Australia & New Zealand
SEARCH & RESCUE CONFERENCE
24 May 2017 | Jupiters Gold Coast
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www.saranzdmc.com.au
As the Conference Chair, it is my pleasure to welcome you to the 2017 Australian & New Zealand Search and Rescue (ANZSAR) Conference.

The SAR industry encompasses a diverse group of people, from professionals to volunteers, civilians to law enforcement and military, across every conceivable environment. SAR is carried out on land, at sea and by air, with many specialist sub-disciplines in each context. It is important work that's done on a daily basis by extraordinarily skilled and motivated people.

Building on the success of last year’s conference, SAR2017 has lined up an exciting program of inspiring speakers and captivating presentations. Together with interactive forums, panel discussions, and networking opportunities it will provide delegates with a significant learning experience.

SAR2017 is an ideal platform for SAR practitioners to share ideas, discuss case studies, and take a critical look at some of the new developments in technology that are poised to fundamentally change the way we go about our business. As we strive for continual improvement this conference will encourage cross-pollination of ideas, transfer of information, and new ways of thinking.

On behalf of the Conference Committee I would like to thank you for your interest in what promises to be an outstanding event.

I look forward to meeting you all.

Martin Boyle
Conference Chair
Australian & New Zealand Search and Rescue Conference

The following information is offered to make your attendance at the 2017 Australian & New Zealand Search and Rescue Conference as pleasant as possible. If you require assistance, please visit the Conference Secretariat at the registration desk and we will do everything to assist you with your enquiry.

REGISTRATION AND INFORMATION DESK
The registration desk will be located in the Pavilion and will be open as follows:
- Wednesday 24 May: 8:00am - 5:00pm

Upon arrival, please ensure you collect your name badge at the registration desk. The staff will be happy to assist you in any way they can.

ACCOMMODATION
Accommodation accounts must be settled with the hotel on check out. The Conference Committee and or the Secretariat are not responsible in any way for outstanding accommodation accounts.

CONFERENCE ENTRY
Each conference delegate will be issued with a name badge on registering. The name badge must be worn at all times as it is your official pass to all sessions, the exhibition, lunch, morning tea and afternoon tea.

SPEAKERS PREP
Speakers Prep is located in Broadbeach Room. If you are a presenter please ensure you upload your presentation at least 1 hour prior to your scheduled presentation time.

INTERNET
Complimentary Wi-Fi internet has been arranged for all delegates. To connect your devices please follow these simple steps;
- Go to SETTINGS / WIFI –
- Select The Star Free Wi-Fi
- Enter your email
- Tick the over 18 box and then
- Login

CONFERENCE SOCIAL MEDIA
Delegates are encouraged to share their thoughts throughout the conference.

Twitter: #SAR2017
Facebook: SARConference

MOBILE PHONES
Please ensure all mobile phones are switched to silent while in conference sessions.

STAFF CONTACTS
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PROGRAM COMMITTEE
- Mr Martin Boyle, CEM – Field Support and Emergency Management Coordinator, Australian Antarctic Division
- Mr Eddie Bennet, CEO, Little Ripper Lifesaver
- Mr Mark Cattell, Operations Manager, Victoria State Emergency Service
- Mr Rhett Emery, NSSP Coordinator, New Zealand Search and Rescue Council
- Mr Stephen Leahy, Chief Executive Officer, Westpac Life Saver Rescue Helicopter
- Assistant Commissioner Stephen Smith, Assistant Commissioner, South Western Region, Queensland Fire and Emergency Services
- Senior Sergeant Jim Whitehead, Queensland State Search & Rescue Coordinator & Training Officer, Queensland Police Service
**Keynote Speakers**

**Associate Professor Benjamin Brooks, Research Fellow, National Centre for Ports and Shipping, University of Tasmania**

Ben has 20 years of experience as a trainer/educator, researcher and consultant. Ben’s research focus relates to assessing and changing safety cultures, decision-making, and the measurement of human performance. He works with a range of stakeholders including regulators, emergency management agencies and private organisations. He builds measurement tools, training systems, technology prototypes and focuses on improving efficiency, increasing safety and managing risk in high tempo, high consequence working environments.

**Mr Rich Hungerford, Director/Senior Instructor, Bush Lore Australia**

Rich Hungerford is a former Australian SAS soldier who now teaches survival, tracking and bushcraft skills at his Bush Lore Australia Survival School in Queensland, Australia. With over twenty-five years of professional survival and tracking training and experience, Rich has accumulated a wealth of knowledge and been there and done it. Accordingly, survival is not just a hobby or an interest for Rich, it is what he does. He successfully blends the unconventional military, the traditional bushcraft and the naturalist perspectives in a way that offers course participants access to a unique depth of knowledge in bushcraft, tracking and survival. Rich continues to explore his passion for the natural environment and enjoys passing on his extensive experience to others.

