

NATIONAL EMERGENCY

RESPONSE

Official Journal of the Australasian Institute of Emergency Services



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The website has sections for each State as well as National Areas. If you have ideas for State Division content, please contact your State Secretary. For National content, email web@aies.net.au
Please be aware that all content must go past the National Secretary prior to web publication to ensure it meets required guidelines.

NATIONAL EMERGENCY RESPONSE



Official Journal of the Australasian Institute of Emergency Services

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FRONT COVER

Photo source: Queensland Fire Officer prepares for the wrath of Tropical Cyclone Kirrily. This cyclone formed on 12 January 2024 and crossed the Queensland border north of Townsville on 25 January, dumping more than a metre of rain over the Australia Day long weekend. Cyclone Kirrily was long-lived, lasting three weeks and three days.



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NEW MEMBERS

The Australasian Institute of Emergency Services is pleased to announce the following emergency services people joined the AIES between April 2024 and June 2024.

| NAME | ORGANISATION | DIVISION |
|------------------------|--------------------------------|-----------|
| Dominic Britt | Fire Rescue | VIC |
| Ana Maria Bianca Chitu | State Emergency Service | NSW |
| Lisa Dykes | NGIS | VIC |
| Rebecca Fidele | Country Fire Authority | VIC |
| Kane Hughes | Surf Life Saving | NSW |
| Kylie Kapeller | Ambulance | TAS |
| Joanna Limpic | State Emergency Service | NSW |
| Thomas McCabe | Rural Fire Service | NSW |
| Mandira Panday | Johns Lyng Disaster Management | VIC |
| Nicole Viant | Police | SA |
| Siu Fung Wong | Volunteer Rescue Association | Hong Kong |



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Articles, photographs and short stories are sought for the *National Emergency Response Journal*. Please submit items for the next edition to editor@aies.net.au by **7 October 2024**. There is an annual award for the best article submitted by an AIES member.



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FROM THE PRESIDENT'S DESK

Christine (Chris) Miller, FAIES F.ISRM AMBCI

National President



AIES Board, Brisbane, 11 May 2024 (L-R) National Treasurer Jenny Crump FAIES, National Vice-President and President SA WA Division Rebecca Hunt MAIES, National President Chris Miller FAIES and Company Secretary Dr Marilena Salvo.



Congratulations to Queensland/NT President John Moy, National Treasurer Jenny Crump and other Queensland AIES members and supporters who made the AIES Annual General Meeting and Dinner along with the Board meeting on 11 May in Brisbane such a success.

Thanks to the Queensland Combined Emergency Services Academy (QCESA) for hosting the AIES members who were able to enjoy your catering and hospitality. Most of us attending enjoyed a site tour with John, which was a bonus. We look forward to SA/WA Division hosting the next annual meetings on 5 April 2025.

EVENTS ATTENDED BY AIES FELLOWS AND MEMBERS

On 22 May 2024, I drove from my Vincentia home to Moruya to attend a day long workshop with emergency managers and others discussing emergency recovery and preparedness. This was the second of two workshops with the previous workshop held on 20 May at Bega. Hosts and sponsors, NSW Council of Social Service represented by Megan Nicholson, Katungul Aboriginal Corporation Regional Health and Community Services represented by Peter Rutherford, Eden Community Access Centre Inc represented by Deb Richardson, and the NSW

Government Reconstruction Authority, were very welcoming along with other participants attending the Vulnerable Communities Emergency Preparedness Workshop, Eurobodalla Shire.

Many of the participants remain mindful of the Currowan fires that broke out on 26 November 2019, which continued for over 74 days after merging with other fires (and came within 8 kms of my home). Their experiences were a reminder of 'the long tail' of recovery. The 'cycle of recovery to preparedness' was an issue raised by several of the participants I met.

On 22 and 23 May 2024, many were also busy in Adelaide for Exercise Aurora bringing together around 300 government and industry representatives hosted by the Australian National Emergency Management Agency (NEMA). The scenario considered the potential for 'space weather' to wreak havoc on Australian communications and critical systems. NEMA co-hosted the event in partnership with the Bureau of Meteorology, Geoscience Australia, and the Department of Home Affairs.

Some years ago, I worked with Australia's space weather experts on their business continuity plan. They were then part of the Australian Government's Department of Industry.

They alerted me to the possible challenges of solar activity. Try running emergency services without GPS due to 'fried' satellites.

On 11 May 2024, a few days before Exercise Aurora, Starlink, the satellite arm of Elon Musk's SpaceX warned of a 'degraded service' as the Earth is battered by the biggest geomagnetic storm due to solar activity in two decades. Starlink owns around 60 percent of the roughly 7,500 satellites orbiting Earth and is a dominant player in satellite internet. Sometimes when I have facilitated exercises, I have had participant pushback complaining that the scenario was unrealistic.

The following week, I joined other lessons 'nerds' gathered in Adelaide for the Annual Lessons Management Forum hosted and sponsored by National Council for Fire and Emergency Services in Australia and New Zealand, Australian Institute of Disaster Resilience and Australian Civil-Military Centre. One of the keynote presenters, Charles White, recently retired from the role of Chief Knowledge Manager at NASA Jet Propulsion Laboratory. He is fast becoming a global expert in artificial intelligence (AI). Charles was also a volunteer tower fire spotter in his community, so is experienced in emergency services too.





Exercise Aurora Adelaide 22 May 2024. (L-R) AIES David Parsons & Shane Bolton Australia's National Emergency Management Agency (NEMA).



Observations Exercise Aurora Adelaide 22 May 2024.



Exercise Aurora Adelaide 22 May 2024. AIES Director NSW/ACT/International President David Parsons ESM FAIES.

It was great to celebrate Heather Stuart ESM accepting the 2024 AFAC/ AIDR 2024 Lessons Management Award, which recognises her many years of contributing to lessons management at the NSW State Emergency Services (SES) and sharing lessons methodology with others. This was demonstrated by South Australia Department of the Premier and Cabinet's Benjamin Hebart who presented *Empowering Emergency Response: Harnessing Microsoft 365 Power Platforms* for enhanced Lessons Management. Benjamin shared the welcome news that the SA Government is working towards 'joining up' lessons management across different agencies and departments.

Barbara Simon, Managing Director, 121connects Australia and New Zealand Pty Ltd approached me to assist in identifying speakers and panellists for two breakfast seminars on local and global case studies focused on 'Connectivity for smarter, faster emergency response, critical lifelines, cutting-edge technologies, real-time data, complete situational awareness, many thanks to Lisa Dykes and Stephen Sennett (Victorian Division), and Steve Pearce (NSW/ACT/International Division) for assisting Barbara and the AIES with your excellent presentations and panel contributions.



Charles White and AIES members attending Lessons Management Forum Adelaide, 29 May 2024 (L-R) Brett Richardson (NSW/ACT/International), Charles White (SA/WA), Coreyjay Frazer (SA/WA), National President Chris Miller, Jenny and Mike Shapland MBE (Qld/NT), Shane Bolton (SA/WA).

