Brave enough to start these conversations today



**Iain Mackenzie** is an Adjunct Professor with Griffith University and holds a master's degree in Leadership and Management (Policing). Shaped by 40 years in the public safety sector, Iain is passionate about improving outcomes for people and their communities. Listening to the stories of individuals in their most trying times, Iain's mantra is that it doesn't matter how we feel about the job we have done, what matters is how we have made others feel.

From first responder, Deputy Commissioner of Fire and Rescue Services, Queensland's Inspector-General Emergency Management, to Senior Advisor to the Commonwealth's Minister for Emergency Management through the Black Summer bushfires, Iain has been a driver of some of the biggest changes to how emergency and disaster management has evolved. He is recognised for expertise in the fields of disaster management, disaster risk reduction and resilience building, having led reviews into some of the nation's largest disasters.

PANEL

## Understanding the educator’s role in supporting children following a disaster

**Ben Rogers**, Emerging Minds

**Jess Moroney**, Principal, Stirling East Primary

**Louise Taheny**, Director, Yorketown Community Children’s Centre

**Nik Edwards**, Be You Consulting

Following a natural disaster or community trauma event, a child’s school or early learning service remains an important protective environment for supporting their recovery. This can have educators feeling overwhelmed, as they are required to coordinate a variety of supports and services for children and families – in addition to their regular role within the school.

This panel will focus on providing educators with a foundational understanding of their role in the recovery process. It will offer a practical framework and tips for supporting children in the immediate aftermath, short-term and long-term following a disaster or community trauma – as well as preparedness skills and knowledge professionals can use in their daily practice and programs.

In this panel, participants will be introduced to a four-part framework designed to help them identify opportunities to support children’s resilience and recovery following a disaster or community trauma. The strategies provided

in each part of the framework can be used to support children during any phase of a disaster or community trauma event – preparation, immediate aftermath, short-term or long-term – as well as during ongoing disasters such as droughts and pandemics.

Following this panel, participants will be able to:

- recognise children’s responses to natural disasters and community trauma events in the immediate aftermath, short-term and long-term following the event;
- identify resources that can support educators in their work with children and families at any stage of disaster or community trauma; and
- incorporate trauma-responsive strategies into the educator role and school community following natural disasters or community trauma events.



**Ben  
Rogers**



**Jess  
Moroney**



**Louise  
Taheny**



**Nik  
Edwards**

12:10 AM | THURSDAY 25 AUGUST

## Ensuring young people have a seat at the table

Carla Hall and Quinn Obran, Youth Affairs Council Victoria

Youth Affairs Council Victoria (YACVic) was engaged by Bushfire Recovery Victoria and the Victorian Department of Education and Training to engage directly with young people and community members in rural and regional areas about their experiences of, response to, and recovery from the devastating 2019–20 Black Summer bushfires across Eastern Victoria. This provided community, in particular young people, with the opportunity to share their ideas for recovery, rebuilding and preparation for a better future.

The project resulted in the release of *A Seat at the Table: Young People and Disaster Recovery*, a guide co-lead and co-produced by local young people from bushfire-affected communities. The resource aims to ensure meaningful youth engagement, participation,

and inclusion, comprehensively addressing aspects of youth engagement and participation in disaster response, crucial to community resilience.

This presentation will outline and demonstrate how this accessible guide can assist committees, community leaders and other decision makers to ensure that young people are safely and meaningfully included in disaster preparedness, management, decision-making, project design and implementation, governance and evaluation.

YACVic will share opportunities to ensure young people have their ideas heard and understood by policy makers and service providers when designing or reviewing disaster initiatives that directly impact them and their communities.



**Carla Hall** joined the Youth Affairs Council Victoria (YACVic) in mid-2020, working as the Rural Youth Projects Coordinator, prior to this Carla worked directly with the flame impacted community of East Gippsland throughout the 2019–20 bushfires in the evacuation centre and brings a lived experience of disaster to her work in this space. Carla’s role involves the development of a youth-centred approach to bushfire recovery and mental health engaging directly with young people and community members in rural and regional areas about their experiences of, response to, and recovery from the devastating 2019–20 bushfires across Eastern Victoria. This provided young people, with the opportunity to share their ideas for recovery, rebuilding and preparation for a better future. For the past 15 years Carla has worked in the Youth Sector in Local Government, generalist youth work, employment, and homelessness. Carla lives and was raised on the lands of the Gunai Kurnai People and acknowledges that sovereignty was never ceded, and this always was, and always will be Aboriginal land.



**Quinn Obran** was born and raised in Corryong, and is an active member of Corryong’s youth working group which was established after the 2019-2020 bushfires. It was through the youth working group that Quinn heard about YACVic’s bushfire disaster recovery group, which she then became a part of. At the start of this year Quinn decided to pursue a degree in criminal psychology at Wollongong University, whilst continuing to support bushfire recovery, and the advocacy of youth involvement.

# Education for Young People

## Disaster resilience education: empowering young people to act

The Australian Institute for Disaster Resilience (AIDR) promotes the development of disaster resilience education (DRE) as a vital component in children and young people's learning.

AIDR's Education for Young People program provides strategic support for stakeholders from the education sector, emergency services, and youth-focused organisations and facilitates networks and professional learning and is informed by the *Sendai Framework for Disaster Risk Reduction*, the *Comprehensive School Safety Framework*, and Australia's *National Strategy for Disaster Resilience*.

Young people have an important role to play in raising awareness of the ongoing risk of disaster and working to build safer, stronger communities.

DRE equips young Australians with the skills, knowledge, and confidence to take protective action before, during, and after an emergency or disaster. DRE promotes a vision of young Australians who are agents of change enabled to participate as active members in skilled and resilient communities, working to reduce the risk of disaster.