**Assistant Commissioner Rob McNeil, Assistant Commissioner Regional Operations, Fire & Rescue NSW**

Assistant Commissioner Rob McNeil has been a member of Fire and Rescue NSW for 33 years and in the position of Assistant Commissioner Regional Operations leads the management of three Regional Area Commands consisting of 9 Zone Commands with 164 fire stations; 300 Permanent firefighters and 2,213 On Call firefighters. During the period from 2009 - 2010 Rob was the Assistant Director of Specialised Operations and played an active role in progressing Fire and Rescue’s hazardous material and Urban Search and Rescue. Rob has been the Incident Controller at numerous emergencies including the Australian Task Force leader for the response to the Japanese Earthquake and Tsunami. He received an Australian Fire Service Medal in 2010 for his contributions to emergency management of hazardous materials incidents.

**Mr Rhett Emery, Secretary, New Zealand Search and Rescue Council**

New Zealand Search and Rescue (NZSAR) provides national strategic governance and leadership to New Zealand search and rescue. Rhett is part of the NZSAR Secretariat which provides strategic coordination for SAR in New Zealand through: - maintaining NZSAR’s key documentation - sustaining strong domestic and international SAR linkages - monitoring New Zealand’s domestic and international SAR obligations - responding to SAR issues as they arise - providing relevant advice. While the Secretariat does not have an operational SAR role, we help improve the overall co-ordination, cohesion, capability and leadership of search and rescue by working alongside the key organisations and individuals providing search and rescue services throughout New Zealand.

**Ms Louise Proctor, Secretary, Australian National SAR Council**

Ms Louise Proctor has been the Program Manager, Search and Rescue Engagement since 2013. Her responsibilities include management of Australia’s National Search and Rescue (SAR) Council that is responsible for Australia’s national SAR arrangements. This includes the engagement approach with each State/Territory Police Service and the Australian Defence Force to ensure the continued effectiveness of Australia’s SAR system in an area that encompasses 53 million square kilometres of land and sea. Louise is also responsible for the management of Australia’s regional SAR engagement programme focused on the 10 countries that adjoin Australia’s SAR region. This includes regional technical capability development programmes currently in place with Indonesia, Sri Lanka, Maldives and Mauritius.

Louise holds a Master of Commerce and Administration in strategic planning and stakeholder management and also holds dual Bachelor degrees in Commerce and Administration (Honours) and the Arts; Major in Psychology.

**Professor Jonathan Roberts, Professor in Robotics, Electrical Engineering and Computer Science, Science and Engineering Faculty, Queensland University of Technology**

Jonathan is Professor in Robotics at Queensland University of Technology (QUT). His main research interests are in the areas of Field Robotics and in particular autonomy. He has also recently begun research in the area of Medical Robotics. Jonathan was a co-inventor of the UAV Challenge, an international flying robot competition that sees teams search for a lost bushwalker using autonomous robotic aircraft. Before joining QUT, Jonathan was the Research Director at CSIRO’s Autonomous Systems Laboratory. Jonathan is a Past President of the Australian Robotics & Automation Association and currently serves as a Senior Editor of the IEEE Journal of Robotics and Automation Letters.

**Mr Henry van Tuel, President, Coastguard New Zealand**

Henry is the current Royal New Zealand Coastguard Federation President. He is also an active Coastguard volunteer with Coastguard Hawke’s Bay where he is a rescue vessel master and Coastguard instructor. Henry has also been involved in the recent review of the Coastguard Rescue Vessel Crew Training Syllabus. Being involved with Coastguard New Zealand at multiple levels has given Henry a unique perspective, from a national governance level through to a person who actually delivers training to crew. As a rescue vessel master he is also acutely aware of the need to have well trained crew who are able to operate safely and effectively in New Zealand’s challenging marine environment.

**VISIT THE SAMARITAN’S PURSE TRUCK**

Located on the Driveway at the Front Entrance of Jupiters.

Samaritan’s Purse is a multi-faceted international Christian organisation. Australia operates from Sydney and has activity in approximately 15 countries in our region. It is a major first responder to world disasters and, it responds to fires, floods and cyclones Australia wide.