In Melbourne, on 28 May, Lisa Dykes MAIES spoke about her work on Geospatial Technologies and Disaster Preparedness.

Her presentation included an overview of the types of geospatial technologies used in emergency management, implementation challenges, and some personal stories of her experiences in the geospatial industry.

In Sydney, on 30 May, Steve Pearce AFSM GAICD, Chief Executive Officer, Surf Life Saving NSW (SLSNSW) spoke about 'Surf Life Saving NSW... The emergence of a new Emergency Service.'

SLSNSW is now one of Australia's largest volunteer-based emergency

services, with 78,000 members. From a traditional lifesaving organisation, SLSNSW is now a formalised emergency service, embedded in all facets of emergency management and response to multi-disciplinary emergencies, including floods, bushfires, tsunamis and remotely piloted aircraft systems (RPAS) surveillance.

At the end of June, I am scheduled to be the lead exercise facilitator for the World Bank, a tabletop simulation in the South Asia Region.

If this exercise goes ahead, on our third attempt, I look forward to sharing some of my learnings in a future edition of the NER.

Best wishes, Chris •

Post-Conference Brief:

IAWF FIRE BEHAVIOUR & FUELS 2024 CONFERENCE IN CANBERRA

By Brody Wickham MAIES CESM



Brody Wickham.

I recently had the privilege of attending the 7th Annual International Association of Wildland Firefighters (IAWF) Fire Behaviour & Fuels Conference held in Canberra from 16-18 April.

The event featured an array of presentations and keynotes that delved into various aspects of bushfire research, management and policy. Here are some of the standout sessions and keynotes that I found particularly impactful.

HIGHLIGHTS:

RYAN BUTLER (DEPARTMENT OF BIODIVERSITY, CONSERVATION AND ATTRACTION)

Butler's discussion on "Effectiveness of Broad Area Fine-Scale Burn Mosaic Application to Reduce Fuel Hazard in SW WA Forest System" highlighted strategic fuel management techniques to mitigate bushfire risks. His presentation included successful case studies and innovative approaches to prescribed burning.



DR. DAN PRONK

Dr. Pronk's keynote, 'Building Your Resilience Shield', drew from his experience as a former special operations doctor. He provided valuable insights into psychological resilience, offering strategies to maintain mental health and operational effectiveness for firefighting professionals in high-stress environments.



MELANIE WHEATLEY (ONTARIO MINISTRY OF NATURAL RESOURCES AND FORESTRY, CANADA)

Wheatley's presentation, "Evaluating Airtanker Suppression Effectiveness," offered a data-driven approach to optimising airtanker use in firefighting operations. Her research aimed at improving response times and effectiveness by analysing pre- and post-attack fire intensity data and airtanker mission outcomes.



SIMEON TELFER (SA COUNTRY FIRE SERVICE)

Telfer presented groundbreaking research on "Characterising Fuel and Fire Behaviour in Shrublands Using MLS and Thermal Drone Imagery." His findings showcased how modern technologies like drones and backpack LiDAR can enhance our understanding of fire behaviour, potentially leading to improved firefighting strategies and fuel management.



DR. LORI MOORE-MERRELL (US FIRE ADMINISTRATOR)

Dr. Moore-Merrell connected via video link to discuss the future of fire management, emphasising the integration of advanced technologies and organisational strategies within the US firefighting framework. Her presentation highlighted the importance of innovation and adaptability, using insights from the Lahaina, Maui wildfires to illustrate key points.



KEVIN TORY (BUREAU OF METEOROLOGY)

Tory introduced a new calculation in his session, "A Simple Fire-Weather Index Replicating McArthur's Forest Fire Danger Index 5", designed to address the sensitivities of the AFDRS system. His work focused on providing more accurate fire danger predictions under varying weather conditions.



SAMUEL HILLMAN (DEPARTMENT OF ENERGY, ENVIRONMENT AND CLIMATE ACTION)

Hillman presented on the development of operational universal fuel assessment guides, aiming to standardise fuel assessments across different ecosystems. His work, which incorporates 3D remote sensing, seeks to improve the accuracy and efficiency of fire risk management.



DR. LACHLAN MCGAW

Dr. McGaw's keynote focused on the critical role of the fire science community in tackling climate change challenges. He underscored the need for synergy between scientific research and practical fire management to proactively address emerging issues.

NETWORKING AND CONNECTIONS

The conference was also an excellent opportunity for networking. I had the chance to reconnect with other fire mangers and meet several key figures in the field. These interactions provided valuable insights and potential collaborations for future projects.

CONCLUSION

The insights gained from the IAWF Fire Behaviour & Fuels Conference are invaluable for advancing research and adopting innovative technologies in fire management. This event underscored the importance of continued collaboration and knowledge sharing within the firefighting community to enhance fire safety and response strategies. •

CONGRATULATIONS BOB

ROBERT MAUL OAM, LFAIES

The AIES Board, Fellows and members congratulate one of the Institute's Founders and Past President Robert (Bob) Maul on his Order of Australian Medal, which was announced on the King's Birthday, 10 June 2024.

Bob is a worthy recipient of this prestigious award for service to the community for the past 60 years through emergency response organisations.

In addition to co-founding the Australian Institute of Emergency Services in 1977, Bob has served as National President and Vice President and was General Secretary/National

Registrar from 1996-2015. Bob was recognised with AIES Life Fellow status in 1998.

Between 1990 and 2004, Bob served in various roles with the NSW Police, NSW SES (1977-1990) including Chief Staff Officer and Regional Emergency Management Officer. In 1977 he became a Justice of the Peace. Since 2007 Bob has been Director/ Treasurer of the Mosman Returned Servicemen's Club, he is a former director of WIRES NSW and Teachers Club NSW where he has been a Treasurer.

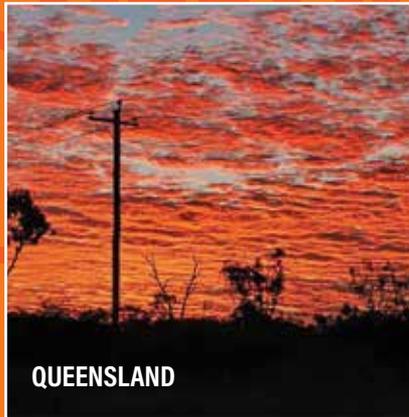
From all of us Bob, congratulations on this honour recognising a lifetime of service.



WOW DAY

22 MAY 2024

All over the country, Australian's got behind the 'something for everyone' theme as we celebrated Wear Orange Wednesday (WOW) to show our appreciation of SES volunteers. Here's a look at who, where and what happened.



QUEENSLAND

The sunshine state left it up to mother nature to splash orange across the skyline.



