

Melbourne Convention and Exhibition Centre

Australian Disaster Resilience  
Conference 2019

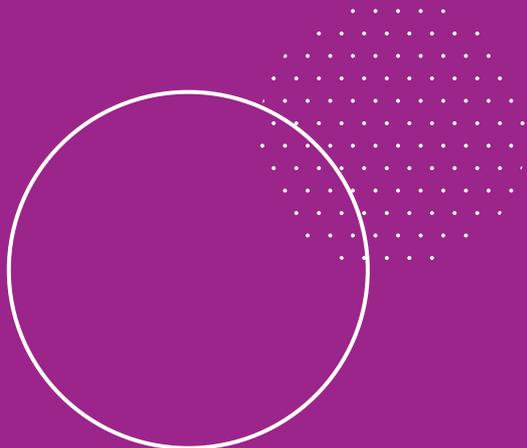
# Delegate Handbook

Are we future ready?

  #ADRC19

Running in partnership with AFAC19  
powered by INTERSCHUTZ



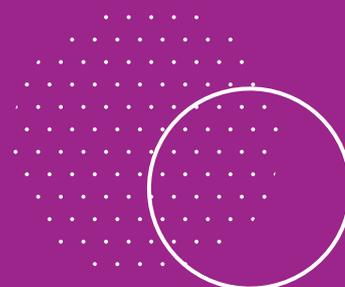


*The organisers of the Australian Disaster Resilience Conference respectfully acknowledge the Traditional Owners of the land on which this event is being held. Melbourne has always been a significant gathering place for the groups of the Kulin Nation, and we acknowledge and respect their continuing connection with the land.*

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# Foreword

It is with pleasure that we once again bring the disaster resilience community together for the Australian Disaster Resilience Conference.

Held for the first time last year in Perth, the conference was born in recognition of an emerging need – that as the disaster resilience community continues to expand and diversify, there is value in establishing a national platform where we can share our experiences, and connect with others facing similar challenges to spark new ideas and seek inspiration.

Our population continues to change and evolve as our nation grows, bringing both a strength in diversity and an increasing importance in ensuring that our collective disaster resilience efforts reach the many, not the few.

This year's conference will drive the important disaster resilience conversations we need to have. We are here in Melbourne to address the growing number of complex and interconnected challenges that lie ahead for Australian communities. In the context of a changing climate, shifting demographics and the influence of technology, we are coming to learn that the past can't always be relied on as an accurate predictor of the future.

With this in mind, the theme for the Australian Disaster Resilience Conference this year is: *Are we future ready?*

Supporting disaster resilience is a truly multidisciplinary affair that is progressed by the efforts of people working in many different fields. From planners to business people, volunteers to academics, not-for-profits and educators, emergency services and emergency managers at all levels of government, the strength of this conference lies in bringing people together to share what we have learned in working towards our shared goal of a disaster resilient Australia.

Over the coming days, you will have the chance to make new connections and gain insight from some of the leading disaster resilience thinkers and practitioners across Australia.

Take this opportunity to connect, reflect and learn together, and return home feeling inspired to act.



**Robert Cameron OAM**

Emergency Management Australia

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

Amanda Leck (AIDR/AFAC); Andrew Coghlan (Australian Red Cross); Ben Beccari (Victoria State Emergency Service); Brett Ellis (formerly Emergency Management Victoria); Bridget Tehan (Victorian Council of Social Service); Frank Archer (Monash University); Greg Taylor (AIDR/AFAC); John Bates (Bushfire & Natural Hazards CRC); Maree Grenfell (Resilient Melbourne); Margaret Moreton (Leva Consulting); Melissa Matthews (AIDR); Melissa Parsons (University of New England/Bushfire & Natural Hazards CRC); Renae Hanvin (corporate2community); Zoe Kenyon (AFAC)





# About the conference

The second Australian Disaster Resilience Conference builds upon the connections and ideas established at the inaugural event in Perth last year, again bringing the latest thinking and innovation in disaster resilience to a diverse and passionate crowd from across the country.

Faced with influences such as a changing climate, shifting demographics and evolving technology the conference considers what lays ahead by asking: *Are we future ready?*

Guided by underlying themes of connection, respect, empowerment and wisdom, we will explore how disaster resilience intersects with fundamental elements of our society: business, arts, education, and our relationships to one another.

The Australian Disaster Resilience Conference runs in partnership with AFAC19 powered by INTERSCHUTZ, Australasia's largest 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 a special closing panel to reflect on our lessons 10 years on from Black Saturday. This partnership also presents ample networking opportunities through

social events, official ceremonies and the extensive AFAC19 Trade Exhibition featuring the AIDR Knowledge Centre.

Delegates are invited to come together for the conference networking function, featuring the Victorian Resilient Australia Awards ceremony, hosted by Emergency Management Victoria.

Hosted at the 6-Star Green Star environmentally rated Melbourne Convention and Exhibition Centre, the Australian Disaster Resilience Conference strengthens our capability through connection as we prepare for our future together.

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

## Join the conversation with Slido

Slido is a web-based platform that allows you to use your phone or tablet to submit and upvote questions you would like to ask conference presenters. A selection of questions will be addressed following presentations and in panel sessions. Using Slido is simple:

1. Open your browser and head to [www.slido.com](http://www.slido.com)
2. Enter event code **ADRC19**

The Australian Disaster Resilience Conference is proudly supported by the City of Melbourne.





# About AIDR



The Australian Institute for Disaster Resilience (AIDR) develops, maintains and shares knowledge and learning to support a disaster resilient Australia.

Building on extensive information from Australia and internationally, we work with government, communities, NGOs, not-for-profits, research organisations, education partners and the private sector to enhance disaster resilience through innovative thinking, professional development and knowledge sharing.

Our approach to managing disaster resilience knowledge centres on building capability, reflecting AIDR's focus on knowledge management and professional development to guide our contributions to the disaster resilience sector.

Building knowledge based on practical experience and research supports AIDR to work holistically with a range of stakeholders, who are both our contributors and beneficiaries. AIDR will continue to be informed by a diverse network in the management of knowledge, promoting trust and a culture of shared learning, reflection and analysis.

AIDR is a consortium funded by the Department of Home Affairs and managed by AFAC, with the Australian Red Cross and Bushfire and Natural Hazards CRC as partners.

## Share your feedback about AIDR

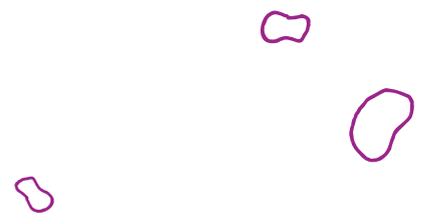
AIDR is here to support the disaster resilience community. We're seeking your feedback about what you find most useful and what could be improved. Share a short story about how AIDR has helped you make a difference for your chance to win a hard copy handbook from the Australian Disaster Resilience Handbook Collection.

There are three easy ways to share your feedback:

1. Head to [bit.ly/ADRC19](https://bit.ly/ADRC19) to fill in the survey online
2. Fill in the paper survey in your conference delegate satchel and return to the AIDR stand in the exhibition
3. Visit the AIDR stand to share your feedback directly with an AIDR staff member

The survey will take approximately five minutes.

*Please note this is not a survey about the conference. A conference evaluation survey will be emailed to you after the event.*





# AFAC19 Exhibition

powered by INTERSCHUTZ

Delegates of the Australian Disaster Resilience Conference have full access to the AFAC19 powered by INTERSCHUTZ Trade Exhibition throughout the duration of the conference. The exhibition at AFAC19 will be the largest ever, with hundreds of exhibitors from across the world presenting the very latest in emergency management equipment and services.

Central to the exhibition is the AIDR Knowledge Centre, featuring the latest in research and practice in its impressive poster display. Delegates are invited to view posters and meet poster presenters from the Australian Disaster Resilience Conference, AFAC19 and the Bushfire and Natural Hazards CRC Research Forum.

## At the Exhibition you will be able to:

- > Network and meet like-minded peers
- > Engage with conference presenters at the Meet the Speaker Lounge
- > Listen to presentations on the Expo Stage. View the program at:  
[www.afaconference.com.au/expo-stage](http://www.afaconference.com.au/expo-stage)
- > Check out emergency equipment in action in the Demonstration Zone
- > View cutting-edge emergency services equipment and technology