## Disaster Resilient Australia New Zealand School Education Network (DRANZSEN)

- Provides a platform for sharing knowledge, practice, and resources to support learning and teaching about natural hazards and disaster risk reduction in Australia.
- Showcase initiatives which enable young people to develop and apply knowledge and skills to reduce the harmful impacts of disasters in the local context.
- Support and promote partnership approaches to disaster resilience, providing young people with authentic opportunities and audiences for learning, innovation, and action.
- 700 plus members across education, emergency services, and youth focused organisations.
- The DRANZSEN National Forum takes place every year and provides a platform to share experiences, learn from best practice examples and case studies, and consult on national priorities for disaster resilience education.

### Disaster Resilience Education Video Case Studies

Scan the code or head to YouTube and search "AIDR Harkaway Primary School"



Winners of the National Large Air Tanker Naming Competition. Clockwise from top left: Christian College Geelong, Bishop Druitt College Coffs Harbour and St Patrick's College Campbelltown.

## Naming Australia's Large Air Tanker

AIDR, on behalf of Emergency Management Australia and the National Aerial Firefighting Centre, managed the National Large Air Tanker Naming Competition. The competition invited Australian students in Years 5 to 8 from regional and rural schools to submit entries to name the aircraft.

The competition received entries from every Australian state and the former Minister for Emergency Management and National Recovery and Resilience, Senator the Hon. Bridget McKenzie, selected the name 'The Phoenix'.

The three winning schools, Bishop Druitt College Coffs Harbour, St Patrick's College Campbelltown, and Christian College Geelong, all proposed the name 'Phoenix'. Students from the schools said that is a 'symbol of renewal and rebirth', that the aircraft 'is curing the land with it's tears by putting out fires' and that it will allow 'new life rising from the ashes'.

[SCHOOLS.AIDR.ORG.AU](http://SCHOOLS.AIDR.ORG.AU)

1:50 PM | THURSDAY 25 AUGUST

## Regional climate action. It's not rocket science to remember to include social science!

**Nina Keath**, City of Onkaparinga

Many institutions have been proactive in funding research, policy and tools to address climate risks. However, despite significant effort and investment, there is widespread concern that progress is too slow, and stakeholders face social and institutional impediments to mobilising on-ground action. Bridging the gaps between science, policy and implementation remains a significant challenge.

Southern Adelaide's multi-award-winning regional climate partnership, Resilient South, is widely recognised for having bucked this trend, delivering on-ground strategic projects and cultural change within partner councils. Resilient South has helped shepherd climate change from a fringe issue to an embedded consideration. While there remains much to achieve, the partnership has delivered impressive outcomes, running on significant goodwill between partners.

We will share insights into how Resilient South has achieved action and argue that our approach of strategically integrating both the physical and social sciences has contributed to our success.

Technical investigations underpinned by rigorous physical science are essential for providing climate hazard data and risk. However, the social sciences help us understand that people's 'perceptions' around risk will significantly influence whether the risk is perceived as worth managing and the types of management approaches that should be adopted. The implications from one set of climate science will be interpreted and used differently depending upon people's aspirations, needs, beliefs, values and skills. Their surrounding socio-technical environment will also influence their capacity to respond. The failure of institutions to consider and strategically address social and institutional transition mechanisms may be part of the reason for the widespread perception that climate reforms are not meeting expectations and that evaluations of policy programs are showing a level of failure.

Resilient South has partially overcome this challenge by using the physical sciences to understand risk exposure, and the social sciences to identify pathways for transitioning towards more resilient practices and institutional settings.



**Nina Keath** is responsible for climate resilience at City of Onkaparinga. Her early career at Monash University was spent researching the ingredients required for transitioning towards more sustainable practices. Since returning to SA and joining local government she has relished the opportunity to apply social theory and watch it work in the real world. She believes that connected and empowered communities are resilient communities and so, outside of work, she contributes to a range of community building activities. She created a community thinktank, Ideas on the Fleurieu, with the simple goal of connecting good people with good ideas. As a regular contributor to Fleurieu Living Magazine she honours the contributions of inspiring locals. And she was a founding Trustee of the Awesome Foundation Fleurieu, supporting awesome ideas to become a reality via no-strings-attached, micro-philanthropy.

## Finding alignment between disaster risk reduction and climate change adaptation: Pacific perceptions, practice and policy

Beth Eggleston, Humanitarian Advisory Group

The case for integrating disaster risk reduction (DRR) and climate change adaptation (CCA) to minimise loss and damage, reduce vulnerability and strengthen resilience continues to grow. This is against a backdrop of increasing frequency and severity of disasters worldwide and the recognition that, at the community level, the distinction between DRR and CCA is artificial.

Linkages between the two policy fields, alongside communities' holistic understandings of what is driving their exposure to risk and how to manage it, have driven researchers, policymakers and practitioners to consider how to more closely align approaches and resources to produce better outcomes for crisis-affected populations.

The case has been made in academic and practitioner literature, agency reports and emerging policies, yet what

it means from a community perspective to integrate DRR and CCA has received little research attention.

This talk will present emerging findings from a localised research project that focuses on the Pacific, drawing lessons from abroad to dialogue at the domestic level in Australia. The talk will explore opportunities for integration of CCA and DRR programming, focusing primarily on local practice and implications at the community level, while recognising the influence of national and regional policy frameworks.

We will put forward emerging evidence of best practice and highlight opportunities to strengthen and build on these models to ensure better outcomes for Pacific Island communities in the face of a changing climate.



