

ADM DEFENCE WEEK PREMIUM EDITION

AUSTRALIAN DEFENCE MAGAZINE
SERVING THE BUSINESS OF DEFENCE



An RNZAF C-130H at the 2019 Avalon Airshow.

NIGEL PITTAWAY

NZ selects C-130J-30 Hercules

Nigel Pittaway | Melbourne

NZ Defence Minister Ron Mark has announced the selection of the Lockheed Martin C-130J-30 Hercules as the preferred option to replace the Royal NZ Air Force (RNZAF) fleet of [C-130H](#) airlifters.

Mark said the replacement of the earlier Hercules variant, the youngest of which will celebrate its 51st anniversary in service in December, was the highest priority of the NZ Government's [Defence Capability Plan 2019](#), released on June 11.

The DCP describes the current C-130H fleet as "among the most Pacific orientated capabilities of the (NZ) Defence Force.

"[They] are crucial to transporting NZ Defence Force people and equipment to operations around the region, including areas of high risk, or those which have limited accessibility for other aircraft," the DCP states.

"The C-130H Hercules will be replaced within the next five years, ensuring that this vital capability is maintained for decades to come. The replacement of

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the C-130H will provide for the full regeneration of existing Royal NZ Air Force capabilities. Immediate, high-readiness responses in the Pacific, from humanitarian and disaster relief to potential conflict or security incidents, will require a flexible and versatile tactical airlift capability. For this reason, replacement of the C-130H is the highest priority for this plan.”

The NZ Government is now seeking detailed costing and availability of five C-130J-30 Hercules, to be acquired via the US Foreign Military Sales (FMS) process.

“The current Hercules have served us well since the 1960s, but they have reached the end of the road”

“The current Hercules have served us well since the 1960s, but they have reached the end of the road, and suitable and proven replacement aircraft will need to be sourced. The current fleet is increasing in cost to maintain and is taking longer to put through maintenance,” Mark said.

“After considering a range of military air transport aircraft carefully, the Hercules has been selected, as it offers the necessary range and payload capability as well as fully meeting NZDF’s requirements.”

Mark said that formal decisions on either a contract or aircraft numbers, or costs and funding, has not yet been made, but a business case is due to be considered by Cabinet next year. According to the DCP, the project cost will be more than NZ\$1 billion.

He said the procurement process is in alignment with a recent review of Defence procurement policies and practices.

The proposed acquisition of the C-130J-30 is in response to the NZDF’s Future Tactical Air Mobility program, which calls for an Entry into Service (EIS) in 2023. A forthcoming Future Strategic Air Mobility program will seek to replace the RNZAF’s two Boeing 757-200 combi aircraft. The DCP calls for engagement with industry for the strategic airlift capability to begin in 2021, with a Request for Tender (RFT) in 2024 and entry into service in 2028. Project cost is estimated to be between NZ\$300 and NZ\$600 million.

The announcement of the C-130J-30 as the preferred solution for the Future Tactical Air Mobility requirement comes as a blow to Brazilian aircraft manufacturer Embraer, which had hoped to sell its new KC-390 multi-role airlifter to the RNZAF. The first KC-390 is expected to be handed over to the launch customer, the Brazilian Air Force, later this month, and Embraer had aimed to secure NZ as an early high-value export customer.

Raytheon and United Technologies confirm merger

Ewen Levick | Sydney

Raytheon and aerospace company United Technologies have announced a 'merger of equals' into a new company to be called Raytheon Technologies Corporation.

The mega company is projected to have a combined \$74 billion in pro forma 2019 sales and a combined annual R&D spend of approximately \$8 billion.

United Technologies, which [announced plans](#) to separate out commercial businesses Otis and Carrier last year, comprises Collins Aerospace and Pratt & Whitney. Collins Aerospace, in turn, was formed through the combination of United Technologies Aerospace Systems (UTAS) and Rockwell Collins in one of the largest acquisitions in aerospace history.