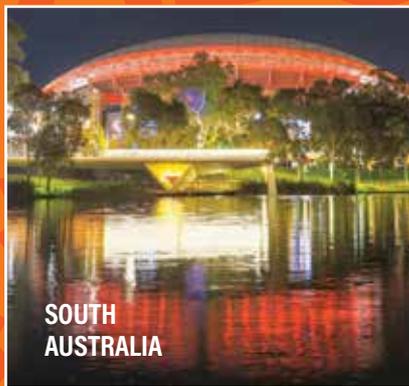
NORTHERN TERRITORY

Chief Minister of the NT Eva Lawler hosted an event at Parliament House.



NEW SOUTH WALES

SES Volunteers turned it into a party.



SOUTH AUSTRALIA

Landmarks like Adelaide Oval lit up!



VICTORIA

SES volunteers enjoyed the limelight.



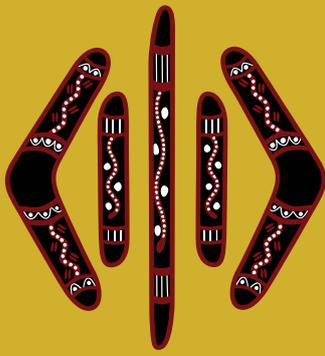
TASMANIA

The state operations team had a WOW of a morning tea.



WESTERN AUSTRALIA

Hannah Beazley MLA attended Parliament House for Budget Estimates in orange.



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Eastern Guruma (EG) is a highly regarded Australian independent First Nations Company, enriching the communities and clients it serves through growth, sustainability, and diversity. EG uses state-of-the-art technology for surveying, auditing, and compliance processes, improving and exceeding client expectations and delivering mutually beneficial stakeholder outcomes.

Eastern Guruma has been in operation for 15 years as a successful and respected First Nations owned business, providing services in construction, landscaping, facilities management, traffic management and more. EG is owned by members of the language group Muntulgura Guruma, the lands of which surround Tom Price in the Pilbara region of WA, the team has delivered services to Australia's largest mining companies, Rio Tinto, BHP, and Fortescue Metals Group.

Its facility management services alone provide cleaning and maintenance services for mine sites, Eastern Guruma employs opportunities to 80+ First Nations people across 25 different language groups. Opportunities are created through the jobs directly available, including traineeships, apprenticeships, cadetships, scholarships, and graduate program.

A 5 year concurrent contract for facilities management between Eastern Guruma and Rio Tinto fuelled jobs and growth in the Pilbara region while keeping the site's mine site facilities clean and sanitised. A full list of past and current projects can be found on Eastern Guruma's website.

Samantha Connors and Tania Stevens are the owners and directors of Eastern Guruma. Ms Stevens has been the company's owner since its foundation in 2004, Tania is an Eastern Guruma Traditional Custodian of the Muntulgura Guruma in the Pilbara of Western Australia.

Ms Connors was born and raised in Roebourne Western Australia and is a Muntulgura Guruma Member from the Tom Price area. Samantha's father was a Ngarluma man, and her mother is a Bunjima/Muntulgura Guruma woman.

A strong culture of teamwork and collaboration has led Eastern Guruma to enter partnerships and joint ventures with other First Nations groups such as Wirlu-Murra Enterprise & Karlayura Group. Karlayura Group is 100% owned by the traditional owners of the Nyiyaparli and Banyjima country, while Wirlu-Murra is also a 100% owned First Nations company.

EG partnerships with First Nations businesses have seen the growth of new business opportunities and further employment and training for First Nations people. Our joint venture with Wirlu-Murra Enterprises has led to a successful project at Solomon Mine. The Road Maintenance contract has a growing number of First Nations employees, over 50%, and has led to further business for both Eastern Guruma and Wirlu-Murra, as joint venture partners and individual businesses.

This partnership has seen Eastern Guruma become the major partner mentor, helping Wirlu-Murra to build their capability and operations and take on 50% of the Road Maintenance contract as well as grow their business.

Eastern Guruma endeavours to grow the number of First Nations people within its company through direct employment and subcontracting. Our vision is to create pathways to empowerment for First Nations people to participate in the Australian economy.

Eastern Guruma and Karlayura Group have established a joint venture that provides services across different "native title" land areas. The Eastern Guruma Native Title Agreement states the area of about 6,774 Square kilometres is located 40km north of Paraburdoo Western Australia.

Ms Stevens and Ms Connors strongly believe that the knowledge, skills, and experiences of First Nations people provide a rich learning environment for all people who contribute to improving the design and delivery of services for Eastern Guruma.

To find out more about high-quality facilities management, construction and landscaping services that enrich a vibrant and diverse community, please visit

www.easternguruma.com.au



UPCOMING EVENTS

EMERGENCY SERVICES FOUNDATION CONFERENCE

16-17 July 2024, Melbourne



Disasters have no boundaries: Navigating the increasing frequency and complexity of events
If you are attending, please visit the AIES exhibit!

The conference will explore a myriad of challenges faced by communities and responsible authorities as disaster events become more frequent and diverse.

The impacts of emergencies often do not observe clear geographical or social boundaries.

Rather, the intensity of emergencies and types of impacts vary from place to place and between communities and individuals. This also changes over time.

Further, as bushfire, flood and storm activity increasingly overlap, the lines can become

blurred between resilience building, response, recovery and reconstruction. Emergency management must be able to operate at all levels continually and often simultaneously.

For more visit esf.com.au/events/emergency-management-conference/

INTRODUCTION TO LEADERSHIP PROGRAM

The Australian Emergency Management Volunteer Forum (AEMVF) offers an online Introduction to Leadership Program for all emergency management volunteers.

The online training is full of useful learnings and tools to help you discover and grow your leadership capabilities.

The workshop covers basic leadership principles and approaches and provides take away tools to help put your skills into practice.

AN IN-PERSON PROGRAM IS ALSO AVAILABLE FOR THIS LEADERSHIP PROGRAM.

| LOCATION | PROGRAM DATES | APPLICATION DUE DATE |
|----------------|-----------------|----------------------|
| Melbourne, VIC | 16-18 August | 19 July |
| Tasmania | 20-22 September | 23 August |
| Canberra, ACT | 18-20 October | 23 September |



To apply for these workshops through AIES, contact Steve Jenkins FAIES, at Steve.Jenkins@aies.net.au.

THE JOINT CENTRE FOR DISASTER RESEARCH AT MASSEY UNIVERSITY

3-7 March 2025, Wellington, New Zealand

AIES National Director and President NSW Division David Parsons ESM FAIES will facilitate a group to attend this week of training in New Zealand and participate in a field tour of response and recovery leaders in conjunction with the week.

If you are interested in joining the AIES tour, please email David at president.nsw@aies.net.au



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FUTURE ROBOTS TO STAY ONE STEP AHEAD OF BUSHFIRES

Robots could be used to scout areas ahead of bushfires where fire fighters cannot safely go.

Our researchers are building ground robots to scout ahead of bushfires and help keep fire fighters safe.