**Beth Eggleston** is passionate about approaching humanitarian action differently. After surviving the bureaucracy of large international NGOs and the United Nations, she now enjoys working with a small team to deliver leading-edge research and advice to enable the humanitarian sector to perform at its best. Beth co-founded Humanitarian Advisory Group in 2012, a social enterprise that aims to harness humanitarian passion with entrepreneurial energy and innovation. A 2019 Fulbright scholar, Beth was able to learn more about how militaries engage in disaster response operations at the US Naval War College.

1:50 PM | THURSDAY 25 AUGUST

## Insights and learnings from NRMA Insurance - driving preparedness action at scale

Jennifer Cobley, Georgia Whitbread and Anna Jackson, IAG

NRMA Insurance has a proud history of helping Australians build disaster resilience by helping communities better prepare for, adapt and respond to the impacts of natural hazards. Alongside our internal experts and partners, we will share learnings and insights through a series of case studies on our evolving approach to driving preparedness to support resilience action in communities.

The session will explore the evolution of seasonal preparedness activity to an ‘always on’ approach utilising collaborative partnerships (NSW SES, Australian Red Cross, NSW RFS, Minderoo Fire & Flood Resilience Initiative), behavioural science, data, and research to drive risk awareness and preparedness action.

Examples include:

- Encouraging monthly preparedness tasks around the home.
- Utilising claims data and consumer research to increase awareness and action.
- A first-of-its-kind Minecraft game using real-world data for climate preparedness.

- Creating a cultural conversation through film to help drive a resilience movement.

These case studies will be supported by an interactive discussion with our stakeholders focused on our learnings, challenges, and new opportunities in driving risk awareness and action at scale to support on the ground behaviour change. Opportunities we are continuing to explore through our evolving approach include:

- Targeted and hyper localised approaches to support community-led preparedness.
- Incentivising and rewarding action through moments in the preparedness journey.
- The necessity of cross-sector partnership, leveraging skills and capabilities.
- Ongoing measurement and evaluation challenges and opportunities.

This session will provide unique insights into our collaborative approach to influence and build disaster resilience from a leading Australian brand.



**Jennifer Cobley** is an experienced leader of strategic corporate and community partnerships and programs, driving social and commercial outcomes. She has a demonstrated history of working in the insurance industry and in building cross sector partnerships. As Executive Manager Disaster Resilience at IAG, Jen and her job-share partner Georgia Whitbread lead a team responsible for developing and executing activities that enable communities in Australia and New Zealand to better prepare for and respond to natural hazards, contributing to IAG’s purpose to ‘make your world a safer place’. This includes through preparedness and behaviour change campaigns and programs with long term community partners.



**Georgia Whitbread** is a social impact professional and works in the Safer Communities team at IAG. Georgia works with a range of partners and on projects that are designed to create safer, more connected and resilient communities. She is passionate about the role business can play in addressing pressing societal issues. She job-shares with Jennifer Cobley, as Executive Manager Disaster Resilience and together develop a disaster resilience program that delivers both business value and positive societal change for our customers and broader community.



**Anna Jackson** is responsible for strategic and creative direction across all IAG brands in Australia, managing a multi-disciplined team and a roster of external agency partners. In her time at IAG, she’s been at the helm of returning NRMA Insurance to growth and making it a leading example of marketing effectiveness. With more than a decade’s experience across of variety of roles with creative agencies, brand consultancies, a start-up (of her own making), and, most recently, corporate marketing, she has a breadth of first-hand experience in solving complex brand problems. She relishes in creating work where both business and broader society benefit.



## Evaluating a data driven, behaviour change design approach for bushfire preparedness

Danielle Teychenne, Firethrive

In a free online bushfire preparedness quiz and behaviour change campaign titled 'How prepared are you for a bushfire?', natural hazard resilience organisation FireThrive challenges respondents to become more equipped bushfire evacuees.

The tool is underpinned by Dr Kenneth Strahan's (2018) self-evacuation archetype research and doubles as an engagement strategy to help local government and emergency services engage their residents to become more prepared for a bushfire.

Learn about how the FireThrive team firstly distributed the tool throughout Australia, then – with data-driven insights – engaged local government areas.

The team partnered with a local government area to identify clusters of residents based on their perception of bushfires and preferred communication mediums.

In two design thinking workshops, representatives from a local government area identified areas for development, local community initiatives and high-risk populations.

Based on an ideation session, a bushfire behaviour change campaign was co-designed and produced with local residents. The campaign included a mix of interactive stories, tip sheets, case studies and animations.

This campaign was launched via a tailored poster, email and social media campaign, targeting the populations that often 'wait and see' to evacuate during a bushfire. Respondents can retake the quiz periodically, with profile shifts demonstrating behaviour change over time.

The entire process was underpinned by community co-design and evaluated to determine acceptability and effectiveness. Findings will contribute to the research literature for future program design.



**Danielle Teychenne** is a Co-Founder and Behavioural Designer at FireThrive, a social enterprise that empowers bushfire-prone communities across Australia to grow and adapt to the emotional and environmental challenges of bushfires. FireThrive achieves this through co-designed interventions, campaigns, tools and education. Danielle's passion lies in learner-centred education that leverages human emotion, story and play to deliver meaningful and memorable experiences. Danielle is currently undertaking a Master of Digital Learning Leadership with a research focus exploring how archetype targeted public health policy could be effective in closing the bushfire awareness-preparedness gap.