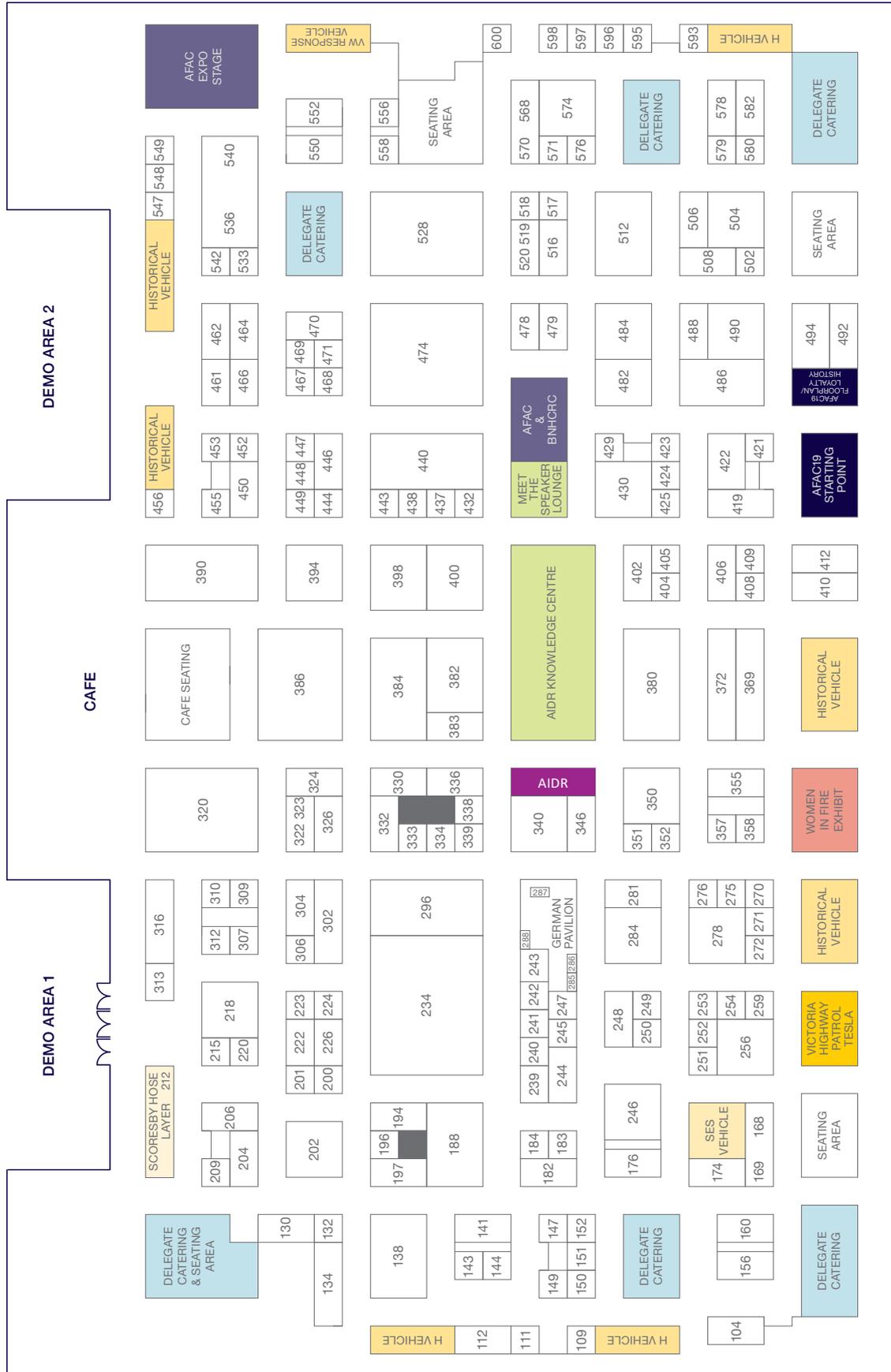
## What's on display?

- > Associations, organisations, service companies
- > Equipment for technical support and disaster relief
- > Rescue, emergency, first-aid and medical equipment
- > Measuring and detection apparatus
- > Security systems, control station and signalling technology, control and surveillance equipment, mechanical security systems, individual devices for electronic security systems
- > Simulation platforms and IT systems
- > Communications platforms

### EXHIBITION OPENING TIMES

Tuesday 27 August	1:00pm – 6:00pm
Wednesday 28 August	8:00am – 5:00pm
Thursday 29 August	8:00am – 3.30pm

# Exhibition map



Correct at time of printing

Wednesday  
28 August **Day One**

<b>8.30am</b>	<b>Opening ceremony</b>
<b>9.15am</b>	<b>Keynote:</b> Dr Robert Glasser – Australian Strategic Policy Institute
<b>10.00am</b>	<b>Keynote:</b> Eliane Miles – The Curious Co
<b>10.45am</b>	<b>Morning tea</b>
<b>CONNECTING FOR RESILIENCE – Chair: Maree Grenfell (Resilient Melbourne)</b>	
<b>11.40am</b>	<b>Does saying we're resilient make it so? The Cairns Resilience Scorecard Project</b> Sioux Campbell – Cairns Regional Council
<b>12.10pm</b>	<b>Empowering resilient businesses to drive thriving communities</b> Renaë Hanvin – corporate2community
<b>12.40pm</b>	<b>Building resilience through regional collaborations and partnerships</b> Jimmy Scott – Queensland Reconstruction Authority
<b>1.10pm</b>	<b>Lunch</b>
<b>SUPPORTING RECOVERY – Chair: Andrew Coghlan (Australian Red Cross)</b>	
<b>2.15pm</b>	<b>A recovery approach – drawing out the strengths within the community</b> Sharna Whitehand – Corangamite Shire Council
<b>2.45pm</b>	<b>Panel: Respect and recovery – state and local government working together with communities</b> Andrea Spiteri – Department of Health and Human Services Victoria Ange Gordon – Community member and Latrobe Health Assembly Anne Leadbeater – Leadbeater Group Euan Ferguson – Recovery Coordinator Leanne Barnes – Bega Valley Shire Council Wendy Graham – NSW Office of Emergency Management
<b>3.45pm</b>	<b>Afternoon tea</b>
<b>TAKING ACTION – Chair: Dr Margaret Moreton (Leva Consulting)</b>	
<b>4.30pm</b>	<b>Taking preparedness action to scale</b> Jacqui Pringle – Australian Red Cross
<b>5.00pm</b>	<b>Refuge 2019: Displacement</b> Emily Sexton – Arts House Claire Coleman – Writer and poet <b>Arts and culture – sustaining people and place in a changing world</b> Scotia Monkivitch – The Creative Recovery Network
<b>5.30pm</b>	<b>ADRC networking function – Featuring the Victorian Resilient Australia Awards Ceremony</b> hosted by Emergency Management Victoria
<b>6.30pm</b>	<b>Day one concludes</b>

Thursday  
29 August

# Day Two

8.30am	<b>Keynote:</b> Dr Lance O'Sullivan – The MOKO Foundation
9.15am	<b>Keynote:</b> Bronwyn Weir – Weir Legal and Consulting
10.00am	Morning tea
<b>DIVERSE PERSPECTIVES</b> – Chair: Bridget Tehan (Victorian Council of Social Service)	
11.10am	<b>'We want to show people what kids can do': A participatory student-led evaluation of the Strathewen-Arthurs Creek Bushfire Education Partnership</b> Brody, Lachlan, Liam, Rory, Scarlett – Strathewen Primary School Grade 6 students
11.40am	<b>Empowering disability-inclusive disaster risk reduction through cross-sector leadership</b> Dr Michelle Villeneuve – University of Sydney Mandy Moore – NSW Office of Emergency Management
12.10pm	<b>Return of the Firestick</b> Uncle David Wandin – Wurundjeri Elder
12.40pm	Lunch
<b>INCLUSIVE APPROACHES</b> – Chair: Ben Beccari (Victoria State Emergency Service)	
1.50pm	<b>On heatwave risk communication to the public: new evidence informing message tailoring and audience segmentation</b> Dr Scott Hanson-Easey – University of Adelaide
2.20pm	<b>The lived experience of four disasters – insights into community urban resilience experiences</b> Kristin Gabriel – Resilient Sydney
2.50pm	<b>The future is now for the inclusion of women in emergency management planning</b> Mary Farrow – Emerald Community House
3.30pm	<b>Closing panel: A changing world, 10 years on from Black Saturday</b> Andrew Stark – SA Country Fire Service Anne Leadbeater – Leadbeater Group Dawn Hartog – Forest Fire Management Victoria Deb Martindale – SentientCo (Chair) John Richardson – Australian Red Cross Steve Warrington – Country Fire Authority
4.30pm	Closing ceremony

**LOCATION KEY:**

 AFAC19 Plenary

 Room 212

 Exhibition (allow five minute transition time)

# Meet the keynote speakers



## Dr Robert Glasser

Australian Strategic Policy Institute

🕒 9:15 am | Wednesday 28 August

Currently a Visiting Fellow at the Australian Strategic Policy Institute (ASPI) and Honorary Associate Professor at the Australian National University, Dr Robert Glasser brings his previous experience as the United Nations Special Representative of the Secretary General for Disaster Risk Reduction and Head of the United Nations Office of Disaster Risk Reduction (UNISDR) to the conference stage.

Dr Glasser has over 30 years of experience as a practitioner, advocate and policy-maker in the areas of sustainable development, climate change and disaster risk. This knowledge informs his current focuses on the new era of disasters. He has published on several topics, including climate change, disaster risk, peace and conflict, and development policy.



## Eliane Miles

The Curious Co

🕒 10:00 am | Wednesday 28 August

In her capacity as a social researcher, business strategist, demographer and trends analyst, Eliane Miles brings a research-based understanding of leadership, the future of work, workplace culture, communication and the engagement styles of future generations.

Her research provides a 360-degree view of how demographic shifts combine with social change, generational transitions, and digital trends, and bridges the gap between the numbers and their real world application.

In her keynote presentation, Ms Miles will explore how communities are shifting and communicate these trends to help guide the disaster resilience community to adapt to these changes.



## Dr Lance O'Sullivan

The MOKO Foundation

🕒 8:30 am | Thursday 29 August

From a young boy labelled by society as a trouble maker, Dr Lance O'Sullivan developed into a passionate advocate for Māori health. Today, he is a pioneer for equal health care in his community and a champion for creating a fairer New Zealand.

Disillusioned with a system that failed to deliver the care needed for his patients, Dr O'Sullivan looked to his skills acquired through his cultural heritage and medical training to establish a health care service that ensures appropriate and quality health care reaches the right people at the right time.

His keynote presentation will apply the lessons from his own journey to inspire others to harness their cultural heritage in overcoming barriers or limitations in their own work.



## Bronwyn Weir

Weir Legal and Consulting

🕒 9:15 am | Thursday 29 August

As a lawyer specialising in government law for regulators, Bronwyn Weir is was co-appointed with Professor Peter Shergold by the Building Ministers Forum in 2017 to make recommendations on a national best practice approach to regulation of the building sector.

The appointment reflects Bronwyn's in-depth knowledge of building regulation having acted over many years for building regulators, local government, fire brigades and the Architects Board in Victoria. Bronwyn was a member of the Building Regulations Advisory Committee for over 10 years and is a legal advisor to the Victorian Cladding Taskforce.

Bronwyn has also advised regulators in a range of other sectors including human services, education and natural resources.