The DISASTER RELIEF UNIT is on display at this conference. Please visit and meet the team!
MARINE RESCUE NSW

Investment in radio system reinforces safety net for thousands of boaters

Marine Rescue NSW provides a vital safety net for boaters, both on the water and on the airwaves. MRNSW owns, funds, maintains and operates the only marine radio network for the boating community in NSW, monitoring VHF and 27MHz marine radio communications along the coastline around the clock. The network - the Triple Zero of the sea - is used by thousands of recreational boaters, small commercial operators, transiting vessels and Government agencies such as the NSW Police, Roads and Maritime Services and Fisheries.

With 3,000 professionally trained and equipped volunteers in 45 rescue units, MRNSW keeps a valuable safety watch over this large and growing boating community as part of its mission of saving lives on the water.

As well as scanning the airwaves for distress calls, MRNSW also uses the radio network for its free recreational vessel tracking service. Boaters are encouraged to Log On and Log Off with MRNSW whenever they head out on the water. Last year, our radio operators responded to 296,063 radio calls and Logged On 73,383 vessels. Significant investment in network infrastructure in recent years has produced valuable improvements to radio coverage along the coastline. A major upgrade at Mt Illawong on the NSW/Victoria border boosted coverage over Bass Strait to such an extent that Marine Rescue Eden recently received a Mayday call from Lady Baron Island off Tasmania’s north coast. Other projects at Timblica Hill, south of Eden; North Head, in Sydney; Coopers Shoot, above Byron Bay; Point Danger; Ulladulla and Norah Head have addressed blackspots and extended the radio footprint. This hardware investment has been mirrored by improvements in our communications practices, protocols and radio base technology. An increasing number of units are now linked to the central MRNSW communications backbone by Radio over Internet Protocol. This online technology provides system redundancy and back-up, while also supporting smaller units without a large volunteer pool to provide their 24 hour radio operations. Touchscreen technology is being progressively installed, replacing handheld marine radios and linking units to a central hub. These units can then switch their communications through to a base in Sydney to monitor their overnight radio calls, respond to emergencies and track vessels via the online Seahawk system. The radio net is complemented by the MarineRescue App, which enables boaters to Log On and Log Off directly with MRNSW via their smartphones or tablets. A vessel Logged On via the App is immediately visible in our communications practices, protocols and radio base technology. An increasing number of units are now linked to the central MRNSW communications backbone by Radio over Internet Protocol. This online technology provides system redundancy and back-up, while also supporting smaller units without a large volunteer pool to provide their 24 hour radio operations. Touchscreen technology is being progressively installed, replacing handheld marine radios and linking units to a central hub. These units can then switch their communications through to a base in Sydney to monitor their overnight radio calls, respond to emergencies and track vessels via the online Seahawk system. The radio net is complemented by the MarineRescue App, which enables boaters to Log On and Log Off directly with MRNSW via their smartphones or tablets. A vessel Logged On via the App is immediately visible in the system. Boaters using the App can choose an optional tracking service that updates their location in Seahawk every 30 minutes.

Comprehensive training produces highly effective volunteer workforce

New national training and operational requirements that came into force in July 2016 have set new benchmarks for the volunteer marine rescue sector. With a comprehensive, competency-based training regime already well established, Marine Rescue NSW is exceeding the arrangements set out in Exemption 24 of the National Domestic Commercial Vessel Safety system to establish an optimally skilled and professional marine rescue volunteer workforce. Assistant Director Training and Education Chris Butler said the key steps were to identify the skills and knowledge required for Crew, Leading Crew and Coxswain ratings; develop the learning resources and assessments aligned to the skills and knowledge required; and map the skills and knowledge to the national units of competency to align with the Certificate I and II in Maritime Operations.

“Our 3,000 volunteers, spread across 45 units in NSW, are among the busiest in the country,” Mr Butler said. “Exemption 24, combined with a significant investment in volunteer training and development in the past few years, including a new suite of training resources, has seen the establishment of one of the most highly effective volunteer marine rescue services in Australia.” Mr Butler will be a presenter at this year’s conference. For more on MRNSW, visit mrnsw.com.au

Proud Gold Sponsor of ANZSAR Conference 2017
**PROGRAM - 24 May**

### Innovative Practices
**Room:** Surfers Paradise 1  
**Session Chair:** Mr Shane Daw

**11:00 – 11:30**
**Micro Drones for Location Determination in Search and Rescue**  
Dr Mark Rice, Senior Engineering Fellow, Honeywell

**11:32 – 12:02**
**Evolution of Radio Direction Finding and Location Technologies**  
Mr Ventura Rigol, System Engineer, VP, Rhotheta