By Geoff Egan

Source: CSIRO, © Commonwealth Scientific and Industrial Research

Bushfires can move at astonishing speeds. The land, amount of vegetation, and the weather all have a big impact on how a fire spreads. Staying one step ahead is no easy task, but our bushfire researchers are working on it.

Fire fighters need to know where bushfires are, how far and how fast they could spread, and how dangerous they could become. Especially when there's more than one fire to prioritise.

But getting on-the-ground information can often take fire fighters dangerously close to active fires. Drones can offer a view from the skies. But they battle smoke and winds, need permissions to fly, and have limited battery life.

That's why our researchers are part of the Silvanus Project, an international effort to design on-the-ground robots. Their job? To gather useful information while keeping fire fighters safe during bushfires.

ROBOTS IN FRONT

Scientists from Data61's Queensland Centre for Advanced Technologies are working on robots that could travel into fire fronts. Some move on legs, and others on tracks. Once at the front, they can send back valuable information to fire fighting headquarters. This includes where a fire is, where it's heading, and how much fuel is in its path.

The technology is still in development. Last year our Data61 robotics team showed fire services how these robots could help during a bushfire. They gave a demonstration to representatives from Queensland Land and Wildlife Service, Firesticks Alliance, and Digital Earth Australia, as well as researchers and developers from The University of Queensland, Catalink and Venaka.

ROBOTS FIGHTING FIRES ON THE FRONTLINE

These robots will be able to navigate to and from fire fronts independently. They can capture images, geolocations, and other results. They transmit them back to a cloud-based platform, which authorities can monitor from afar.

On-board remote sensing lasers can also measure tree and leaf density. This helps to predict how much fuel there is in surrounding areas.

Senior experimental scientist Tom Lowe said the robots would be deployed in areas too dangerous for fire fighters to enter.

"Using this online platform, you can see a map of what the ground robots have found," Tom said.

"If you had a number of these ground robots scouting in front of fire, you'd have a tremendous amount of information at your fingertips.



Then you could combine it with data from a drone overhead, and even crowd-sourced information from social media."

While the technology is still in development, in a matter of years these robots could tackle real fires.

"I don't expect we will see these working in active bushfires this year, but by the end of the decade I think it's very likely," Tom said.

"Twenty years ago, people wouldn't have expected aerial drones to be used in fire fighting like they are now. And they are probably 10 years ahead of ground robots."

INTERNATIONAL RESEARCH EFFORT

Cyber-Physical Systems Research Director Navinda Kottege said ground robots could save lives.

"These ground robots could change the way we fight dangerous bushfires," Navinda said.

"The ability to understand where fire fronts are and the fuel loads in the forest or bush – accessible via web platform in real-time – may prove invaluable for fire fighters. And



CSIRO researchers are developing technology to use ground robots as scouts to use near bushfires.

that is on top of the major benefit of not requiring fire fighters to be near extremely dangerous fires."

The research is part of the EU Horizon 2020-funded Project Silvanus. It includes researchers from Europe, Australia, Indonesia, and Brazil. Silvanus is an international effort to develop a climate-resilient forest management platform. It aims to prevent and suppress fires where needed.

The platform will support decision-making to help authorities be better prepared for fires. It will also help streamline the response when a fire breaks out.

The project brings together wireless communication, remote detection, and fire behaviour modelling. It involves coordinating data from drones and ground robots into a single platform for fire authorities.

Our team continues to collaborate with Project Silvanus researchers in Czech Republic. Together, they are working on technology to coordinate many robots acting in a single system, like a swarm of insects.

The 'swarm robotics' technology will help a group of robots like ours work together to cover large areas and provide intelligence to off-site firefighters. •

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PITMAN AND WALSH MEMORIAL SITE REDEDICATED

The memorial to murdered WA Police Force officers Inspector John Walsh and Sergeant Alexander Pitman has been moved and rededicated.

Source: police.wa.gov.au

Insp. Pitman and Sgt Walsh were murdered almost 100 years ago – on 28 April, 1926 – as they were investigating gold theft in Kalgoorlie.

The existing Kalgoorlie memorial had been erected at the location where the officer's bodies were discovered in a mine shaft at Miller's Find on the outskirts of Kalgoorlie in 2015.

This area is now within a mining lease and so to provide better public access the memorial was relocated following collaboration between the WA Police Historical Society and lease holder Norton Gold Fields.

Among those in attendance at the rededication ceremony on Saturday 27 April were WA Governor the Hon Chris Dawson AC APM, Commissioner Col Blanch and descendants of the murdered officers.

Armadale Detective Senior Constable Matt Leitch is the great, great grandson of Insp. Walsh and he and his family (pictured) were among those who gathered on the day. "I think it's amazing to see that after 98 years it still makes an impact on the local community and the WA Police Force," he said. "It's a story I've told my children, I was told growing up and it's one that I hope to pass on for many more generations to come."

The new site has seating areas and information boards placed along a pathway. One of these boards is dedicated to the Aboriginal Trackers, Cordi Sambo and Broadarrow Tommy who were employed by police to find the officers' bodies.

Descendants of both Trackers were also among the 100-strong crowd.

Commissioner Col Blanch and Norton Gold Fields Chief Executive Legend Huang cut a ribbon to officially open the memorial after which a number of wreaths were laid.



In April 1926, Inspector John Walsh and Sergeant Alexander Pitman of the Gold Stealing Detection Unit were murdered while investigating gold theft.

Their charred and dismembered bodies were later found at the bottom of a disused mine shaft at Miller's Find near Kalgoorlie. A week later their bicycles were found in bush 27km away.

On 6 June three local men, Evan Clarke, Phillip Treffene and William Coulter were arrested. Clarke turned King's evidence, swearing he had only assisted in disposing of the corpses.

Treffene and Coulter were found guilty of murder and hanged.

A funeral for the two officers was held in Perth on 17 May 1926.

The procession was watched by thousands and attended by a large number of police officers.

The Perth memorial to the two policemen was erected outside the police building in James Street in 1929, moved for a time to the WA Police Headquarters in Adelaide Terrace in 1988, and is now located near the chapel at the WA Police Academy in Joondalup.

The memorial was designed by Constable D. Cummings of the Perth Traffic Branch and is a symbolic figure of justice with bowed head, but without the traditional blindfold. •



IF IT'S FLOOD WATER, REALLY FORGET IT!

Penrith Whitewater Stadium. Photo courtesy of Sport NSW.

I'm in flood water, being bowled downstream faster than I can swim. It's cold. And rough. Struggling to swim defensively, my foot snags on an unseen obstacle, spinning me half round.

Mike Shapland MBE MAIES, Brisbane City Council SES Unit

Will it catch, pulling me under, drowning me? It doesn't; but another standing wave catches me in the face, leaving me choking. I'm swept round the next bend.

And the instructor calls out, "just swim gently to this eddy."