2:50 PM | THURSDAY 25 AUGUST

## Strengthening disaster resilience: Person-Centred Emergency Preparedness (P-CEP) for people with disability

Angela Cook and Kelly Stoner, Country Fire Authority Victoria

People with disability are at a disproportionate risk during a disaster. They are two to four times more likely to die in a disaster than the general population. Previous research shows that multiple categories of social vulnerability intersect with disability, which increases the risk in a disaster. However, there is insufficient empirical evidence about the causes of deaths of disabled population during a disaster. The CFA's Preparing Vulnerable People project deploys qualitative research that captures lived experiences of people with disability and demystifies key mechanisms behind this phenomenon.

This paper argues that Person-Centred Emergency Preparedness (P-CEP) holds the key for advancing disaster preparedness for people with a disability. To support our hypotheses, we draw from a unique data set of 10 participants delivered to over 20 people that capture

their lived experience. The findings provide support for our assertions regarding the role of P-CEP revealing the key tools for people with disability to optimise their self-reliance and planned reliance on others.

Participants' stories highlight the need to improve access to education that is inclusive. In addition, a capability approach supports self-assessment of strengths and support needs, thus contributing to a more nuanced understanding of fostering disaster resilience. This approach was trialled in three local government areas and robust evidence demonstrates the impact of P-CEP on improving emergency planning and disaster resilience. The recommendations provide empirical traction to improving fire preparedness planning and targeted service delivery for people with a disability.



**Angela Cook** is the Senior Engagement Advisor, People at Risk at the Country Fire Authority (CFA). Over the past three years she has managed the Preparing Vulnerable People (PVP) project, which aims to improve fire preparedness and safety for people at higher risk. People who have a disability are at disproportionate risk in emergencies, including both house fire and bushfire. Angela has worked in CFA's Community Preparedness for over 15 years and has managed a number of large state-wide community engagement programs and projects. Angela has a strong focus on accessibility and inclusion for all the community and believes strongly in the capability approach.



**Kelly Stoner** is a Senior Engagement Advisor – People at Higher Risk at the Country Fire Authority (CFA). Kelly has been a volunteer in her local CFA brigade for over 20 years with a particular focus on community engagement, and has worked in the health, aged care, and disability sectors. Kelly is passionate about social justice and improving access and inclusion for all using a person-centred capability approach. Kelly's current focus is on developing effective relationships with all relevant parts of the community, including individuals, informal and formal supports, service providers, advocates, peak bodies, funding bodies, relevant government departments, emergency services, and other subject matter experts, with the goal of increasing awareness of fire risk and improving the safety of people in higher risk groups in their homes.

3:30 PM | THURSDAY 25 AUGUST

PANEL

## More co-benefits than you can poke a stick at: organising arguments for mainstreaming DRR

**Carlene York**, APM NSW State Emergency Service

**Dr Kate Brady** Melbourne University

**Martijn Gough** AITHER

**Prof Stephen Dovers** Australian National University



**Carlene York**, APM



**Dr Kate Brady**



**Martijn Gough**



**Prof Stephen Dovers**





# MORE FROM AIDR

Scan the QR codes to access further information, resources, events and more.

## AIDR ON A PAGE

AIDR is the National Institute for disaster risk reduction and resilience. We collaborate across sectors to strengthen the resilience of Australian communities to disasters.



## AIDR APPROACH

AIDR creates, grows and supports a range of networks; provides opportunities for learning, development and innovation; shares knowledge and resources to enable informed decision making and action; and facilitates thought leadership through national conversations.



## AIDR MONITORING AND EVALUATION FRAMEWORK

This features our Theory of Change, which shows how we can contribute to a disaster resilient Australia.



## AUSTRALIAN DISASTER RESILIENCE HANDBOOK COLLECTION

AIDR handbooks support the implementation of the *National Disaster Risk Reduction Framework* by providing national principles and guidance to strengthen the resilience of Australian communities to disaster.



## AUSTRALIAN DISASTER RESILIENCE KNOWLEDGE HUB

A national platform that supports and informs policy, planning, decision making and contemporary good practice in disaster resilience.



## EDUCATION FOR YOUNG PEOPLE

AIDR's Education for Young People program recognises young people as active agents of change and provides strategic support for stakeholders from the education sector, emergency services, and youth-focused organisations.



## RESILIENT AUSTRALIA AWARDS

The Resilient Australia Awards celebrate, share, and promote initiatives that build and foster community resilience to disasters and emergencies. Submissions for the 2023 Resilient Australia Awards will open in March 2023.



## VOLUNTEER LEADERSHIP PROGRAM

The Volunteer Leadership Program supports the local leadership capability of disaster resilience and emergency management volunteers amongst community organisations, not-for-profits, disaster relief organisations and local government.



## PROFESSIONAL DEVELOPMENT

AIDR offers regular professional development opportunities to share knowledge and build national capability. Our evidence-based learning events are tailored for people working and volunteering in disaster resilience across a range of sectors.



## AUSTRALIAN JOURNAL OF EMERGENCY MANAGEMENT (AJEM)

Australia's premier journal for emergency management covering all hazards and emergencies. The quarterly journal features analysis, considered views, lessons learned and insights into current and future issues.



## AUSTRALIAN EMERGENCY MANAGEMENT LIBRARY

A nationally accessible source of emergency management information. The library provides services to universities, local government, individuals, and the emergency management sector.



## AIDR YOUTUBE CHANNEL

A collection of informative webinars, Handbook showcases, DRANZSEN professional development, case studies and more.



# Posters and voting

## AIDR Knowledge Centre poster voting

Vote for your favourite poster in the AIDR Knowledge Centre. Enter the number of the poster you like best using the AFAC22 Conference App.

### How to vote:

Open the **AFAC22 Conference App**. Select the 'Poster Vote' icon and choose the poster you'd like to vote for, then click 'Submit'.