**12:04 – 12:34**
**World’s First Optical Radar to Solve the Challenge of Maritime SAR**  
Mr Simon Olsen, Director Business Development, Strategy and Partnerships, Sentient

**12:34 – 13:30**
**Lunch with Exhibitors and Poster Presentations in Marquee**

**13:30 – 14:00**
**POLsAR a Police Search and Rescue GIS Tool**  
Mr Phillip Downes, Police Rescue Search Coordinator, New South Wales Police Force

**14:02 – 14:32**
**Youth Search and Rescue Early Adopters of Innovative Technology**  
Mr Steve Campbell, Chairperson, Youth Search and Rescue

**15:05 – 15:30**
**Afternoon Tea with Exhibitors and Poster Presentations in Marquee**

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### Training Approaches
**Room:** Surfers Paradise 2  
**Session Chair:** Mr John Moy

**11:00 – 11:30**
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### Panel Discussion
**Room:** Surfers Paradise 3  
**Session Chair:** A/Prof Rod Pope

**11:00 – 11:30**
**MICRO DRONES FOR LOCATION DETERMINATION IN SEARCH AND RESCUE**  
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**EVOLUTION OF RADIO DIRECTION FINDING AND LOCATION TECHNOLOGIES**  
Mr Ventura Rigol, System Engineer, VP, Rhotheta

**12:04 – 12:34**
**WORLD’S FIRST OPTICAL RADAR TO SOLVE THE CHALLENGE OF MARITIME SAR**  
Mr Simon Olsen, Director Business Development, Strategy and Partnerships, Sentient

**12:34 – 13:30**
**Lunch with Exhibitors and Poster Presentations in Marquee**

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### Various Topics
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### Training Approaches
**Room:** Surfers Paradise 2  
**Session Chair:** Mr Mark Cattell

**13:30 – 14:00**
**TWIN TENSION ROPE SYSTEMS FOR VERTICAL RESCUE - THE WAY OF THE FUTURE**  
Mr Scott Young, Senior Fire Fighter, ACT Fire & Rescue

**14:02 – 14:32**
**POCKeT PATROL - AUGMENTED REALITY SURF SAFETY EDUCATION**  
Mr Shane Daw, National Coastal Risk & Safety Manager, Surf Life Saving Australia

**15:05 – 15:30**
**Afternoon Tea with Exhibitors and Poster Presentations in Marquee**

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**Afternoon Tea with Exhibitors and Poster Presentations in Marquee**
**Program - 24 May**

**Plenary and Conference Close**

**Room:** Surfers Paradise Rooms  
**Chair:** Mr Martin Boyle

**Training - Ensuring that your Training Syllabus Remains Relevant**  
**Mr Henry van Tuel,** President, Coastguard New Zealand

**16:00 - 16:30**

**Visual Tracking Capability for Search and Rescue and Public Safety**  
**Mr Rich Hungerford,** Director/ Senior Instructor, Bush Lore Australia

**16:30 - 17:00**

**UAV Challenge - Ten Years of Finding Outback Joe**  
**Professor Jonathan Roberts,** Professor in Robotics, Electrical Engineering and Computer Science, Science and Engineering Faculty, Queensland University of Technology

**17:00 - 17:10**

**Conference Close**

**Poster Presentations**

**A Case Study of Drift Modelling in Support of Missing Fishermen off Kiribati**  
Dr Ben Brushett, Response Coordinator, RPS  
Dr Sasha Zigic, General Manager, RPS

**Floodscape: A Smart Phone Application for Herding Cats in an Unfolding Tsunami Event**  
A/Prof Rodney Adank, Associate Professor Industrial Design, Massey University

**Search and Rescue Needs Stuff: Products and Services that Need Development and Shaping for Purposeful Application**  
A/Prof Rodney Adank, Associate Professor Industrial Design, Massey University

**Situated Design: Developing Depth and Understanding in Equipment Design for Urban Search and Rescue**  
A/Prof Rodney Adank, Associate Professor Industrial Design, Massey University

**Training Consistency - The How and Why**  
Mr Sam Dalton, Technical Director Eastern Operations, Safety Direct Solutions Pty Ltd

**Which Multitool Would MacGyver Use? Equipment Taxonomy Designed to Achieve Agility in Ad hoc Field Deployment**  
A/Prof Rodney Adank, Associate Professor Industrial Design, Massey University

**Floor Plan**

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**GOLD SPONSOR - MARINE RESCUE NSW (MRNSW)**

Marine Rescue NSW (MRNSW) is the state’s official volunteer marine rescue service, committed to our mission of saving lives on the water. MRNSW is one of the largest volunteer marine rescue groups in Australasia with 45 units, over 3100 active volunteers and 82 rescue vessels providing a 24/7 marine radio and rescue safety net across the coastline and on key inland waterways. In 2015-16 our professional volunteers contributed over 600,000 frontline volunteer hours to public safety, managed over 276,000 radio calls and responded to 3,072 incidents bringing over 6,700 people home safely.