The separation of Otis and Carrier will continue as planned.

"Today is an exciting and transformational day for our companies, and one that brings with it tremendous opportunity for our future success," Tom Kennedy, Raytheon Chairman and CEO, said. "Raytheon Technologies will continue a legacy of innovation with an expanded aerospace and defence portfolio supported by the world's most dedicated workforce.

"With our enhanced capabilities, we will deliver value to our customers by anticipating and addressing their most complex challenges, while delivering significant value to shareowners."

"The combination of United Technologies and Raytheon will define the future of aerospace and defence," Greg Hayes, United Technologies Chairman and CEO, said. "Our two companies have iconic brands that share a long history of innovation, customer focus and proven execution. By joining forces, we will



Raytheon and United Technologies are set to combine into an aerospace giant.

DEFENCE

have unsurpassed technology and expanded R&D capabilities that will allow us to invest through business cycles and address our customers' highest priorities.

"Merging our portfolios will also deliver cost and revenue synergies that will create long-term value for our customers and shareowners."

"The combination of United Technologies and Raytheon will define the future of aerospace and defence"

Kennedy will be appointed Executive Chairman and Hayes will be named CEO of the new company. Two years following the close of the transaction, however, Hayes will assume both roles.

In the [June edition](#) of *ADM*, Nick Gibbs, Vice President Customer and Account Management for Collins Aerospace Australia, said that the recent merger of Rockwell Collins and UTAS was also intended to 'redefine aerospace'.

"The intent of that acquisition and then merger was to create a new company with a mission to redefine aerospace, especially in the areas of intelligent aircraft, integrated and optimized aircraft products and services, and advanced defence systems," Gibbs said.

"The strategy behind it has been for the company to be better able to solve some of our customers' toughest challenges through the breadth of technology and experience that we now have, effectively under the one roof."

PEOPLE ON THE MOVE

Matt Moran has been appointed as Executive Director of Defence West. Moran was previously a senior advisor to the Minister for Defence Industry and Minister for Defence, and was also a media advisor to PM Malcolm Turnbull. Moran deployed as an Army public affairs officer to both Afghanistan and East Timor.

MOST READ ONLINE AT WWW.AUSTRALIANDEFENCE.COM.AU



1. [What next for US Littoral Combat Ships and FFG\(X\)?](#)
2. [Researchers make PFAS breakthrough](#)
3. [Pyne takes up new post at University of SA](#)
4. [EOS delivers first Boxer remote weapons systems](#)
5. [Armed unmanned ground vehicle deployed in Estonia](#)



VADM Paul Maddison inspecting a Navy guard at Blamey Barracks during his time as Commander of the Royal Canadian Navy.

DEFENCE

Former Canadian Navy chief to run UNSW Defence Research Institute

Ewen Levick | Sydney

Former Canadian Chief of Navy and High Commissioner to Australia Vice Admiral Paul Maddison (Ret'd) has been appointed inaugural Director of the UNSW Defence Research Institute, effective this week.

VADM Maddison served in the Canadian military for 37 years and was appointed Commander of the Royal Canadian Navy in 2011. He then spent time in the private sector before serving as Canada's High Commissioner to Australia from 2015 to 2019.

"The Institute is about harnessing all of the talent at UNSW across the entire research enterprise, looking for research opportunities, providing a coordinating function, and being a champion for the national strategic imperative around defence and security," VADM Maddison said. "We want to be a significant contributor to Australia's national security and defence. There's certainly a need to see greater collaboration between all stakeholders and a more integrated approach to identifying and closing capability gaps."

According to VADM Maddison, the Institute will look to improve further on the already solid relationship between UNSW and Defence to improve communications and identify existing and upcoming opportunities to enhance ADF capabilities.

"If you look at the relationship between UNSW and Defence going back 50 years, it remains strong, it's based on trust, and I believe that folks in the defence and security community are viewing the launching of the Institute in 2018 as a

positive step forward,” VADM Maddison said.