Wednesday  
28 August

# Conference abstracts

## Does saying we're resilient make it so? The Cairns Resilience Scorecard Project

🕒 11:40 am | Wednesday 28 August

👤 Sioux Campbell – Cairns Regional Council

Across the nation resilience has become a buzzword. At the very mention of an adverse event resilience is associated, generally referring to the practical response actions undertaken by affected communities. But what does resilience actually look like – and does simply saying a community is resilient make it so?

As one of just six Australian cities and the only Australian role model city signed up with the UNISDR Resilient Cities campaign, Cairns takes a proactive, strategically planned approach to disaster resilience building. Realistically measuring resilience is an ongoing challenge, particularly in regions such as Cairns where the absence of a major disaster for many years breeds complacency and urban myth.

In 2014, two years after its community resilience program began, the Cairns Regional Council's disaster management unit implemented a comprehensive stocktake of the state of resilience at social and infrastructural levels. An assessment of two resilience scorecard methods was undertaken and the decision made to use both, to provide a more

complete baseline understanding of resilience in the region. Aiming concurrently to build empowerment of the many communities involved in building resilience, the UNISDR and Torrens Institute scorecards were completed using a participatory approach which incorporated community research and mapping and directly engaged community members, groups and organisations, disaster management agencies and individuals. Methods included self assessments, surveys, focus groups, workshops, discussions at community events and one-on-one interviews, with the information gained shared collaboratively.

As a result, those involved have reported a much deeper understanding of the importance of holistic resilience and their role in maintaining and developing it into the future. Gaps which were identified continue to be integrated into resilience building projects, with the scorecard due for reassessment in 2020. The program won IAP2's 2018 Australasian Core Value awards for Disaster and Emergency Services.



— **Sioux Campbell** is the Disaster Resilience Officer for Cairns Regional Council. She has extensive experience in the public and community sectors in community engagement, behaviour change and crisis management. Specialising in tricky environmental issues and risk communication, Sioux is a multi award winner in public relations, public participation and resilience. She is a life member of the New Zealand Association for Environmental Education, a Fellow of the Public Relations Institute of New Zealand and regional ambassador for the International Association of Public Participation.



## Empowering resilient businesses to drive thriving communities

🕒 12:10 pm | Wednesday 28 August

👤 Renae Hanvin – corporate2community

The 'business' stakeholder group (aka private sector) is regularly acknowledged under shared responsibility yet is minimally understood and rarely engaged to actively play a proactive role. Why?

Australian businesses, from small to large, are in no way prepared for our future era of natural or human induced disasters.

Yet as the economic backbone of Australian communities, we need all businesses, not just those providing critical infrastructure needs, to be ready from an organisational resilience and community resilient lens – to bounce back better when disruption occurs.

This requires all business-types within the private sector to be educated, connected and motivated on the importance of integrating a disaster resilience mindset into their business-as-usual operations.

With evidence clearly showing existing disaster response approaches are not equipped to handle the predictions of our future, it's time traditional stakeholders within the emergency management sector acknowledge and support 'good practice' shared value private sector contribution.

Businesses are integrated into our communities, and to be ready for the predicted glass half empty future ahead we need to think different and start building trust and co-operative outcomes in conjunction with all categories of the private sector.

In this presentation, Renae will showcase local and international examples of why businesses should be embraced instead of being treated like a token player in the emergency management and disaster landscape. Renae will challenge attendees on why they need to think different and do different when it comes to including private sector participation in building a future of disaster resilient communities.



— **Renae Hanvin** is a highly experienced stakeholder engagement specialist who connects businesses with government, emergency services and communities before, during and after disasters. Known for 'doing disasters differently', Renae is motivated by her personal experience of disasters, belief in the private sector, knowledge of community needs and understanding of government limitations. Having led the community disaster response approach for large national corporates prior to consulting within the emergencies sector, Renae is driven by her two-fold focus of building organisational resilience and community resilience across all businesses and communities within Australia. A strategist, networker and facilitator, Renae has an MBA, is an IAP2 and AICD member as well as a strategic advisor for the Australasian Women in Emergencies (AWE) network.



## Building resilience through regional collaboration and partnerships

🕒 12:40 pm | Wednesday 28 August

👤 Jimmy Scott – Queensland Reconstruction Authority

The increased frequency and severity of disasters caused by our changing climate is creating an uncertain future, making it necessary to prepare communities for the unprecedented.

Being 'future ready' requires us to find innovative ways for disaster resilience to be embedded into daily life as part of business-as-usual, rather than a separate action for disaster managers.

Regional collaboration and partnerships are key strategies being undertaken by the Queensland Reconstruction Authority (QRA) to strengthen community resilience now and into the future. The QRA is partnering with local governments to develop regional resilience strategies through a process that is state facilitated and locally led. The Burnett Catchment Flood Resilience Strategy was the first pilot project delivered in 2017, with a further three pilots now underway to overcome a range of issues including multi-hazards and persistent drought.

The strategies are informed through a co-design process that respects local knowledge and wisdom and empowers local leadership to determine key priorities for each region. The strategies focus on connecting people across government boundaries and professional disciplines as a means of identifying shared solutions to common problems that can be implemented over time.

In 2016, the QRA undertook extensive consultation with local governments throughout Queensland to hear the challenges they face in managing flood risk. Key challenges raised include risk intelligence, community resilience, land-use planning and building controls, environmental management and disaster management. This work was the catalyst for a new delivery model for increasing disaster resilience at the local level as demonstrated through the regional resilience strategy pilot projects.



— **Jimmy Scott** has extensive working knowledge within the Queensland Reconstruction Authority (QRA), having worked in the organisation since May 2012 to successfully manage the acquittal of the state's largest reconstruction program following 2011 events including Severe Tropical Cyclone Yasi. As QRA's General Manager of Operations for 3 years, he assisted state and local governments prepare for and respond to natural disasters. In April 2019, Jimmy commenced as General Manager of Resilience at QRA, which coordinates implementation of the Queensland Strategy for Disaster Resilience. Jimmy is experienced in state government grants administration and has worked across both Queensland and Northern Territory. Jimmy is passionate about helping communities build their resilience and enabling quick recovery following natural disasters.



## A recovery approach – drawing out the strengths within the community

🕒 2:15 pm | Wednesday 28 August

👤 Sharna Whitehand – Corangamite Shire Council

The South West complex fires left our community overcome and unsure how to move forward. The Corangamite Shire fire recovery team have worked through a community led and case management recovery process to bring out our community strengths and provide linkages to support services.

Our community is connected, supportive, humble and resourceful. How did we draw on these strengths? Knowing the community, respecting their systems, supporting and encouraging them to help each other, building strong networks to the support services and simplifying bureaucratic processes across the government agencies involved in this recovery.

We will share a 10 minute video of our community members' experience and present the recovery process we have implemented alongside the challenges and solutions. The

recovery has focused on the directly impacted residents from across the three fires, Camperdown, Terang-Cobden and Garvoc which commenced on 17 March 2018 and continued for 53 days until the final peat fires at Cobrico and Lake Elingamite were declared safe on Tuesday 8 May. The impacts included more than 10,000 hectares burnt, killing 2000 head of livestock and destroying 25 homes, 61 sheds, extensive fencing and feed. The recovery also comprises the struggles presented by the small businesses of these townships and the complications of the peat fires around the lakes. The council team of four have actively worked with a base of 180 cases.

We feel this recovery has been a success, while we continue to learn and evolve throughout the recovery process, we believe we have some key messages to share with the sector as the sector explores the next phase of recovery within the before, during and after framework.



— **Sharna Whitehand** is the Municipal Emergency Management Officer at Corangamite Shire and for the past 18 months has been part of the fire recovery team following the South West fires in March 2018. She comes from a fire and local government background and has broad experience both here in Victoria and California. While working with a particularly resilient Californian community who experience major emergencies regularly, she gained insights which she applied when working with the connected rural farming community in South West Victoria.

## Respect and recovery – state and local government working together with communities

🕒 2:45 pm | Wednesday 28 August

👤 Andrea Spiteri – Department of Health and Human Services Victoria

👤 Ange Gordon – Community member and Latrobe Health Assembly

👤 Anne Leadbeater – Leadbeater Group

👤 Euan Ferguson – Recovery Coordinator

👤 Leanne Barnes – Bega Valley Shire Council

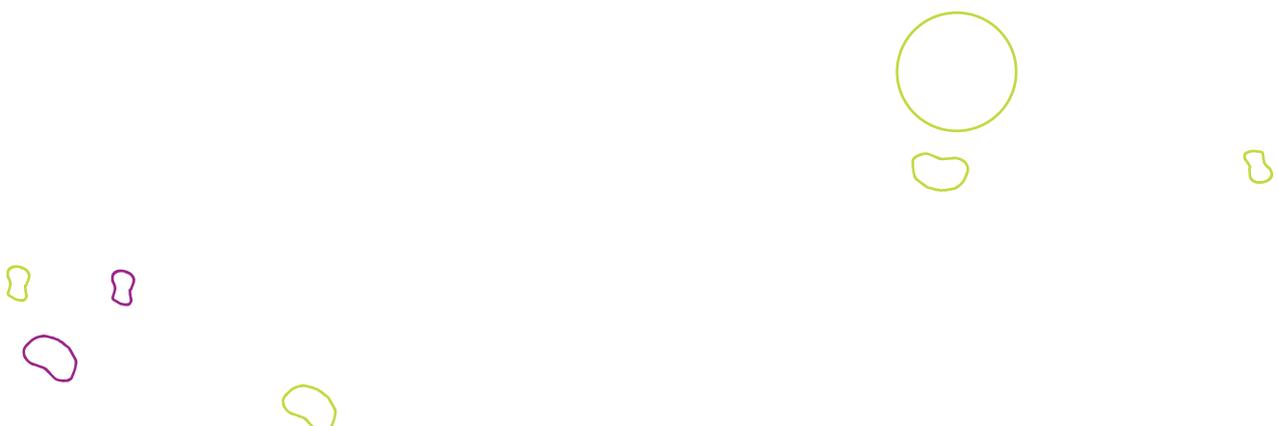
👤 Wendy Graham – NSW Office of Emergency Management

Councils are the lynchpin in local communities; when a disaster happens they know how the impacts will be felt and they know their community's concerns and priorities. Respecting and harnessing this knowledge are fundamental to successful recovery. The NSW Office of Emergency Management Recovery Coordination Team deploys to disaster affected areas, working alongside the local council and community, providing support and guidance to the recovery effort. This partnership is successful when it is based on mutual trust and respect and an honouring of local leadership and knowledge. Local council brings knowledge and expertise in community while the State Recovery Team brings its knowledge and expertise in recovery.