① Voting closes at the conclusion of lunch on Thursday 25 August. Poster winners are announced at the closing ceremony.

No.	Title	Authors
4	Are firefighters at risk of occupational exposure to PFAS due to foods grown on Fire stations?	Mrs Krystle Mitchell, Yonatal Tefera
14	Young People's Climate Change Capitals. A Strengths-Based Resource For and By Children	Ms Phoebe Quinn, Dr Katitza Marinkovic, Prof Lisa Gibbs, Prof Dianne Vella-Brodrick, Assoc/Prof Janet Stanley, Dr Karen Block, Dr Claire Leppold
17	Growing adaptive business resilience in Cairns	Mrs Sioux Campbell, Mr Graham Nisbet
19	Prepare Communities for larger longer duration fires.	Mr Alan Mccartney
21	Mainstreaming disaster resilience: five principles exemplified by Birdie's Tree	Dr Andrea Baldwin
22	The Pyrolegium: extraordinary, unprecedented fire dynamics from Black Summer	Prof Rick Mccrae
36	Evolving disaster resilience in Regional Queensland	Mr Ben Riley, Ms Helen Maloney
40	Innovative community-led recovery powered by partnerships and skilled volunteers	Ms Liz Mackinlay, Ms Soraya Dean
41	Situational Awareness: Laying the foundation for high-risk decision making.	Dr Richard Gasaway
43	Understand Human Error and Improve Decision Outcomes	Dr Richard Gasaway
45	Cliff-top Vorticity-driven lateral spread - a new safety hazard for bushfire crews	Prof Rick Mccrae
47	Lessons from Black Summer Bushfires inform community-led disaster resilience	Ms Kate Fisher, Ms Jo Beadle
55	Innovation in Articulating Bushfire Risk	Ms Chris Neilsen, Mr Rory McKenzie, Mr Tim Gazzard, Ms Catherine McLeod, Ms Connie Lee
64	Protection, Gender and Inclusion? A feminist approach to disaster law and regulation	Ms Louise Baumann
66	Enhancing landslides risk reduction strategies in Southeast Bangladesh	Dr Edris Alam
67	Resilience alone will not get us through: Support needs post the 2019 North Queensland	Dr Robyn Preston, Associate Professor Adele Baldwin, Dr Paul Duckett, Dr Naomi Ralph, Professor Clare Harvey, Dr Bree Kitt, Mrs Elspeth Wood, Ms Joanne Harding, Ms Stephanie Palswadt
68	Volunteering to build disaster resilience	Ms Nadine De Santis
71	Exploring The Potentials of Improving Women's Wellbeing in Cyclones by Strengthening Community-resilience	Dr Tazrina Chowdhury, Professor Paul Arbon, Dr. Mayumi Kako, Dr Malinda Steenkamp, Professor Kristine Gebbie

No.	Title	Authors
83	Resilience Webs – lessons from fires and floods	Dr Karin Geiselhart
84	Animals Matter. Companion animal rescue and relocation capabilities	Mr David King
86	Taking to the Skies: role of RPAS in NSW SES in collaboration with SLNSW	Mr Peter Verwey, Mr Paul Hardy
87	Assisting NSW Police with real-time land search intelligence using NSW SES Land Search apps	Mr Peter Verwey
91	Bushfires and Your Health: building resilience through an engaging and accessible online short course	Dr Penelope Jones, Dr Sharon Campbell, Dr Duncan Sinclair, Mr James Brady, A/Prof Kimberley Norris, Prof Fay Johnston
95	Self-responsibility for household preparedness: Connecting perception to real-world activity	Michael Carrollc, Matt Dyer
97	Re-building of a community with resilience and confidence	Mr Winston Williams
99	Connecting our QFES community: capturing the voices of our diverse workforce	Ms Jodie Reid
102	Digital Fire Permit System - A new way to do old business	Ms Kate Elzinga, Mr Peter Baker, Mr Paul Horton
106	Building a Resilience Culture in the NSW Emergency Services - a Joint Agency Initiative	Ms Tenneile Manenti, Mr Jurie Rossouw
108	Innovation in Articulating Bushfire Risk	Ms Sharon Keith
109	Transdisciplinary Research to Address the Mental Health Impacts of a Changing Climate	A/Prof Fiona Charlson
124	Bushfire Community Legal Program: Who, What, Where, How. Sharing Our Impact and Lessons Learned.	Ms Holly McCoy
126	A bottom-up/top down approach to build community resilience models: the case of the South-eastern Pacific	Dr Paula Villagra, Dr Rodolfo Mardones, Dr Geraldine Herrmann, Ms. Macarena Ceballo, Ms. Tamara Muñoz
127	Development and effect of the Costa Resiliente Videogame	Dr Paula Villagra, Dr Cristian Olivares, Dr Rodolfo Mardones, Dr Luis Cárcamo, Dr Marino Bonaiuto, Dr Silvia Ariccio, Master Oneska Peña y Lillo
132	Fostering connectedness and resilience through physical health and wellbeing activities: The ripple effect.	Ms Kirrily Gould, Mr Dominic Hilbrink
145	A LiDAR-derived bushfire fuel load survey of the Adelaide Hills: from landscape- to property-level insights.	Dr Samuel Holt, Mr Fabrice Marre
148	Storm Lectures Needed Something Extra	Mr Graham Davis
149	Physical modelling of grassfire propagation on sloped terrain at field-scale	Prof Khalid Moinuddin, Mrs Jasmine Innocent, Dr Duncan Sutherland, Dr Nazmul Khan
150	Australian Fire Danger Rating System: Improving Community Safety	Miss Simone Mcdonnell, Dr Simon Heemstra, Ms Hiru Jay, Mr Wayne Kington, Dr Stuart Matthews
154	NSW Rural Fire Service 2019/2020 Bush Fires Rebuilding Compliance Support Scheme	Mr David Boverman, Stephen Woodham
155	A causal systems model for understanding how and why environmental changes impact mental health outcomes among rural Queenslanders	A/Prof Fiona Charlson, Dr Craig Jacobson
158	Assisted Agricultural Burns	Mr Nick Helyer
164	Empowering landholders to undertake positive fire management actions in a post-Black Summer world.	Ms Jennie Cramp, Ms Hannah Etchells, Ms Kate McShea
165	Bush Fire Risk Management Planning - the balance between science and experience	Ms Susannah Bilous, Ms Melissa O'Halloran
178	A holistic 'Resilience Engineering' and 'Deming cycle' approach towards better Hospital decision-makers learning from disasters	Dr Heba Mohtady Ali, Associate Professor Jamie Ranse, Professor Anne Roiko, Professor Cheryl Desha