This is the New South Wales SES Flood Rescue land-based course run at the former Olympic white-water stadium at Penrith. The stadium consists of a 320 meter long 'river' which drops 5.5 metres from top to bottom - and when you're in it, you feel every centimetre of that drop!

The river ranges from 8 to 14 metres wide and is full of moveable natural and artificial obstacles that provide a variety of hazards for the unwary. Its water flow comes from six pumps that produce up to 14,000 litres per second for your aquatic enjoyment.

But hang on! This is supposed to be a land-based course - right? What am I doing in the water?

Well, the obvious answer is that on a course about rescue you need someone to rescue. That's us - the participants. The very professionally run course ensures, first, that potential rescuers understand the difficulties and perils of being in flood water at first hand.

Safety comes first. The 20 odd participants came from a variety of Emergency Service organisations - NSW SES, Wisemans Ferry Rural Fire Brigade, the NSW Volunteer Rescue Association, NSW Water Police, Coastguard and a handful of us Queensland SES volunteers and trainers.

All of us were kitted out with well-fitting wetsuits, leg-strapped PFDs, and helmets from their purpose-built training truck. Our own

personal water-suitable shoes rounded off the protection.

An early element of the course was a practical introduction to flood water - from an entry point facing upstream, standing in surging water in which it was difficult to stand. The technique is to cross your arms in front of your face and launch yourself face down into the turbulence. No prospect of keeping anything dry - you're in it!

The course covered defensive and aggressive swimming; first to get you safely negotiating the underwater hazards at least peril and then to get you to the relative calmness of eddies at strategic points along the river edge.

Flood rescue is not Swiftwater rescue. The NSW SES differentiate between land-based rescue (our course), on water (from a flood boat), and in water (the swift water rescue competency). The advantage

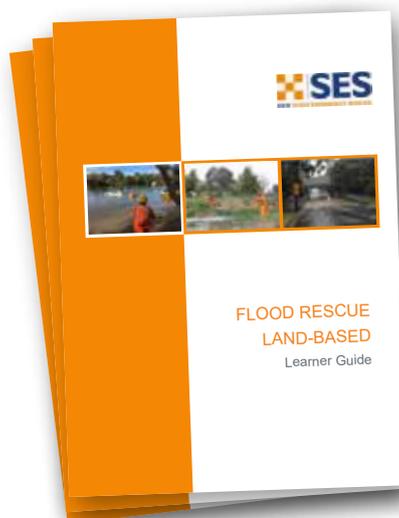




NSW SES purpose-built Flood water rescue training truck - a quartermaster's store of PPE. Photo by Mike Shapland with permissions granted by SES NSW.

of the land-based course is that it runs for only a day, allowing a significant number to become qualified, spreading the expertise widely across rescue organisations.

The pre-course learning is well structured and comprehensive, giving you an understanding of the hydrology of flood water and the characteristics you – or those you are rescuing – are likely to encounter. We learned to identify areas where slow and fast flowing water are most likely, how to recognise eddies, all about 'haystacks' or standing waves and smiling and frowning holes. When you're in the water all of these are just wet, but from a rescue planning perspective, they inform risk assessment, identification of cold, warm and hot zones and they become important as you develop your rescue plan and position upstream spotters and downstream back-ups.



NSW SES Flood Land Based learner guide © State of New South Wales through NSW State Emergency Service, 2022

The flood rescue algorithm for land based rescue – Talk/Yell, Throw, Reach, Wade, Throw - provides an indication of the skills we came away with.

The course emphasised communication with the victim as a primary and important part of stabilising the situation. Those you rescue are likely to be frightened, confused, in shock, and unable to help themselves. Establishing communication to provide reassurance and to give clear simple direction is the first essential step.

The first 'throw' refers to throwing anything that will help the victim with their buoyancy; the second to something that remains connected to you on the bank, such as a floating rope in the excellently-designed NSW throw bags. We practiced our throw accuracy, first on the grass, and then for assessment to another participant in the river - not as easy as it sounds and a skill worth practicing.

NSW SES provide a range of other equipment for land-based



Photos by Mike Shapland with permissions granted by SES NSW.

rescuers; extendable 'reach and rescue' poles with loops to reach victims, a cunning device to quickly attach a rope to a stationery object like a bulbar, and an inflatable hose kit to provide a cross-river barrier as a downstream backup for any planned rescue operation.

Like everything the SES does, teamwork is essential. We practiced wading out in a six-pack of people to reach and retrieve a victim on a simulated car top – a synchronised crab-like shuffle with the victim plopped in the middle of our six-pack on the way back.

We practiced supporting a Swiftwater rescue team, moving a victim from flowing water onto a stretcher and out.

As on any course, skills you pick up from others were a major bonus. How to really support the head of a rescued victim, passed on by an experienced Volunteer Rescue Association member was a standout for me.

And we spent time in the water. That time emphasised the difficulty that flood water can cause. Even when you know what to do and are swathed in effective PPE, the act of catching a rope and putting it over your opposite shoulder so that you can be effectively hauled ashore is hard. Rescuing people being swept downstream is a chancy and fraught activity, illustrated by stories from the instructors.

One of the final exercises was dealing with 'strainers' in a river – areas of rocks or trapped debris through which water can pass but you won't. Once trapped against a strainer, the force of the current pins you and rescue become hard. The best way, we were told, to avoid entrapment is to try swimming up onto the object and out of the current. It is very difficult. Moving from defensive to aggressive, and swimming as fast as I could towards the strainer, I made it the first time and failed the next three. Failure was the norm; it was the experience that was important.

At the end of a challenging and tiring day along with my peer participants, I was judged competent to 'Perform land based Swiftwater and floodwater rescue and recovery.'

WHAT DID I LEARN?

- First, NSW SES runs an excellent, challenging and very worthwhile course. Their instructors, one who had come over from the United States, were encouraging, effective and very knowledgeable.
- Second, I'm not as good a swimmer as I thought I was! Don't get me wrong, I like being in the water, but the course tested my fitness in ways I didn't anticipate.
- Third, flood water is dangerous. So, if it's flooded, REALLY forget it!



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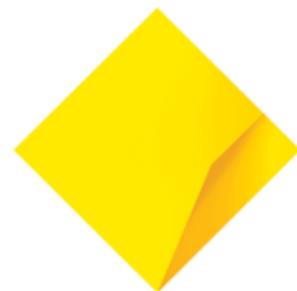


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RUOK?™

A conversation could change a life.

First responders aren't immune to life's ups and downs

How to support those from our community who care for our community

Phil is the Deputy Controller - Community Engagement at VICSES Chelsea Unit and has been a volunteer for over 20 years. After experiencing a life changing health scare, his orange family rallied around him. He shares his story in the hope to encourage everyone to look out for their peers and make R U OK? conversations a part of their everyday.

For 20 years I have worn the orange uniform and put my heart and soul into helping others on their worst day.

In 2021, on a regular Sunday morning, my worst day came.