Facilitated by Anne Leadbeater OAM, this panel session brings together key players from the Tathra and district bush fire recovery: Bega Valley Shire Council General Manager Leanne Barnes, Recovery Coordinator Euan Ferguson and NSW Deputy State Recovery Controller Wendy Graham. They will be joined by Latrobe Health Assembly member Ange Gordon and Victorian Department of Health and

Human Services Emergency Management Branch Director Andrea Spiteri to consider the shared endeavour of community recovery after disaster. The panel will discuss how local and state government are working respectfully and collaboratively together to drive effective recovery in disaster affected communities, drawing upon the successes and challenges experienced in the Tathra and district recovery, along with a group question time facilitated by Anne Leadbeater. The panel will discuss the following:

- > What examples of connection between diverse actors are leading the way?
- > Which resilience initiatives show the power of respect and trust with diverse communities?
- > What empowers people to act on disaster resilience? What disempowers them?
- > How can we harness the wisdom of lived experience to prepare for the future?



— **Andrea Spiteri** has gained extensive emergency management knowledge, experience and networks through significant emergencies such as the 2008 Cranbourne methane gas incident, 2009 Black Saturday bushfires, 2010–2011 Victorian floods, 2013 Aberfeldy fires and the 2014 Hazelwood Mine fire. Andrea has a degree in Applied Science (Environmental Health) and previously worked in local and state government public health roles. She held executive roles as the Area Director Inner Gippsland and Director Emergency Management in South Division. Andrea is passionate about recognising and strengthening the capacity of communities and further enhancing the capability of the emergency management, health and human services sectors.

— **Ange Gordon** has been involved in recovery as a community representative since Black Saturday. She became chair of the Traralgon South and District Community Recovery Committee and was the Gippsland representative on the Community Advisory Committee, responsible for the distribution of the VBAF funds for community recovery. A natural progression from the community recovery process was Ange's involvement in the Traralgon South and District Association as President. She is also a community and board member of the Latrobe Health Assembly which was formed after the 2014 Hazelwood mine fires. A passionate resident of the Latrobe Valley, Ange highly values the working relationships between community and government.

— **Anne Leadbeater** is the Director of Leadbeater Group Pty Ltd, specialising in disaster recovery and community resilience. Her background is in emergency management, community development and adult education through the neighbourhood house sector and local and state government. Anne has worked with communities recovering from drought, fire, flood and cyclone in Victoria, NSW, South Australia and Queensland. In 2014 she led an international team to evaluate the Christchurch Earthquake Appeal for New Zealand Red Cross. Last year she completed a review of the Community Recovery Handbook for AIDR. Anne lives in Kinglake, Victoria and was awarded a Medal of the Order of Australia for her work in the aftermath of the 2009 Black Saturday bushfires.

— **Euan Ferguson** is a forester and fire and emergency manager with over 40 years' experience. Recent executive roles include acting as the Recovery Coordinator for the 2018 Tathra (NSW) bushfire, Recovery Coordinator for the 2017 Northern Rivers (NSW) floods and Special Inquirer into the 2016 Waroona (WA) bushfire. Before his retirement, Euan was the Chief Officer of Country Fire Authority from 2010–2015 and prior to that, Chief Officer and CEO of the SA Country Fire Service from 2001–2010. Euan is currently the Principal Consultant and Director of Euan Ferguson Pty Ltd.

— **Leanne Barnes** has been General Manager at Bega Valley Shire Council since January 2014. At the time of her appointment she was challenged by the council to drive a cultural change in the organisation and the team is in the early stages of becoming more proactive, flexible, courageous and committed to engagement. In 2009, Leanne was awarded the NSW Ministers' Award for Women in Local Government in the regional/rural staff category. Previously, Leanne held leadership roles with Planning NSW, the Victorian Country Fire Authority, local government in Victoria, the Victorian Ministry for the Arts and TAFE. Leanne also led the international and Australian campaign for the inclusion of women's water polo onto the Olympic Games program. As a result of her dedication to this sport she was awarded an Order of Australia Medal (OAM) as part of the Queen's Birthday Honours List in 2019.

— **Wendy Graham** is the Director of Resilience and Recovery in the NSW Office of Emergency Management. She has provided strategic leadership and cross government recovery coordination for 14 years, including the 2018 Tathra bushfire, the 2017 Northern Rivers flooding, 2017 western NSW fires, 2014 Lindt Cafe siege, 2013 Blue Mountains bushfires and the 2007 Hunter/Newcastle 'Pasha Bulka' storms. Wendy established the NSW Community Resilience Innovation Program to resource local grass roots community disaster resilience initiatives and Get Ready NSW, an all-hazards approach to community preparedness. A Winston Churchill Fellow, her international recovery and resilience research continues to inform her passion working with disaster affected communities.

## Taking preparedness action to scale

🕒 4:30pm | Wednesday 28 August

👤 Jacqui Pringle – Australian Red Cross

We all know that getting someone to think about, place value in and then take action to prepare themselves for an outcome that is often not immediate or guaranteed, is hard. How about getting three million people across Australia to think about, place value in and then take action to prepare themselves for an emergency, within a five-year timeframe?

That's the challenge that has faced Red Cross since 2015 when an organisational strategy reset delivered a new outcome to its domestic emergency services program: three million Australians are equipped to prepare for and recover from a disaster by 2020.

Over the past four years the organisation has reviewed its existing disaster preparedness activities and has collaborated internally and externally to explore alternative activities, tools, processes and outcomes in order to better understand what works and what doesn't work in terms of scaling preparedness action. We've experimented with different types of technology and ways of working by

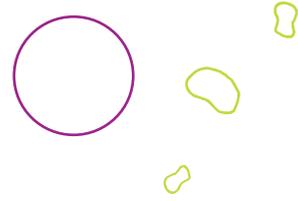
applying agile and human centred design principles. We've learned:

- > We need to understand humans – their behaviours, attitudes and beliefs.
- > We need to understand what motivates people to take sustained action – the moments that matter to them. And that these will be very different depending upon the person because context is everything.
- > We need to work differently and better develop our capacity to rapidly experiment and test hypotheses and gather evidence to help us define where we go next.
- > The importance of partnership and collaboration.

But mostly we've learned that it's complicated. We will outline the journey that Red Cross has gone on to move towards a different way of conceptualising and engaging with communities at risk.



— **Jacqui Pringle** manages the national strategy and influence team at Australian Red Cross, leading the development of Red Cross's domestic emergency services program strategy and planning, the coordination and implementation of activities aligned to major national emergency services partnerships, program and product design and development, and advocacy activities. Jacqui has worked both domestically and internationally with Australian Red Cross for the past ten years. Jacqui has also held a number of roles in both communications and media in the not-for-profit sector, local and federal government, and spent a year working with a national aid and development organisation in Sri Lanka following the 2004 Indian Ocean earthquake and tsunami.



## Refuge 2019: Displacement

🕒 5:00 pm | Wednesday 28 August

👤 Emily Sexton – Arts House

👤 Claire Coleman – Writer and poet

Arts House is an advocate for the role artists play in imagining new futures for our city, and where civic responsibility and the arts collide. These questions permeate our program and are examined closely in REFUGE: a five-year project focused on community preparedness for climate change disasters.

Refuge sees artists, elders, emergency services, academics and scientists participate in ongoing research and collaboration. The result is two weekends of new art, talks, workshops, dinners and parties that share the result of this research and offer a new perspective. Crucially, these experiences are co-designed by people who might not normally collaborate in a crisis. To this end, Refuge's strength is found in a broad set of partnerships including Emergency Management Victoria, State Emergency Services, Red Cross, Resilient Melbourne, University of Melbourne, North Melbourne Language and Learning, and others.

The fourth year of Refuge leaps into the foreseeable future to consider displacement of peoples from across our region prompted by climate change crisis, and to address our own histories of displacement. How do we care for the newly vulnerable arriving on our shores? How can we take the lead from Traditional Owners and First Nations people when imagining new approaches? What can civic spaces like the Arts House offer? When resources are limited, how do we share? Refuge 2019 creates space for a multitude of voices and proposes new ways to embed equity, access, dignity and justice in our response to catastrophe through a creative approach.

2020 is the final year of Refuge. It is the culmination of five years of research into community preparedness for climate change disasters. The Refuge model – research, art, community and action – will be shared through an international conference, publication and a retrospective of the past four years of artist's works, alongside new commissions



— **Emily Sexton** is Artistic Director of Arts House, Melbourne's centre for contemporary performance. Her previous roles include Head of Programming for the Wheeler Centre for Books, Writing and Ideas (2014–17), Artistic Director of Next Wave (2010–14) and Creative Producer of Melbourne Fringe (2008–10). Emily was awarded a Sidney Myer Creative Fellowship in 2014 and is alumni of the Australia Council's Leadership Program. Across Emily's curatorial work is an abiding interest in international exchange, reciprocity and collaboration. She has long maintained a commitment to the empowerment and programming of First Nations artists, which is reflected in much of her proudest curatorial work.



— **Claire Coleman** is a Wirlomin Noongar woman whose ancestral country is in the south coast of Western Australia. Her debut novel *Terra Nullius*, published in Australia and the USA, written on a second-hand iPad in a caravan, has won the Norma K. Hemming Award and a black&write fellowship and was Shortlisted for the Stella Prize and an Aurealis Award. She has written essay, short fiction, reportage, opinion, criticism and poetry for publication on multiple national and international platforms and is a popular speaker and storyteller. *The Old Lie* is her second novel.