No.	Title	Authors
182	Helping children recover – a scalable model for child-centred resilience following bushfires and other disasters	Mr Chris Anderson, Ms Sarah Eagland
183	Managing risk through partnerships – The Royal Far West Bushfire Recovery Program and Birdie’s Tree	Ms Sarah Eagland, Dr Andrea Baldwin
185	Swimming in the street: the emergence of sunny-day flooding in Pacific small island nations	Ms Mathilde Ritman, Mr Ben Hague, Mr David Jones, Mr Grant Smith
186	Burning Grass Trees	Dr Shaun Molloy, Natalie Lyons
190	Realistic urban planning with combined urban surface parameters to mitigate extreme summer heat	Ms Prabhasri Herath, Dr. Marcus Thatcher, Dr. Huidong Jin, Professor Xuemei Bai
195	Building capability in the care sector: Bushfire planning for people at greatest risk	Kelly Stoner
197	Examining Pathways to Rebuilding Community Resilience in Post-Disaster Settings	Dr Timothy Heffernan, Professor David Sanderson, Dr Paul Barnes
202	The Blue Shield: Assessing and addressing risk to cultural property and heritage	Ms Kathryn Dan, Ms Annette Mills
206	Resilience in a more demanding Disaster Relief & Recovery Environment.	Mr Dean Cerneka
208	Imagining effective resilience	Dr Christine Jessup
212	Right goods, to the right people, the right time during all stages of a disaster	Mrs Kate Stock
216	ISLAND Resilience Initiative: a Tasmanian prospective longitudinal health, stress, bushfire exposure and post-traumatic growth study.	Mr James Brady, Dr Penelope Jones, Dr Sharon Campbell, Dr Duncan Sinclair, Dr Larissa Bartlett, Associate Professor Rebecca Carey, A/Prof Kimberley Norris, Prof Fay Johnston, Distinguished Professor James Vickers
219	Emergency Management Training – Pitfalls, Dangers & Opportunities in a Post Pandemic world	Leonie Sudarsana
226	Fire On The Fringe	Elly Hanrahan, Fiona Macken
227	Reflections of providing medical support to a flood affected community in Greater Sydney.	Mr Dwight Robinson
229	Eye and vision problems reported by Australian firefighters during bushfire management	Miss Sukanya Jaiswal
230	Transformative role of Digital Engagement Capability in driving Community Resilience	Ms Christina Hanger
244	Development of a fine scale bushfire house loss probability model	Mr Alessio Arena, Mr William Swedosh Mr Peter Ashton, Mr Trevor Dess, Mr Garth Warren, Dr Raphaelae Bianchi
245	Tracking young people’s disaster recovery participation in the Snowy Valleys, NSW	Dr Timothy Heffernan, Professor David Sanderson, Dr Paul Barnes
253	Māori Firefighter Career Experiences and Expectations	Mr Edgar Pacheco, Mr Isaia Pihou, Dr Chelsea Grootveld, Charles Te Piki Thomas
255	Evolution of New Zealand wildfire social marketing campaign	Ms Kelley Toy
262	Person-Centred Emergency Preparedness (P-CEP): What is it?	A/Prof Michelle Villeneuve, Dr Jade Chang, Ms Parvathi Subramaniam
263	Fire and Rescue NSW’s Connected Firefighter	David Tchappat, Mr John Simonides
268	Health Checks supporting firefighters during safety critical work	Mr David Tchappat, Brendan Mott, Adelle Penning
273	A Blueprint for a Resilient South East NSW	Ms Stephanie Riddell, Ms Melinda Hillary
277	Are we succeeding at making Australian communities safer in the face of growing disaster risk?	Ms Tricia Addie, Ms Alexandra Nichols