I got out of the shower and felt a little light-headed. Looking in the mirror I noticed my mouth was slightly lower on the right side.

My training with SES made me well aware of F.A.S.T - a quick test to recognise common signs of a stroke (F-ace weakness, A-rm weakness, S-peech problems and T-ime to call 000). I attempted to lift my arms, but the right one was struggling. Not wanting to take any risks, but also attempting to remain calm, I called my wife and through slurred speech asked her to call our lovely neighbour who happened to be a nurse.

Within a flash she was there, and immediately called an ambulance. After nearly 24 hours in hospital and numerous tests, it was finally confirmed, I had had an Ischemic Stroke on the left-hand side of my brain stem.

It felt absolutely bizarre to me that normally I am the one rushing to help and be by someone's side and now it was me that couldn't move, and I was the one needing help.

The recovery road was rough, especially because it was during COVID-19 restrictions, so no visitors were allowed.

After a month of intense speech therapy, physio, and occupational therapy, I was able to go home!

What kept me going?

The unwavering support and frequent check ins from family, friends, my orange family, and my extended orange family (the hundreds



of people on our Facebook page who sent comments of support) kept me motivated. They weren't just checking in on physical progress – but my headspace too. Being able to talk about what had happened helped me process my emotions and stay positive.

Something as significant as a stroke affects more than the person involved. It affects everyone around them. The wonderful orange family checked in on my family daily which gave me permission to concentrate on my recovery, without feeling guilty about not being home.

That's what makes the SES so special. We are from so many different backgrounds and cultures, but as soon as we put on the orange, we are one – one family, one team, a single unit, and as such, we all care about one another.

Family can mean different things to different people, but for me it's about care, support, and trust, and knowing that through them, someone will always have your back.

Even though I couldn't put the orange uniform on, they continued to care.

Why am I sharing this story?

Because my health scare is a stark reminder that emergency services workers aren't immune to life's ups and downs, and there will be times when we need support too.

Now that I'm back working, with a new lease in life, I am more determined than ever to remind people just how important those small (but mighty) conversations are.

At any time, emergency services workers and volunteers can be called on to attend some horrible scenes. We meet people that are going through incredibly stressful times and see things that most people will never see in their lifetime. These jobs can have an accumulative effect on a crew member's mental health, and in some cases lead to burn out and major health concerns.

Having a connection with fellow members means that you can more easily pick up on subtle changes, small alarm bells and even asks for help, that you wouldn't see if you didn't have that connection with them. Which is why conversations matter – it's what builds those connections!

But this doesn't just apply to SES, it applies to everyone.

Life can be tough, and we all have our ups and downs. We don't have to wait until R U OK? Day to check in on someone. It can be done any day, and every day.

Before you ask, you must be ready and willing to listen. To really hear what they have to say without judgement.

Be supportive and never dismissive.

'You'll be fine mate' doesn't allow someone the time and space to talk. Sometimes the issues are deeper.

My top tip is to be present in the conversation because the opportunities you give someone to speak while really listening, the more chance you have of unearthing the problem and getting them the help they need.

So, here's your reminder to check in on:

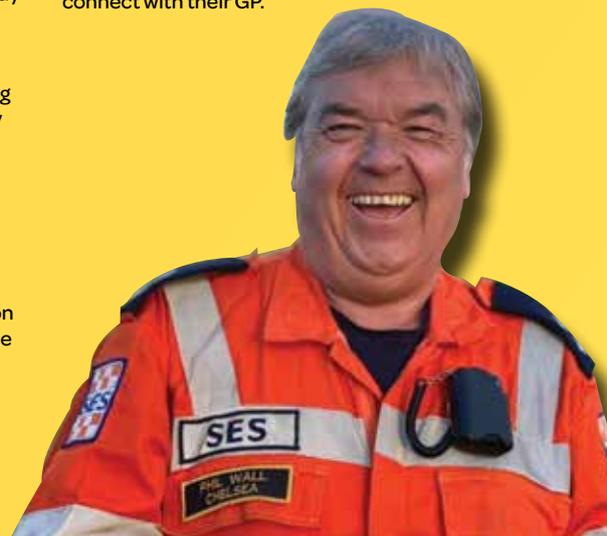
- Your colleague who is off sick
- Your emergency service friend who's responded to back-to-back jobs
- Your neighbour who lives alone
- Your sibling who started a new job
- Your mate who just became a parent

And so on...

If conversations helped me bounce back from a stroke, imagine what it could do for others.

Phil's story can be found at ruok.org.au along with the free 'Are They Triple OK?' resources for police and emergency services workers and volunteers, as well as their family and friends. These include a conversation guide, a podcast and other personal stories.

If you're worried about someone, encourage them to contact their Employee Assistance Program (EAP), agency support service or connect with their GP.



WELCOME CESM MEMBERS

The AIES welcomes four new members to be awarded the Certified Emergency Services Manager (CESM) designation.

By NSW/ACT/INT President David **Parsons** FAIES and

VIC Vice-President Doug **Caulfield** OAM RFD FAIES

The CESM recognises our members who are remaining contemporary through continuing professional development and sharing their knowledge with the emergency management sector.

To qualify, AIES members are required to undertake 100 points of continuing professional development and knowledge sharing activities each year. If successful, AIES members are entitled to use the CESM post nominals for a period of three years.



PAUL SEAGER CESM MAIES

Paul is an Assistant Commissioner with the NSW Rural Fire Service (RFS). As Director Training and Doctrine, he leads the operational training, lessons management and operational doctrine programs, and the RFS State Training Academy in Dubbo.

His work history includes leading fire training, lessons management and succession management programs with the NSW National Parks and Wildlife Service, and operational management roles with both the NSW and South Australian National Parks and Wildlife Services.

Paul has extensive incident management skills and experience, with particular interests in incident command, incident forecasting and strategic planning. Key achievements include seven interstate operational deployments, and developing and mentoring high-

level incident managers, across multiple agencies and jurisdictions.

His qualifications include a Graduate Diploma of Emergency Management (CSU), Graduate Diploma of Management (CSU) and Bachelor of Applied Science (UniSA).

Paul is a member of the AFAC AIIMS Steering Group, AFAC Emergency Management Professionalisation Scheme Panel, and a previous member of the AIDR Incident Management Handbook Working Group.

He is committed to maximising individual, team and organisational potential through capability development, mentoring and sharing experience through storytelling, both across and outside of the NSW public sector. His consistent professional and personal theme – building relationships lies at the heart of every successful interaction.



BRODY WICKHAM CESM MAIES

Brody Wickham is currently the Fire Training and Operations Coordinator at the Forestry Corporation of New South Wales (FCNSW).

He is dedicated to his role in managing fire safety and operational training to assist FCNSW achieve a high standard of land management using prescribed fire and the management of wildfires.