**EXHIBITORS**

**AUSTRALIAN INSTITUTE OF EMERGENCY SERVICES**

The Australian Institute of Emergency Services offers members of emergency service and affiliate organisations the opportunity to be a member of a professional body dedicated to the progression and recognition of the Emergency Service role in the community. The Institute acts as an independent forum where members can be heard and their opinions shared with other emergency service members.

**AVIATION AND MARITIME SYSTEMS**

AMS are noted and respected specialists in the sales and service of aviation and maritime survival equipment, including complete ranges of life jackets and life rafts to suit the specific requirements of all operational and recreational environments. AMS is a fully certified (ISO 9001; ISO 14001 & AS/NZS 4801) and registered CASA & EASA Maintenance Organisation.

**BENCHMARK MONITORING**

Benchmark Monitoring provide incidence response, environmental and process monitoring services across Australia. Supply and support of complete turnkey and customised monitoring systems. Customised reporting and web-based data access to facilitate compliance and operational needs. Real-time monitoring solutions for:

- Detection of Particulates – Gases – Black Carbon
- Air Quality
- Water Quality
- Meteorological
- Noise
- Vibration

**COVERTEX LTD**

Operating for 25 years, Covertex is a world leader in the design and manufacture of rapidly deployable structures and fluid containment products. Tried and tested, our products are used by emergency response, disaster relief, military and humanitarian organisations in over 20 countries. Products include:

- Emergency AirShelters
- Flexible tanks and drums
- Inflatable rescue platforms
- Field casualty mats

**EMERGENCY SERVICES HEALTH**

Emergency Services Health is a new, not-for-profit private health insurer that is designed exclusively to enhance the physical and mental health and wellbeing of Australia’s emergency services community. It’s backed by Police Health, extending the quality cover previously police officers and their families could access to our colleagues in the emergency services.

**LIFE CELL MARINE SAFETY PTY LTD**

The Life Cell Marine Safety company has designed and developed Life Cell, an innovative float-free buoyancy device that can store all essential marine safety equipment. Life Cells are endorsed by Westpac Lifesaver Helicopter Rescue, are SOLAS certified and approved by AMSA. Life Cell is the missing link in marine safety.

**PITNEY BOWES**

Pitney Bowes is a global technology company specialising in location intelligence, customer information management, customer engagement, and global eCommerce solutions. For more than 20 years, Pitney Bowes has provided location based solutions to emergency service providers in Australia to help them better plan for and respond to natural disasters and emergencies. For more information, visit www.pitneybowes.com.au.

**POLICE HEALTH**

Police Health is Australia’s only private health insurer run exclusively for the police by the police. Operating nationally, Police Health covers police jurisdictions across all states and territories in Australia and with a proud history going back 80 years, the children and grandchildren of police officers are now choosing Police Health for their private health insurance.

**RHO THETA**

RHOTHETA specialises in the development and manufacture of professional radiolocation systems for Air Traffic Control, Search-and-Rescue, surveillance, and tracking of emergency and non-emergency transmitters such as V-UHF radios, MOBs, ELTs, PLIBs, Lojack, ETS, and Medical beacons. RHOTHETA products are installed worldwide in UAVs, fixed-wing aircraft, helicopters, boats, vehicles and lower.

**THINKING SPACE SYSTEMS**

Thinking Space Systems design and build technical furniture for control rooms worldwide. Our control room consoles and technical furniture is designed to your exact requirements. All control room furniture offers a 10 year guarantee and wherever possible, conforms to BS11064 for control room design.
VOLVO GROUP GOVERNMENTAL SALES

At Volvo Group Governmental Sales, our core business is the manufacture, delivery and support of an unparalleled range of military, emergency services and security vehicle platforms; a range of platforms that are backed by an experienced, reliable and global network with over one hundred years of experience.

ZODIAC MILPRO AUSTRALIA (ZMA)

Zodiac Milpro Australia (ZMA) provide watercraft to professionals in Australia and the Pacific. Renowned for Rigid Hull Inflatable Boats (RHIB) which is a specialist area of our business. Providing a range of vessels to government and commercial organisations for 34 years, our team has over 103 combined years of experience in the marine industry.
MARINE RESCUE NSW

Volunteers saving lives on the water