## Arts and culture – sustaining people and place in a changing world

🕒 5:00pm | Wednesday 28 August

👤 Scotia Monkivitch – The Creative Recovery Network

Life is full of surprises, twists and turns that trip us up or enable growth and new opportunity. Our response to these challenges, as individuals and communities, is as varied as the context in which they occur. And you can be sure that the context is complex and forever changing. The challenge of knowing and growing resilience is a vital task of future thinking.

Since the earliest times of recorded history there is evidence of the power of sharing stories through word, music, image and dance. Through story we have formed emotional and political connections, shared experiences, warned of danger and shared the management of interconnected social-ecological systems.

The arts support us to share the unspeakable, process our experiences and plan for the future. Creativity finds solutions to what is seen to be impossible and opens new perspectives in the face of new challenges.

The Creative Recovery Network works to harness the creative thinking and skills of artists and the arts sector. The arts bring adaptive skills, diverse experience and unlimited potential for influencing the way we work with and in preparedness, response and recovery. Supporting the arts means sharing and celebrating individual and collective wisdom, beliefs and values, and healing through connectedness and understanding. We see pursuing true participation and collaboration at large as the only path to shared and sustainable outcomes.

Through our network we work together to create and achieve locally owned visions and goals, putting local voices in the lead, building on local strengths and collaborating across sectors. This relationship focus is intentional and adaptable and works to achieve systemic change focused on self-determination and resilience building.



— **Scotia Monkivitch** has a broad range of professional experiences in the community arts and cultural development sector, which have taken her throughout Australia and internationally. She has diverse experience in training, mentoring, strategic planning, project management, research and facilitation of community cultural development programs and strategies, specialising in working with people experiencing disability and disadvantage, mental health, creative aging and rural and remote communities. Scotia is committed to artistic and executive collaborations which privilege the contributors to develop their vision, art, audience and the cultural and social relevance of their work – creating art and experiences that change the way people see their own and others' lives.



## 'We want to show people what kids can do': a participatory student-led evaluation of the Strathewen-Arthurs Creek Bushfire Education Partnership

🕒 11:10 am | Thursday 29 August

👤 Brody, Lachlan, Liam, Rory, Scarlett – Strathewen Primary School Grade 6 students

On February 7th 2009, a major bushfire disaster devastated the small rural town of Strathewen. The local primary school, the old fire station, the community hall, and most of the houses in the area were destroyed. Amongst the small population of 200 people, 27 lives were lost. Ten years on, the school has been rebuilt and through a community-based partnership with the Arthurs Creek-Strathewen CFA, the Grade 5 and 6 students have been participating in an award winning place-based bushfire education program.

Through this program, now in its fourth year of delivery, students build their knowledge and skills for assessing local bushfire risks and investigate the actions that people can take to mitigate, prepare for and respond to bushfire emergencies. They also apply their knowledge and skills to student-led creative arts projects that centre on the production and dissemination of locally relevant bushfire education materials. In 2017, RMIT's Centre for Urban

Research conducted a summative evaluation of the program. The evaluation found that the program is a highly effective mechanism for increasing children's genuine participation in bushfire risk reduction. In 2018, recognising the importance of ongoing evaluation for strategic decision making and continuous improvement, the school community supported the students to undertake their own multi-stakeholder evaluation of the program. The students developed the research questions, co-designed the research instruments, collected the data and analysed the results.

This student-led approach to program evaluation represents a bold step forward in child-centred bushfire risk reduction and the students are eager to share their findings with a wide audience of researchers and practitioners. In the words of the students: 'We want to show people what kids can do. Sharing our research at this conference is a once in a lifetime opportunity'.

— **Brody** is in grade 6. His hobbies are soccer, rock climbing, karate and video games. He goes to Strathewen Primary School. His favourite part of the Bushfire Education Partnership has been learning about the scientific instruments and how to use them and going down to Anglesea to learn about that area.

— **Lachlan** lives in Kinglake West, but he goes to school in Strathewen. He is in grade 6 and enjoys playing sport and playing games. He thinks the most important thing about the Bushfire Education Partnership is that it's giving people information about what to do if a fire came through and how to prepare for the fire season. His favourite thing about the project has been learning about filming and using stop motion cameras.

— **Liam** goes to Strathewen Primary School and is in grade 6. He enjoys playing with nerf guns and going on the trampoline with his brother. Liam thinks the most interesting part of the Bushfire Education Partnership is going to Anglesea and finding out what their fire plans are for the town.

— **Rory** lives in Strathewen and is in grade 6. He enjoys eating exotic food and spending time with his family. He has really enjoyed learning how to use the instruments that help calculate the Fire Danger Rating for the day. For Rory, the most important thing about the partnership is that it's letting people know how to be aware and be prepared.

— **Scarlett** goes to Strathewen Primary School and is in grade 6. She enjoys calisthenics and playing with her pets. She thinks the most important part of the Bushfire Education Partnership is learning how to use all the instruments, such as the whirling hygrometer and the fine fuels moisture meter. She also thinks that doing this program is a once in a lifetime experience.

## Empowering disability-inclusive disaster risk reduction through cross-sector leadership

🕒 11:40am | Thursday 29 August

👤 Dr Michelle Villeneuve – University of Sydney

👤 Mandy Moore – NSW Office of Emergency Management

People with disabilities (PWD) are excluded from commonly used community engagement methods designed to increase individual self-reliance in disaster. This perpetuates inequity and increases vulnerability because their support needs in emergency situations are not understood. In Australia, vulnerability is further increased because it is not clear whose responsibility it is to address the unique needs of PWD in disasters.

This presentation shares the process and outcomes of a five-year cross-sector collaborative partnership in NSW that combined practice wisdom and research evidence from the emergency services, community health and disability sectors. Our collaboration targeted inclusive community engagement to increase the resilience of PWD to disaster.

Disability-inclusive disaster risk reduction (DIDRR) depends on effective cross-sector collaboration between emergency managers and community services personnel to remove barriers that stop PWD engaging with DRR activities through

principles of accessibility, participation, collaboration and non-discrimination. Together, we have expanded networks of connections that have enabled us to:

- > co-design policy guidelines and practice tools
- > develop community capacity for DIDRR.

Our work demonstrates that PWD and local community health and disability personnel that support them are ready and willing to be involved in DIRR. We will discuss both facilitators and challenges to enabling DIDRR through cross-sector leadership.

Strengths-based tools and processes contribute to the development of legitimate roles for community providers who have not traditionally been included in disaster risk management. Tools that enable PWD to self-assess their functional capabilities and support needs in emergencies empower self-reliance for disaster resilience.



— **Dr Michelle Villeneuve** is Research Lead, Disability-Inclusive Community Development at the Centre for Disability Research and Policy at The University of Sydney. Michelle's international program of research, Collaborating 4 Inclusion, addresses inclusive capacity development to impact policy and overcome inequities that people with disability experience. For over 20 years, Michelle has worked in regions of conflict and natural hazard disaster to develop community-led programs and services and re-build opportunities for people with disability. Michelle leads participatory action research on DIDRR in Australia, including the PREPARE NSW project. She was also chief investigator on the first DFAT funded disability inclusive disaster risk reduction research and development project in Indonesia.



— **Mandy Moore** has over 12 years' experience working in the emergency management sector in disaster welfare services, community preparedness and recovery. Her role at the Office of Emergency Management includes the Get Ready NSW program, the Community Resilience Innovation Program and the Community Engagement Sub-Committee of the State Emergency Management Committee. Mandy's career has spanned management roles in public and social policy areas in State and local government, as well as community service and volunteer peak organisations. She has managed programs in crime prevention, health promotion, homelessness and volunteerism.

## Return of the Firestick

🕒 12:10pm | Thursday 29 August

👤 Uncle David Wandin – Wurundjeri Elder

Australian scientific earth core sampling suggests that the mega fire ceased around 8,000 years ago, signifying that fire lore, customs and practices had established a balance between man, fire, flora and fauna.

Using ‘the right fire’ Aboriginals maintained the balance of Country and as such enabled themselves and all living things to survive and thrive. More than 200 years ago that balance was interrupted. Aboriginal fire lore was broken, fire practices were ceased, and the landscape changed due to vegetation clearance and uncontrolled hot bushfires.

Unfortunately, Aboriginal fire lore is still being broken. Our Country is sick. Contemporary fire and land management practices are compounding this issue, with indications showing increasing larger and more frequent devastating and costly mega fires the future trend for Australia.

Current fire and land management practices are continuing to impact the sacred canopy and dry out the environment. With climate change, the need for healthy canopy and

understory will be essential to assist the environment to remain cool and resilient with increasing temperatures. Aboriginals have dealt with climate change before and ensuring fire lore and practices are reinstated will provide the needed protection and management to allow the environment to be prepared and protected.

The Return of the Firestick Project was initiated in 2015. What started as a piece of research has led to Victoria linking with Indigenous Fire Practitioners from around Australia, the establishment of a national workshop and the formation of a national body to support Indigenous communities around Australia to strengthen this knowledge and the application on Country.

The aim of the project is to reinstate the ancient cultural knowledge of the Firestick and build the capability and capacity of Indigenous communities to lead the education and training of traditional fire with land management agencies, landholders and the broader community.



— **Uncle David Wandin** is Wurundjeri Corporations Manager of Cultural Practices (Fire and Water). Prior to this role, Uncle Dave was instrumental in the implementation and establishment of the Corporation’s Narrap Team – a team of cultural land managers who provide commercial services for different authorities and businesses with land and water management responsibilities. Uncle Dave is a recognised leader in both the promotion and execution of cultural burns in Victoria and is the main protagonist in a publication titled “Sshhhh the Parent Trees are Talking”, a publication that resulted in Dixon’s Creek Primary School and Uncle Dave taking home the Resilient Australia National School Award for its Wurundjeri-led fire program in 2018.