As a volunteer firefighter he holds the position of Deputy Captain at

Tamworth City Rural Fire Brigade (NSWRFS), demonstrating his commitment to community safety. Brody is currently advancing his knowledge in Emergency Management by pursuing a Bachelor's Degree in Emergency Management at Charles Sturt University (CSU). Brody has qualifications as a Level 2 Incident Controller and Operations Officer.

In the past couple of fire seasons, he has gained experience in NSW and Interstate Level 3 Incident Management Teams (IMT's) as Deputy Incident Controller and in Operations. Brody also fills a spot on the FCNSW State Duty Officer roster including regular attendance at the NSWRFS State Operations Centre as FCNSW Liaison Officer. Brody became a member of the Australasian Institute of Emergency Services (AIES) after finding out about the organisation through his studies at CSU.

He is excited at the opportunity to connect with and learn from a variety of Emergency Service Managers and hopes to also be a valuable contributor to the AIES and broader community.

WAYNE SUNDERLAND CESM MAIES

Wayne is currently the Senior Manager Climate Ready Communities with Country to Coast Queensland where he leads the Disaster Management portfolio.

This includes engaging and collaborating with 12 councils and other state partners to build resilience through health and wellbeing and providing support to the primary healthcare sector across Central Queensland, Wide Bay, Gympie and Sunshine Coast communities. Wayne is currently working with



Rockhampton, Livingstone, Noosa and Sunshine Coast councils to develop and facilitate workshops designed to enhance disaster preparedness across the aged care sector in the Central Queensland and Sunshine Coast regions.

Wayne has been a member of the AIES since January 2016 and is studying a Bachelor of Emergency Management at Charles Sturt University. Wayne is passionate about disaster resilience, response and recovery and integrating resilience into how we do business and how we support our community during events.

Over a career in Emergency Response, Management and Disaster Management Wayne has held positions as Disaster Management Lead at Sunshine Coast Council, Emergency Response Coordinator with the Sunshine Coast Hospital and Health Service for a period of four years where an achievement was leading the Health Emergency Operations Centre during the COVID-19 Pandemic for the Sunshine Coast and Gympie regions, coordinating healthcare support along with other agencies to enhance community safety.

Wayne has also held positions with the Australian Army as a Supervisor Emergency Response, within the resources Industry in Emergency Management and within the corporate sector as an Emergency Compliance Consultant.



MATT CAMPBELL CESM MAIES

Matt Campbell is a seasoned emergency management professional with over 20 years of experience at Rio Tinto. His unwavering commitment lies in ensuring the safety and well-being of not only Rio Tinto's responders and employees but also the support for communities where the operations are located.

As Principal Emergency Management, Matt has spearheaded critical projects and initiatives that have enhanced Rio Tinto's emergency response capabilities. Rio Tinto has one of the largest privately run emergency response teams, with over 1200 responders nationally and 2500 globally.

In addition to his role at Rio Tinto, Matt has actively volunteered with the Department of Fire and Emergency Services (DFES) in Western Australia as a firefighter, brigade Captain and 10 years as Fire Control Officer for the Shire of Ashburton. Matt has been on the frontlines, working alongside career and volunteers to protect communities.

Matt is also a proud member of the Emergency Management Community of Practice. This collaborative network brings together emergency management

professionals from big mining (currently 14 mining companies) to share knowledge, best practices and innovative solutions.

Matt has led a number of key projects such as BARRIO – A post fire decontamination process. At the time (2017), this groundbreaking decontamination process for post firefighting activity had a goal to minimise the health impact to emergency responders through mitigating the long term / accumulative exposure of post fire activity and station hygiene.

Another key project Matt led was the RORI program, which is the introduction of long-range emergency response robots. Matt championed the integration of RORI, a cutting-edge Australian made, long range emergency response robot. RORI enhances Rio Tinto's ability to assess and respond to incidents in challenging environments. Rio Tinto has 5 RORI platforms across its sites, four of which are integrated into Fire Appliances.

Matt holds an Advanced Diploma in Public Safety (Emergency Management) with Diplomas in Paramedical Science, Engineering, Work Health and Safety. •

For more information about the Certified Emergency Services Manager (CESM) acknowledgement, including how to accumulate points and the adjudication panel, visit the member portal page on the AIES website or contact your Division President.



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AMBULANCE SERVICE MAKES PLANS TO DELIVER DEFIBRILLATORS BY DRONE

The Welsh Ambulance Service is moving closer to using drones to fly defibrillators to patients.

Source: Emergency Services Times (UK)

The Trust has partnered with the University of Warwick and SkyBound to explore whether drone-delivered defibrillators could make a difference to someone in cardiac arrest.

When someone has a cardiac arrest, they either stop breathing entirely or take gasping or infrequent breaths. As well as immediate cardiopulmonary resuscitation (CPR), a defibrillator can help to restart their heart while waiting for the emergency services to arrive.

Carl Powell, the Welsh Ambulance Service's Clinical Lead for Acute Care, said: "In a cardiac arrest, every second counts. We will always send an ambulance as quickly as possible on lights and sirens, but starting chest compressions and delivering an electric shock with a defibrillator in the meantime could mean the difference between life and death.

"If you're helping someone in cardiac arrest, it might be difficult to find a defibrillator soon enough to make a real difference, especially in rural areas and especially if you're the only person there, which is why we're thinking about better ways to get help to patients.

"In Sweden, ambulance services have used flying drones to deliver defibrillators to people after cardiac arrest. Nobody has yet demonstrated how we could do this in the UK – until now."

More than 6,000 people have a cardiac arrest in the community in Wales every year. Funding from Resuscitation Council UK enabled the Drone-Delivered Defibrillators study, or '3D Project', to conduct a number of test flights to demonstrate the feasibility of delivering a defibrillator via drone after a 999 call.

Further funding from the National Institute of Health Research and Health and Care Research Wales has enabled the 3D Project to enter its next phase, which is to interview people who have helped someone in a real-life cardiac arrest to understand the difference that a drone-delivered defibrillator could have made.

This summer, researchers will also perform long-distance 'beyond visual line of sight' flights to demonstrate how real-time communications between the 999 control room and a drone operation team would work during a cardiac arrest call.

The 3D Project is one of a number of studies involving the Welsh Ambulance Service, which earlier this month was granted University Trust status by Welsh Government in recognition of its commitment to drive research and innovation. Read more about that story here.

Professor Rees said: "We have an extensive research portfolio, and this is an example of the longstanding partnership we have with the University of Warwick and other partners conducting research and innovation that is of international significance.

"University Trust status formally recognises the world-class research we undertake to improve public health and patient care-enhancing knowledge, as well as advancing treatments in the NHS and making a difference to people's lives. It also helps our patients, population and stakeholders to understand the vital links between health, education and research which lead to better outcomes for us all."

The 3D Project is due to conclude in October 2024 and the results will be available in early 2025. •



MAJOR GENERAL BRIAN (HORI) HOWARD AO MC ESM (RTD) MAIES

The AIES offers its condolences to the family of NSW member Major General Brian (Hori) Howard AO MC ESM (Rtd) MAIES who passed away in Canberra on Thursday 16 May.