No.	Title	Authors
282	Empowering & mobilising our young women to connect communities, reduce risk and build resilience.	Ms Bronnie Mackintosh, Firefighter Peter Jensen, Firefighter Burra McHughes
285	Collaborative research investigating prevalence, incidence, risk profiles and health impacts of Tasmania's residential fires (2010-2020)	Ms Qing Xia, Ms Lesley King, Ms Sandra Barber, Professor Andrew Palmer, Dr Barbara de Graaff, Dr Julie Campbell
300	Be You Supporting Children After a Natural Disaster	Ms Sally Hodges, Dr Nikki Edwards
303	Shifting the frame and sharing decisions: Supporting community led resilience building on the ground	Natalie Egleton, Amanda Howard, Sarah Anderson, Jacqui Bell
304	Community-driven action for thriving resilient and risk-informed communities – three rural community perspectives.	Natalie Egleton, Ms Jacqui Bell
306	Evolving our approach to drought	Ms Nina O'Brien, Ms Jacqui Bell
321	Building service provider capability in Person-Centred Emergency Preparedness: A training evaluation	A/Prof Michelle Villeneuve, Ms Parvathi Subramaniam, Dr Tonia Crawford, Dr Jade Chang
324	Building Importance Level - The missing link in fire safety documentation	Mr Pelle Zetterström
335	AFDRS Fire Weather Subdistrict Review for Western Australia	Miss Natalie Lyons, Mr Gianni Colangelo
336	A Systematic Review of 'Resilience' in Human-Computer Interaction (HCI) Research	Dr Jennyfer Lawrence Taylor
340	Developing emission factors for residual smouldering combustion of coarse woody debris, filling an important data gap	Mr Christopher Roulston, Ms Jennifer Powell, Ms Sally Taylor, Dr. Fabienne Reisen
343	Using a multi agency response framework during COVID19 by Emergency Managers in a healthcare organisation	Ms Mary Rose Fitzgerald, Mr Cian O'Brien, Mr David O'Sullivan
344	Telecross REDi Extreme weather response: supporting vulnerable individuals during extreme weather events.	Ms Alana Pedler
350	Strengthening disaster management through creativity: National taskforce for creative recovery	Ms Scotia Monkivitch, Ms Jen Rae, Mr Alex Wisser
351	Unleash the power of creativity: utilising culture and the arts to grow and connect through the disaster experience	Ms Scotia Monkivitch
353	Remaining relevant for now and building learning infrastructure for tomorrow	Mr Andrew Chan
358	Increased violence against women after Disaster in Australia	Rachael Mackay
359	Acting on Gendered Needs in Evacuation and Relief Centres	Jaspreet Kaur
361	Using Simulation technology in ensuring operational staff are ready for the unthinkable	Mitch Fitzgerald, Brenton Hastie
363	Communicating with Deaf and Hard of Hearing People in Emergencies	Chris Sedunary
367	Partnering with the Private Sector - Partnering with Masonic Charities	Sandy Pope
369	Bushfire Management Reform in South Australia	Anthea Howard, Danielle Drever, Andrew Patten, Ali Walsh, Anthony Anderson, Paula Slutzkin, David Phillips
372	School-based Emergency Services – A model for educating students about Bushfire Awareness, Volunteerism and Resilience.	Ms Andrea Vis
376	Development of an Evidence-Based Proficiency Test for Firefighters	Mohamed Noor Hafiz Bin Abdul Halim, Leong Hin Fong, Lowell Chong, Hasan Kuddoos S/O Abu Bakar Maricar, Lee Soon Huat



No.	Title	Authors
377	Attitudes and perceptions of Singaporean paramedics in mentoring trainees: a phenomenological study	Dr Cameron Goslingc, Marcus Poh Keong Tan, Ming Xuan Han, Hazeeq Bin Firoz, Vivienne Wee Li Teo, Dr Shih Yao Hwang, Dr Qin Xiang Ng, Guek Khim Tay, Dr Colin Tan
378	Strengthening Resilience – Fitness 4 Programme for Singapore Civil Defence Force Personnel	Nurhamizah Anwar, Patrick Lazaroo
379	Mental Health Support for Singapore Civil Defence Force’s Conscripts	Cheryl Low
380	SCDF’s Professional Development Framework	Nurhamizah Anwar, Patrick Lazaroo
386	Validating drought factor extreme fire weather assumptions	Miss Kim Opie, Will Swedosh Alessio Arena, Durga Shrestha
389	Small satellite energy-efficient on-board AI processing of hyperspectral imagery for early fire-smoke detection	Dr Stefan Peters
397	System changes to support community leadership and action	Dr Adriana Keating
398	Australian Inter-agency Incident Management System (AIIMS) Online Courses	AFAC
399	Australian Inter-agency Incident Management System (AIIMS) Products	AFAC
400	Improving Bushfire Data Layers for Australia	AFAC
401	AFAC National Resource Sharing Centre: Recent Deployments and Doctrine	AFAC
402	Everyday Respect: Start the Conversation	AFAC
403	AFAC Doctrine	AFAC
404	Disaster Resilience Education: Empowering Young People to Act	AIDR
405	Australian Disaster Resilience Handbook Collection	AIDR
406	Home Fire Sprinkler Coalition Australia Strategy	AFAC
407	Australian Disaster Resilience Knowledge Hub	AIDR
408	Australian Institute for Disaster Resilience Professional Events	AIDR
409	Residential Fire Fatalities Project	AFAC
410	Latest AFAC Learning and Development Guide for the Fire and Emergency Services	AFAC
411	AFAC Standards Representation	AFAC
412	Spark Operational Australia’s Newest Fire Spread Simulator	AFAC
413	NAFC fleet poster	NAFC
414	Australian Warning System	AFAC

### Find more on the Knowledge Hub


All conference proceedings and posters will be made available online via the Australian Disaster Resilience Knowledge Hub. Explore collections, resources and research curated by the Australian Institute for Disaster Resilience: [www.knowledge.aidr.org.au](http://www.knowledge.aidr.org.au)

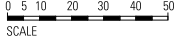
# Venue map

The Australian Disaster Resilience Conference will be held in Riverbank Rooms 6, 7 and 8 located on the lower level of the Adelaide Convention Centre.