## On heatwave risk communication to the public: new evidence informing message tailoring and audience segmentation

🕒 1:50 pm | Thursday 29 August

👤 Dr Scott Hanson-Easey – University of Adelaide

Natural hazards risk communication campaigns cannot be ‘all things to all people’. Conventionally, age (very young and older people) and pre-existing health conditions are employed as key vulnerability factors upon which messages are tailored and target audiences segmented.

Arguably, these segmentation criteria are too blunt and are at risk of neglecting acutely vulnerable individuals and households who struggle with multiple, interlaced social vulnerabilities, including: poor quality housing, social isolation, living in ‘hot spot’ suburbs (urban heat islands caused by lack of vegetation), low socio-economic status, and health and mental health problems.

Our research findings suggest that greater attention should be paid to the tailoring of heatwave messages consistent with the ‘lived experience’, values and beliefs of vulnerable communities, which will improve the salience and persuasiveness of messages. Moreover, findings suggest that communicated heatwave information was commonly perceived as ‘redundant’ (superfluous and ‘common sense’ information).

Carefully tailored messages bearing contextualised and salient adaptation strategies may overcome information redundancy, empowering vulnerable individuals and households to enhance their resilience to heatwaves.



— **Dr Scott Hanson-Easey** has a research interest in how natural risk communication operates and how it could better prepare lay publics for disasters and emergencies and better address psychological, cultural, social, material, and discursive facets alive in our communities. Using a community-based participatory research to broker engagement and understanding between communities and government emergency management agencies, Scott facilitates the co-development of risk messages. He has worked with the Country Fire Authority (CFA) and the Karen community in Victoria to develop a film on fire restrictions. Scott has a formal background in social psychology and joined the School of Public Health in 2012 to manage a project on public understanding of climate change risk in South Australia. His earlier PhD research focused on the discursive and rhetorical aspects of racism as it is produced on talkback radio and in political discourse.



## The lived experience of four disasters – insights into community urban resilience experiences

🕒 2:20pm | Thursday 29 August

👤 Kristin Gabriel – Resilient Sydney

There is currently little information on how communities experience disasters beyond the costs of immediate insurance claims. This means the long term psychological, social and financial impacts borne by individuals and communities are unquantified and invisible. Research undertaken by Resilient Sydney and the Sydney Environment Institute sought to rectify this. Our research outcomes address the themes of connection and wisdom within the 2019 Australian Disaster Resilience Conference.

The Insights into Community Urban Resilience Experiences research project examined community resilience to shock events in Metropolitan Sydney. The project highlighted that the lived experiences of residents and service providers to shock events is largely absent from resilience research, policy and practice. The project focused on how these experiences can inform initiatives that minimise household and neighbourhood disruption, trauma and suffering. It made recommendations for policy, program, and resourcing interventions to efficiently and effectively limit the impacts of future shock events and reduce human suffering.

This study used focus groups and the System Effects methodology to identify the impacts, barriers and enablers experienced by residents and emergency and non-emergency service providers in relation to 2013 Blue Mountains bushfires, the 2016 east coast low in the Northern Beaches, the 2016/17 heatwave in Penrith, and the 2014 Martin Place siege.

Our findings support calls for policy development that acknowledges the wisdom and lived experiences of a wide range of stakeholders via community engagement. It identifies the System Effects methodology as a tool capable of accounting for the variability of such accounts in a way that translates community wisdom into meaningful recommendations for decision makers.

Overall, this research found that improving resident and service provider experiences of shock events requires greater attention to the emotional and social aspects of resilience. Our recommendations include interventions to focus on increasing connections between service providers and communities as fundamental to ensuring communities survive and recover well from disaster events.



— **Kristin Gabriel** is the Deputy Chief Resilience Officer for metropolitan Sydney, hosted by the City of Sydney Council as part of the 100 Resilient Cities Network. Kristin developed and implemented the metropolitan-wide community research program to develop the Resilient Sydney Strategy. Sydneysiders were involved in innovative, experiential engagement methodologies to prioritise actions addressing community risks and opportunities for a stronger, safer and more connected city. Kristin is a passionate advocate for the role of the community voice in decision making. She has over 15 years of experience of robust research design in stakeholder engagement in local government, including the use of deliberative democracy processes exploring contentious city issues.



## The future is now for the inclusion of women in emergency management planning

🕒 2:50pm | Thursday 29 August

👤 Mary Farrow – Emerald Community House

The challenges for women in their everyday lives pose a threat to their wellbeing in disasters, coupled with domestic violence and financial disadvantage. Negative outcomes are compounded for women and those in their care when they experience physical, mental and emotional violence during and after disasters and are displaced from their homes. But the application of gender equity, empowerment and inclusion in planning, relief, response, recovery and resilience roles has the potential to improve the broader wellbeing outcomes for women, their children and their families.

Traditional roles and responsibilities present obstacles for women in participating in decision making, skills development or gaining access to resources. Yet, women manage risks every day and connect through strong, respected social networks. So why is there a lack of women involved in emergency planning?

Women who work in the community sector are key interfaces for successful emergency management.

The community at large can benefit from the wisdom and inclusion of local women as active decision makers on emergency management planning committees. Community development practitioners strengthen the community to absorb stresses and raise collective resilience overall to better manage adverse events in the short and long term according to the Australian Disaster Resilience Community Recovery Handbook (AIDR 2018). A majority of community caring roles are performed by women as employees and volunteers. Their inclusion and input have the power to improve survival outcomes and deliver on the goals of emergency management where they live and work.

As the director of the Centre of Resilience at Emerald Community House, Mary Farrow has used community development principles to empower women who live in high risk places. This presentation will expose the obstacles to equitable inclusion and identify strategies to gain a seat at the planning table.



— **Mary Farrow** is the Manager of Emerald Community House (ECH) Inc., Director of the Centre of Resilience and editor of the Emerald Messenger. ECH's strong foundation of community development provides the basis for ECH to help people consider the risks they face, especially from bushfires and storm impact. ECH's approach to building community resilience to disasters is to integrate preparedness and capacity strengthening into its numerous community programs, enterprises, markets, festivals and services. Under Mary's management, ECH has won 5 Fire Awareness Awards and a Resilient Australia Award. ECH's approach has been recognised in Monash University's Victorian Community-based Resilience Building Case Studies and as a resilience exemplar in the Strategies for Supporting Community Resilience, Multinational Resilience Policy Group, Swedish Defence University, Stockholm, Sweden and in Disasters and Public Health: Planning and Response by Bruce W. Clements, Julie Casani, Texas, USA.

## A changing world, 10 years on from Black Saturday

🕒 3:30pm | Thursday 29 August

- 👤 Andrew Stark – SA Country Fire Service
- 👤 Anne Leadbeater – Leadbeater Group
- 👤 Dawn Hartog – Forest Fire Management Victoria
- 👤 Deb Martindale – SentientCo
- 👤 John Richardson – Australian Red Cross
- 👤 Steve Warrington – Country Fire Authority

*'I don't think it mattered who you were or where you were. Right around the Country, we all felt that event in the pit of our stomachs.'*

A decade ago, Victoria's 2009 Black Saturday bushfires made their indelible mark in Australia's story. The events of that time, including the subsequent Royal Commission, have had national impact. A decade on, we take some time in this session to reflect. How have these events changed our work and our sector? And what personal lessons and insights have been infused in today's leaders?

This could be a discussion to recap the tangible actions: implementation of recommendations, new national

strategies, new policy, new research, new technology, new investment, new ways of working with communities. It is however, important that we also offer a deeper reflection on how we have changed as a sector because of the events of 2009, and how difficult some of that change has been so far. How we as leaders, professionals, and a broad community of people dedicated to seeing safe and resilient communities have been impacted.

Our panel will share different perspectives on how the events of 2009 have served as a catalyst for change, personally and professionally.

— **Andrew Stark** has 30 years' experience in Emergency Management, with a focus on supporting emergency service volunteers to be ready and able to respond to the needs of the community and helping the community prepare for emergencies and disasters. Andrew has gained multi-jurisdictional experience by holding positions as a NSW Rural Fire Service Superintendent, ACT Emergency Services Agency Chief Officer and South Australian Country Fire Service Deputy Chief Officer.

— **Anne Leadbeater** is the Director of Leadbeater Group Pty Ltd, specialising in disaster recovery and community resilience. Her background is in emergency management, community development and adult education through the neighbourhood house sector and local and state government. Anne has worked with communities recovering from drought, fire, flood and cyclone in Victoria, NSW, South Australia and Queensland. In 2014 she led an international team to evaluate the Christchurch Earthquake Appeal for New Zealand Red Cross. Last year she completed a review of the Community Recovery Handbook for AIDR. Anne lives in Kinglake, Victoria and was awarded a Medal of the Order of Australia for her work in the aftermath of the 2009 Black Saturday bushfires.

— **Dawn Hartog** is originally from the high fire risk state of California, USA, and now holds the position of Senior Adviser to the Chief Fire Officer and two Deputy Chief Fire Officers in the Forest and Fire Operations Division at Forest Fire Management Victoria (FFMV). Dawn has long history in public safety and emergency awareness, hosting community and school education programs for both the Royal Life Saving Society – Victorian Branch and the Country Fire Authority. More recently, Dawn held a 12-month secondment as Manager, Emergency Management Community Information at EMV and is an active CFA volunteer firefighter.

— **Deb Martindale** brings her background of executive and advisory roles in emergency management and public safety, and a range of specialist consulting and facilitation services across diverse areas including child and family services, the arts and health sectors. She has public service and management consulting experience with public value and not-for-profit organisations, and has a particular interest in working with organisation and inter-organisation dynamics. Deb combines her understanding of emergency management agencies through roles at Victoria Police and Country Fire Authority with her more recent and extensive consultancy experience.