Hori has been a member of the AIES since the 1990s. We remember and acknowledge Hori's service as the major Officer Commanding A Company 3rd Battalion The Royal Australian Regiment (3 RAR), South Vietnam 1967-1968.

Hori's emergency service work was extensive. He led NSW SES from 1989 to 2001 and during this time oversaw significant improvements, steering the agency towards a more professional approach in relation to its combat roles.

This included modernising equipment, communications systems and vehicles, as well as improving the training standards of our members, and developing plans that guided the agency's response to flood and storm threats.



During his time as Director General, Hori led a number of emergency operations in response to major flooding and severe storms in NSW and was awarded the Emergency Services Medal for his efforts.

By the time he retired from the NSW SES, Hori had significantly improved the SES profile in the community, setting a solid foundation for the developments that were to follow for the future SES.

He held numerous Board roles, such as Chair of the NSW State Emergency Management Committee, Chair of the Australian Council of State Emergency Services and the Australian Emergency Management Volunteer Forum.

Our deepest sympathy and condolences are with Hori's son Mick and his family along with the wider Howard family and friends.

This Vale compiled with help from the SES NSW. •

KEVIN EDWARD PERRY, ESM MAIES

It is with a profound sense of sadness that the Victorian Division Committee announces the passing of one of our very long-standing members of AIES. Kevin joined AIES on 18 April 1987 and served as an active member for 37 years.

Throughout that period of membership, Kevin was a significant contributor to the Emergency Management sector and was recognised by the AIES in 2021 with the award of the inaugural Alan Alder Award 'For Exceptional Service to Emergency Management.'

The citation on Kevin's award reads: *'In recognition of his sustained excellence in Emergency Management, his dedication to the fostering of constant improvement in his local Emergency Services and ongoing selfless service to the community'*

Earlier, Kevin was recognised for his efforts in providing written material to the *National Emergency Response* magazine with the award of the coveted (National) Golden Pen Award for his article about



the loss of his family home in the 2019-2020 bushfires in East Gippsland.

Despite the tragic loss of his long-term home in Sarsfield, East Gippsland, Kevin pushed on with a determination that he

was famous for and continued to serve his community through his association with the Gippsland Emergency Relief Fund (GERF), and in September of 2022 he was appointed a Director of the East Gippsland Community Foundation. In tandem with the appointment to East Gippsland Community Foundation, Kevin was also elected as the President of the Sarsfield Community Association as well as being a member of the Community Bushfire Recovery Committee and Recreation Reserve Management Committee.

Kevin will be sadly missed, and the EM sector has not only lost a true gentleman but also a tough taskmaster who was not afraid to call it like it is when performance of others was not up to his very high standards of EM practice.

May he rest in peace. •



MERCHANDISE

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NB: The best way to find a shirt that fits: lay a polo flat on a table and measure under the armpit, from armpit to armpit then match to get the sizing below.

| POLO SIZE | MEASUREMENTS | QUANTITY |
|-------------|------------------------------|----------|
| X Small | Chest 48 – Front Length 67.5 | |
| Small | Chest 51 – Front Length 70 | |
| Medium | Chest 54 – Front Length 72.5 | |
| Large | Chest 58 – Front Length 75 | |
| X Large | Chest 61 – Front Length 77.5 | |
| 2X Large | Chest 63 – Front Length 80 | |
| 3X Large | Chest 66 – Front Length 82.5 | |
| 4X Large | Chest 68 – Front Length 85 | |
| 5X Large | Chest 71 – Front Length 87.5 | |
| OTHER GOODS | | |
| Cap | | |

Name: _____

Member No: _____

Address: _____

Suburb: _____

State: _____

Postcode: _____

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Australasian Institute of Emergency Services

PO Box 2469, Chermside Centre, Qld 4032



MEMBERSHIP INFORMATION

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Please forward all mail for all divisions to:

Australasian Institute of Emergency Services
PO Box 2469, Chermside Centre, Qld 4032

THE INSTITUTE'S AIMS

To provide a professional body for the study of the roles and functions of Emergency Services and Emergency Management Organisations throughout Australasia, and the promotion and advancement of professional standards in these and associated services.

THE INSTITUTE'S OBJECTIVES

- To raise the status and advance the interests of the profession of emergency management and counter-disaster services administration.
- To represent generally the views and interests of the profession and to promote a high standard of integrity and efficiency in the skills of emergency and counter-disaster administration.
- To provide opportunities for association among members and students to promote and protect their mutual interest.
- To facilitate full interchange of concepts and techniques amongst members.
- To bring to the notice of the public such matters that are deemed to be important for safety and protection of the community and to promote research and development of emergency services generally.
- To establish a national organisation to foster international co-operation in counter-disaster services administration.

THE INSTITUTE OFFERS

- An opportunity to be part of a progressive Australasia-wide Institute dedicated to the progression and recognition of the Emergency Service role in the community.
- An independent forum where you can be heard and your opinions shared with other emergency service members.
- A journal with information from institutes and other sources around the world in addition to the interchange of views between Divisions in Australia, as well as access to the Institute website.
- Reduced fees for members at Institute Seminars and Conferences and an information service supplied by professional experienced officers.
- A Certificate of Membership.
- The opportunity to use the initials of the particular membership status after your name.
- Corporate members receive a bronze plaque free of charge and can advertise on the AIES website, as well as provide articles for inclusion in the Institute's journal.

MEMBERSHIP

Costs
Annual Subscription: \$60.00
Fellows: \$80.00
Corporate Subscription: \$500.00
Note: Institute Fees may be tax deductible.

CLASSES

There are four classes of membership:
• Members • Fellows • Life Fellows • Corporate
There are five categories of affiliation with the Institute that may be offered to persons who do not meet the requirements for membership:
• Associate • Student Member • Retired Member
• Honorary Member • Honorary Fellow

ELIGIBILITY

Applications for membership will be considered from persons who are at least eighteen years of age and who:
• Are members of a permanent emergency service or associated service, or
• Are volunteer members of emergency or associated services.

Admission as a member may be granted if in the opinion of the General Council the applicant meets all other conditions of membership and passes such examinations and/or other tests as may be required by General Council.

MEMBERS

Our members come from
• Ambulance Service • Community Services • Emergency Equipment Industry • Emergency Management Organisations • Fire Services • Surf Life Saving • Health, Medical and Nursing Services • Mines Rescue • Police and law enforcement agencies • Safety Officers • SES • Transport Services • Volunteer Marine Rescue • Volunteer Rescue Associations



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澳大利亞塔州中國佛教學院
TASMANIAN CHINESE BUDDHIST ACADEMY OF AUSTRALIA

Harmony Week
unites Australians from
diverse backgrounds for
a celebration of our
rich diversity.

Inclusiveness and respect
are fundamental values
crucial for our collective
prosperity and well-being.