**KEY:**

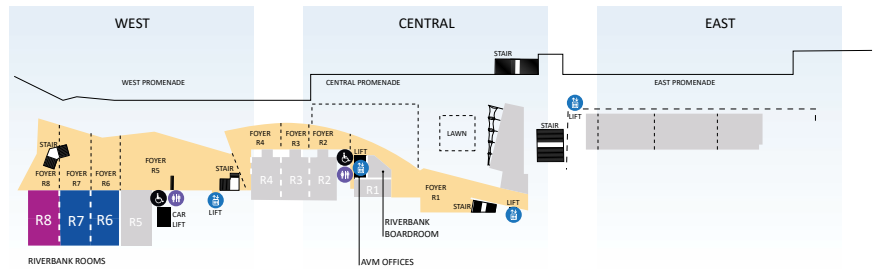
- AFAC22 Plenary
- ADRC Stream 1
- ADRC Stream 2
- AFAC22 Trade Exhibition
- ADRC Networking Drinks
- i REGISTRATION DESK
- R RECEPTION
- L LIFT
- T TOILET
- ♿ ACCESS TOILET
- P PARKING
- + FIRST AID ROOM
- P PARENT ROOM
- STAIRS & ESCALATORS
- FOYER





SCALE

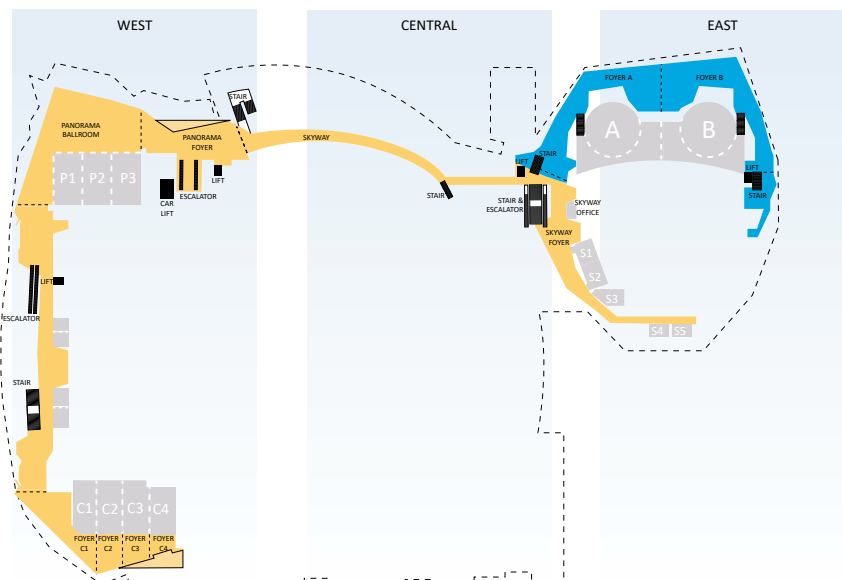
## LOWER LEVEL | Australian Disaster Resilience Conference streams



## GROUND LEVEL | AFAC22 Plenary and Trade Exhibition



## UPPER LEVEL | ADRC22 Networking Drinks



For more information visit  
[www.adelaidecc.com.au](http://www.adelaidecc.com.au)



# General information

## Venue

Adelaide Convention Centre, North Terrace, Adelaide, South Australia 5000

## Exhibition opening hours

Tuesday 23 August: 1:00pm - 8:00pm

Wednesday 24 August: 9:00am - 5:00pm

Thursday 25 August: 9:30am - 3:30pm

## Registration desk

The Conference Registration Desk is located in the Foyer G on the ground floor of the Adelaide Convention Centre.

## Name badges

Delegates are required to wear their badges to all conference and catering sessions. Uniformed security will be staffing the doors of the Exhibition and conference room, and badges are required to gain access.

To aid in the collection of contact details for exhibitors, each name badge has been printed with a unique barcode. Some exhibitors may have scanners which can record the contact information of visitors to their stand. Exhibitors will ask for permission before badges are scanned.

## Join the conversation

Keep up-to-date with the latest conference news on Twitter by following [@AIDR\\_News](https://twitter.com/AIDR_News).

Inspired by a session? Want to share something thought-provoking that a speaker said with other delegates? Did a panel session spark your imagination? Let us know what you think using the hashtag [#ADRC22](https://twitter.com/ADRC22).

Please ensure any tweets or other content shared on social media is respectful of speakers and other delegates.

## Delegate feedback

AIDR and our conference partners – AFAC and Hannover Fairs Australia – are determined to continually improve and refine the conference for delegates. After the conference, you will receive an invitation to complete our online post conference delegate survey. We value your feedback and hope you will take the time to fill in the survey, as the results are used to inform the planning of future events.

## Social program: Networking Function

Date: Wednesday 24 August, Time: 5:45pm - 6:30pm

A networking function will be held in **Foyer A & B – Upper Level** following the final presentations on Day One.

This year's networking function will feature the South Australian Resilient Australia Awards ceremony, hosted by SAFECOM.

## Cloakroom

Cloakroom facilities are located at the customer service desk just inside the of the Adelaide Convention Centre.

## Organisers' office

For information about the Organisers' office please head to the registration desk in the foyer

## Other information

### Insurance

The hosts and organisers are not responsible for personal accidents, any travel costs, or the loss of private property and will not be liable for any claims. Delegates requiring insurance should make their own arrangements.

### Smoking

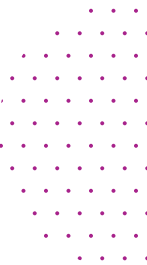
Smoking is not permitted in the venue.

### Mobile phones

Please ensure your mobile phone is turned to silent during any session you attend.

### Disclaimer

The opinions of the speakers do not reflect the opinions or position of AIDR, AFAC or Hannover Fairs Australia.



  #ADRC22