— **John Richardson** is the National Resilience Adviser for Australian Red Cross. He is also an Honorary Fellow of the University of Melbourne. He has extensive experience in recovery in government and NGO settings, with individual, local, state, national and international levels. He has also worked closely with disaster affected individuals and communities

— **Steve Warrington** began his firefighting journey as a volunteer in the Chelsea Fire Brigade in 1978, Steve has risen up the ranks of the Country Fire Authority (CFA) to become Chief Officer. With four decades of fire and emergency service experience, Steve has contributed in an operational, organisational and executive capacity in his previous CFA roles as Operations Manager (District 8) Community Safety Officer and Deputy Chief Officer. Steve was awarded the Australian Fire Service Medal in 2017.



## Posters and voting

### AIDR Knowledge Centre poster voting

Vote for your favourite poster in the AIDR Knowledge Centre. Write down the number of the poster you like best using the voting pads provided and place in the barrel. Poster winners are announced at the closing ceremony.

Voting closes at the conclusion of lunch on Thursday.

### 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)

## Poster list

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100	Winter is coming – The urgent and collective challenge to think and behave in new ways	M. Moreton
101	(Re)imagining the boundary: Collaboration for the new era	H. Keen-Dyer, A. Short, W. Madsen, B. Harreveld
102	Building extreme weather resilience with the homeless community	A. Pedler
103	The bushfire centre of excellence for Western Australia – Designed to drive cultural change	J. Tillman, L. Manfredi, J. Calder
104	A multiple-lens perspective on critical disaster strands in the Asia-Pacific	I. Ahmed
105	The Australian Fire Danger Rating System	G. Esnouf, S. Matthews, F. Dunstan

NO.	TITLE	AUTHORED BY
106	Recovery engagement: The Hotspots Fire Project experience	J. Cramp
107	Advancing emergency preparedness for people with disabilities and chronic health conditions	M. Villeneuve
108	Applying an existing top-down community resilience evaluation framework to Australian communities	N. Mills, A. Abbasi, D. Essam
109	Using Design Thinking: We can evolve and improve – The next generation heavy pumper	D. Wilton
110	Are you prepared for an emergency? Multi-agency emergency preparedness engagement tools designed with the CALD community in mind	F. Fletcher, A. Guegan, S. Walker
111	Empowering local stakeholders in coastal flood risk management in England	S. van der Plank, supervised by: S. Brown, R. J. Nicholls, E. Tompkins, J. Davey
112	Improving research use in Fire and Emergency New Zealand	Z. Mounsey
113	Enhanced bushfire risk planning	F. Roberts, E. Melero-Blanca, R. McKenzie
114	Communities at the core of urban planning – Do they lead or are they misled?	N. Rodrigo, Prof S. Wilkinson
115	Community based bushfire management – A different way of working with community	F. Macken
116	DanceWize: A peer-based harm reduction service at music festivals to avoid escalating incidents	S. Tzanetis
117	Delivering disaster resilience education to school children via virtual excursions	G. Strugnell, R. Birch, M. Laird, B. Matthews
118	Using expert opinion to develop a quantitative bush fire risk assessment for agricultural assets	M. O'Halloran, S. Bilous, J. Wells, T. Penman
119	Diversity more than the eye can see – Creating inclusive workplace cultures	C. Young, S. O'Malley, J. Taylor
120	Effect of fuel fractional dimension on flame spread rate in bushfires	V. Novozhilov
121	Tidal inundation: An emerging coastal hazard	B Hague, D. Jones, B. Murphy, A. Taylor
122	Emergency management capability and capacity in Victoria – Understanding preparedness and future opportunities	M. Milles, A. Harry
123	Centralising environmental resilience in disaster risk reduction agencies using the Sustainable Development Goals	H. Chappelow
124	Veterans and volunteering	M. Dobson
125	Fire weather and prototype fire danger ratings associated with the Gell River fire, Tasmania	P. Fox-Hughes, S. Matthews, C. Collins, S. Grootemaat, J. Hollis, A. Holmes, B. Kenny, J. Runcie, S. Sauvage
126	Management of NSW RFS weather observation equipment	L. McCoy
127	Foliar projective cover measurement: Using non-destructive, low-cost methods	J. Palmer

NO.	TITLE	AUTHORED BY
128	Helping communities better withstand the impacts of disasters	E. Thomas
129	Vulnerability of international students in high-rise	Prof. A. March, F. Barar, R. Marino
130	From vulnerable to resilient – Emergency preparedness in changing times	A. M. Roberts
131	Hot spots: an initiative of Lord Mayor’s charitable foundation	H. McCallum, H. Lawson, M. Chiuchiarelli
132	Introducing Australia’s first real-time environmental sensor network	L. King
133	Lightning fires in NSW bushland	S. Topp
134	LMK: Firefighters using technology to fight suicide, depression, PTSD and substance abuse	S. D’arcy
135	Mesoscale meteorological phenomena and erratic fire behaviour as seen in a high-resolution coupled fire-weather modelling study of Black Saturday	C. Engel, T. Lane
136	MFB strategic location plan: Spatial analysis	R. Purcell, A. Griffiths, S. Rollings
137	Mobility and cloud technology bring new capabilities to firefighting and overall incident management – ENDZONE	J. Henderson
138	Multiweek to seasonal fire weather prediction	D.A. Jones, A. Dowdy, P.A. Gregory
139	How Nursery Bud program helped recovery after Cyclone Debbie	K. Battersby
140	Parenting since Black Saturday: The lived experience and insights for supporting families	L. Kosta, L. Harms, L. Gibbs, D. Rose
141	Progressing professional development: A Strategy for SA Country Fire Service	S. Eales, L. Naylor
142	From disaster to recovery: Rehabilitating a community and their urban creek after a catastrophic pollution event	T. Hurst, E. Manifold
143	Recovery wellbeing – Protecting the mental health and wellbeing of our people	N. Brown
144	Resilience at work – RAW: Mind coach program	J. McGarvey
145	Resilience issues confronting the local community services sector in serving the vulnerable during and post disaster recovery O. Burmeister	V. Ingham, R. Islam, J. Hicks,
146	RESPECT manager training	A. Donohoe
147	Responding to white powder incidents: Have we come full circle?	K. Grimwood, E. Swinny, D. Truscello
148	The challenge to change – Engaging with the digital era	D. Grant
149	Working with communities through high emotion	F. Li
150	Surviving the financial impacts of disaster – Towards an empowerment model	S. Ross
151	Ten Years on from the Victorian Black Saturday Bushfires public information during response, what have we learnt?	P. Middleton

NO.	TITLE	AUTHORED BY
152	The Bureau produced skilful multiweek (days 8-21) forecasts of cyclogenesis during the 2018-19 Southern Hemisphere cyclones season	J. Camp, A. Brown P. A Gregory, K. Bigelow
153	The Community Engagement Framework	K. Enbon, D. Cleland
154	The effect of climate change on CMIP5 driven forest fire danger in Australia	A. Holmes, C. Rüdiger, N. Tapper
155	The importance of revisiting past lesson-generating wildfire incidents	R. McRae
156	Neighbour Day challenge 2019 – A VICSES, CFA and Red Cross collaboration	J. Devenish, D. Cleland
157	The occurrence of PAHs and flame retardants in 15 Australian fire station air and dust	A. Banks, M. Engelsman
158	Using LiDAR-derived fuel maps in bushfire suppression	A. Leavesley, N. Cooper, B. Levine, T. Scherl, A. Van Dijk
159	To build or not build? That is the Townsville question	A. Gissing
160	Tourism development and local resilience: Self-organisation and community empowerment perspectives	L. Nogueira de Moraes, A. March
161	Transition to retirement and vocational rehabilitation A. McGarity	A. McGarity
162	Spatiotemporal variability of planned burn windows in Victoria 1972 – 2017	S. Harris, T. Duff, G. Mills, A. Chen
163	Chocolate cake & one small step: A shift for VICSES community engagement	H. Macdougall, S. Davie, K. Jewell, B. Beccari
164	Utilising catastrophe loss models to improve decision making in disaster management	A. Gissing, R. Crompton
165	Valuing research, knowledge and capacity	J. Handmer, A. Keating, K. Strahan
166	Fuel management system: A single, intuitive and flexible platform for delivering the multi-agency fuel management program in Victoria	C. Allanson
167	Volunteers making a difference – CAVFA working to represent volunteer firefighters across the country	K. Middleton
168	What constitutes evidence in a fake-news world	T. Geoghegan
169	Working with the chain gang – Making the links: Risk mitigation, Macedon Ranges, Victoria	S. Henry, M. Wyatt, G. James, K. Dunstan
170	Suppression strategy – Yellingbo Nature Conservation Reserve Case Study	M. Jones, D. Taylor
171	Standards	AFAC
172	AFDRS social science research	AFAC
173	Warnings	AFAC
174	Home Fire Sprinkler Coalition	AFAC
175	AFAC Doctrine	AFAC

NO.	TITLE	AUTHORED BY
176	Motorola Knowledge Innovation Awards	AFAC
177	Emergency Management Professionalisation Scheme	AFAC
178	National Resource Sharing Centre	AFAC
179	National Aerial Firefighting Centre	AFAC
180	Handbook Collection	AIDR
181	Professional Development	AIDR
182	Resilient Australia Awards	AIDR
183	Australian Journal of Emergency Management	AIDR
184	Australian Disaster Resilience Knowledge Hub	AIDR

# Bushfire & Natural Hazards CRC

## Poster list

NO.	TITLE	AUTHORED BY
200	Becoming bushfire resilient – The case of Victorian planning history	C. Gonzalez-Mathiesen, A. March
201	Disaster and economic resilience in small regional communities: The case of Toodyay	M. Ulubasoglu, F. Beaini
202	UNHARMED – Considering futures of risk	G. Riddell, H. van Delden, H. Maier, A. Zecchin, G.C. Dandy, R. Vanhout, S. Araya
203	Flood risk reduction in a dynamic urban context: Exploring the urban-water-resilience nexus	S. Kabir, A. March
204	Quick economics: Tools that help decision making in natural hazard mitigation	V. Florec, A. Rogers, A. Hailu, D. Pannell
205	Planning and capability requirements for catastrophic and cascading events	A. Gissing, M. Eburn
206	Volunteers and their supporters want more direct, regular access to research; shared learning networks can fill the gap – with time	B. McLennan
207	Disaster risk reduction and resilience education developing a national framework for implementation	A. Gough, B. Towers
208	Managing risk through diversity and inclusion	C. Young, R. Jones, F. MacDonald
209	Team management, decision making & organizational learning	C. Bearman, C. Owen, B. Brooks, P. Hayes, S. Curnin, H. Stuart
210	Community disaster recovery navigating uncertainty 2013 Forcett Tasmania bushfire disaster	F. Jennings
211	Impact-based forecasting in the coastal zone: East Coast lows	H. Richter, C. Arthur, D. Wilke, B. Ebert, M. Dunford, M. Wehner, J. Sexton, S. Maguire, J. Kepert, R. Hay, M. Edwards
212	The mental health of Australian career and volunteer firefighters H. Bancroft,	A. Phelps, M. O'Donnell
213	The roles of pharmacists in disaster health management	K.E. Watson, J.A. Singleton, V. Tippett, L.M. Nissen
214	Understanding the need for, availability of, and interpretation of information by the public during large scale hazard events	K. Akers
215	Application of bushfire self-evacuation archetypes	K. Strahan, J. Gilbert
216	An agency-based framework for community engagement for preparedness	K. Johnston, B. Ryan, M. Taylor
217	Emergency volunteer retention: Can a culture of inclusiveness help?	A. Luksyte, M. Gagné
218	Comprehensive school safety: A participatory approach to school bushfire emergency management planning	M. Henry

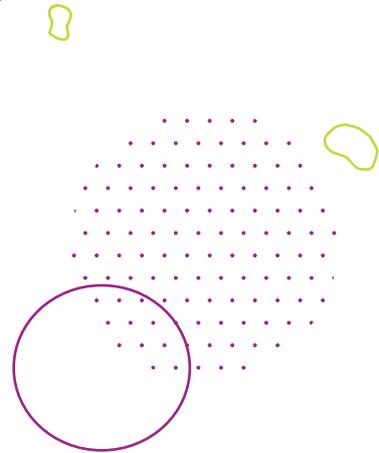
NO.	TITLE	AUTHORED BY
219	Disaster resilience education for children: A study in Bangladesh	M. Rashid, J.C. Gaillard, K.R. Ronan, Q. Alam
220	Developing a Hawkesbury-Nepean animal ready community: Utilising BNHCRC research as part of the Hawkesbury-Nepean Valley Flood Risk Management Strategy	M. Dignam, K. Moulton, T. Hinde, L. Hanlon, D. King, E. Gardiner, L. Dedovic, L. Raines, C. Smith, J. Bigelow, J. Carr, M. Taylor
221	“If it’s flooded...” Occupational exposure to floodwater – What contributes to decisions to drive through?	M. Taylor, K. Haynes, M. Ahmed, M. Tofa
222	A profile of Australia’s disaster resilience	M. Parsons, I. Reeve, J. McGregor, G. Marshall, R. Stayner, J. McNeill, P. Hastings, S. Glavac, P. Morley
223	Mitigating wind damage caused by internal pressures	M. Humphreys, J. Ginger, D. Henderson
224	Changing ourselves: Power relationships and effective knowledge transfer as the basis for community resilience development	S.A. Sutton, D. Paton, P. Buergelt, S. Sagala
225	In order to change a culture you must first understand it. Lessons for engagement from the ‘anthropologising’ of remote Aboriginal communities in north Australia.	S.A. Sutton, B. Sithole, H. Hunter-Xenie, O.C. Bulmaniya
226	Agency experts supporting bush fire disaster resilience education for Primary school students: A case study in NSW	T. Jarrett
227	Improving Leadership to Retain Volunteers in Emergency Services Organisations	V. Forner, M. Jones, Y. Berry
228	What is normal? Learning to do risk management together	W. Smith, J.K. Weir, T. Neale, M. Wouters, A. Galpin, A. Leavesley, R. Carter, S. Blair, B. Cook, O. Costello, S. Curry, M. Eccleston, R. Foley, D. Freeman, O. Gooding, T.K. McGee, D. Nugent, J. Russell-Smith, K. White, T. Wall
229	Valuing Volunteers Study	W. Calcutt
230	Using advancements in technology for better understanding of fire behaviour and decision making	A. Filkov, B. Cirulis, J. Taylor, T. Penman
231	A joint platform to manage natural disasters in remote locations	K.K. Sangha, A. Edwards, J. Russell-Smith
232	Improving flood forecast skill using remote sensing data	V. Pauwels, J. Walker, S. Grimaldi, A. Wright, Y. Li
233	Loser or winner? The story of an unknown	D. Rodriguez-Cubillo
234	Cost-Effective Retrofitting Strategy for Limited Ductile Reinforced Concrete Buildings in Australia	B. Xing, R. Alazem, E. Lumantarna, N. Lam, S. Menegon, H. Ho Tsang, J. Wilson, E. Gad
235	Understanding the flaming behavior of cladding products through numerical simulations	G.H. Yeoh, A. Chun, Y. Yuen, T. Chen
236	From hectares to tailor-made solutions to prescribed burning	H. Clarke, M. Boer, T. Penman, O. Price, B. Cirulis, R. Bradstock
237	Large wildfire suppression in practice	H. Simpson

NO.	TITLE	AUTHORED BY
238	How do tall wet eucalypt forests burn? Modelling fuels and fire behaviour in one of the world's most complicated forests	J.M. Furlaud, G.J. Williamson, L. Prior, D.MJS Bowman
239	Physics based simulations of grassfire propagation on up-sloped terrain – A parametric study	J. Innocent, D.Sutherland, N. Khan, K. Moinuddin
240	Prediction of vorticity-driven wildfire propagation in operational time frames	J. Sharples, J. Hilton
241	A fast, physically based scheme for predicting long-range spotting potential	J. Kepert, S. Schroeter, K. Tory, W. Thurston
242	A decision framework and ecological risk assessment tool to support bushfire management planning	N. Amos, J. MacHunter, S. Watson, L. Rumpff
243	Pyrocumulonimbus firepower threshold: A pyroCb prediction tool	K. Tory, J. Kepert
244	Potential of modelling firebrand load on structure in wildland urban interface	A. Wickramasinghe, N. Khan, K. Moinuddin
245	VAWS – Vulnerability and Adaptation to Wind Simulation	K. Parackal, M Wehner, H. Ryu, J. Ginger, D. Henderson, M. Edwards
246	Coupling litter and soil moisture dynamics for dead fuel moisture content forecasting	L. Zhao, M. Yebra, A.I.J.M. van Dijk, G. Cary
247	Fire weather in Tasmania and smoke plume dynamics in the 2013 Forcett – Dunalley wildfire	M.N. Ndalila, G. Williamson, P. Fox-Hughes, J. Sharples, D.M.J.S. Bowman
248	Lessons learned from coupled fire-atmosphere research and implications for operational fire modelling	M. Peace, J. Bally
249	The Australian Fire Danger Rating System	S. Matthews, S. Grootemaat, B. Kenny, J. Hollis, P. Fox-Hughes, S. Sauvage, J. Runcie, A. Holmes, N. Cummins
250	Flood Vulnerability Functions: Detailed vs generalised approach	T. Maqsood, K. Dale, M. Edwards, K. Nadimpalli
251	Modelling carbon emissions from prescribed burning using FullCAM	S. Karunaratne, M. Possell, T. Bell, D. Pepper
252	Numerical investigation into the behaviour of floodways during extreme flood events	I. Greene, W. Lokuge, K. Karunasena
253	Collapse performance of limited ductile high-strength reinforced concrete (HSRC) columns in earthquakes	S. Raza

# Venue map



The Australian Disaster Resilience Conference will be held on Level 2 of the Melbourne Convention and Exhibition Centre in room 212.



# General information

## Venue

Melbourne Convention and Exhibition Centre,  
1 Convention Centre Place, South Wharf, Victoria 3006

## Exhibition opening hours

**Tuesday, August 27:** 1:00pm to 6:00pm

**Wednesday, August 28:** 8:00am to 5:00pm

**Thursday, August 29:** 8:00am to 3:30pm

## Registration desk

The Conference Registration Desk is located in the foyer of the Melbourne 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](#).

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 [#ADRC2019](#).

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, Bushfire and Natural Hazards CRC 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

**Date:** Wednesday 28 August

**Time:** 5.30pm - 6.30pm

A networking function will be held in the foyer outside room 212 following the final presentations on day one. This year's networking function will feature the Victorian Resilient Australia Awards ceremony, hosted by Emergency Management Victoria.

## WiFi

Free WiFi is available throughout the venue using the M Connect network.

## Cloakroom

Cloakroom facilities are located at the customer service desk just inside the Melbourne Convention and Exhibition Centre entrance.

## Organisers' office

The Organisers' office is located in Room 2.1 across from the Exhibition Hall.

## 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

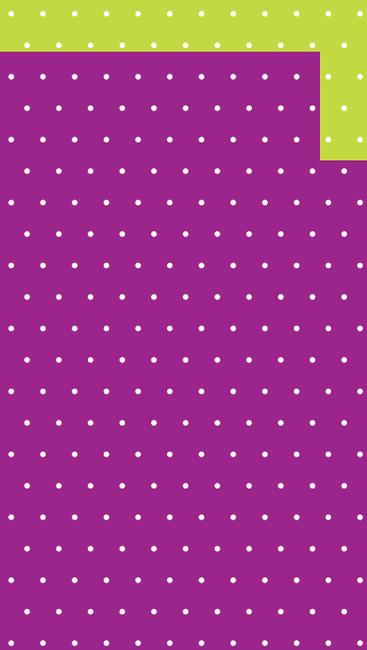
Smoking is not permitted in the venue.

### 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 and the Bushfire and Natural Hazards CRC or Hannover Fairs Australia.



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