“Now it’s about listening to the operators themselves, ensuring we have a very open and dynamic dialogue going with Defence, with the ADF, with the various capability developers and understanding where they see gaps that need to be closed. It’s about finding a way to make a difference.”

VADM Maddison’s unique experience as a diplomat and former Canadian Chief of Navy, from which he has developed an understanding of capability generation in the context of broader strategic challenges, is a key differentiator for the Institute.

“I was thrilled to be asked if I’d be interested. I asked myself initially why an Australian university would look for a guy like me, but there’s so much that Canada and Australia [have in common](#),” VADM Maddison said. “From a national security perspective, we are dealing with the exact same challenges.”

“My sense is that I bring a pretty strong experiential background to the role, having served in uniform. I understand what it means to generate and employ capability in an expeditionary sense. As Chief of Navy in Canada I was [also] very much involved in maritime research and development.”

In between those two roles, VADM Maddison also gained experience in the private sector that he hopes will help stand up a young, entrepreneurial research organisation seeking to capitalise on an ‘extraordinary’ moment in Australian military history.

“One of the things I was told is that the Institute is so young, it’s like a start-up. So they were looking for somebody with a bit of an entrepreneurial mentality,” VADM Maddison said. “What we’re observing in Australia right now is an extraordinary moment of embracing a very ambitious recapitalisation and regeneration agenda, and there’s going to be lessons to learn as those recapitalisation loops get tighter.”

With this week marking his first in the role, VADM Maddison intends to hit early home runs to build a momentum of success.

“The first thing to do is for me to understand what is happening across the entire research enterprise at UNSW, where do we have a competitive advantage, and how can I be a facilitator for bringing this more coherently together within the university to attract more attention from the wider sector,” VADM Maddison said.

“I’ve always believed that success begets success; I’ll look for early quick wins and from that we’ll see the Defence Research Institute brand shine.”

“There’s so much that Canada and Australia have in common”

How to ensure compliance with Defence export regulations

Kevin Cheney | Newcastle

The US International Traffic in Arms Regulations (ITAR) and Export Administration Regulations (EAR) are export control regulations administered by the US Government and enforceable extra-territorially. Australian businesses in areas spanning high tech military to dual use technologies must ensure their compliance with these regulations and standards.

In September 2018 we wrote an article [explaining the regulations](#) to readers. This was followed in February 2019 with an article that [detailed the specifics](#) around controlled technical data and what the Australian and US governments alike are introducing in order to protect this data. We continue this series with an article detailing some of the initial steps Australian companies can take to ensure compliance in this area.

The following are a list of compliance steps every business should adopt if they are currently handling, or forecast to handle, US-controlled technology. Using the US regulations as an exemplar, the following steps should be applicable to any business handling controlled technology – no matter the origin.

First, assign a Technology Control Officer. The appointment of a Technology Control Officer (TCO) is essential to ensure one staff member is responsible for the management of day to day operations related to controlled technology and information. The ITAR describes an Empowered Official and the importance of the TCO's role.



Accurate recordkeeping, reporting and auditing are crucial to ensuring compliance with export controls.

DEFENCE

Second, develop a Technology Control Plan (TCP). The TCP acts as the guiding process document for all aspects of managing controlled technology and information, whether it is related to ITAR or EAR. It is the only compliance measure mentioned within the regulations and as such should be considered as the key measure. The application of project specific TCPs should also be considered for larger companies where different requirements are applied between projects.

Third, educate your team through training. Ignorance is no excuse when you are handling controlled technology, so a level of awareness is essential for all staff with even the smallest of access to controlled technology. Training should be conducted on an annual basis as a minimum, and be sure to inform staff when changes to regulations impact their roles.

Fourth, establish safeguards and security controls. The protection of Technical Data is a key priority, with the US Department of State and the Department of Commerce likely to treat any such breach very seriously. It is the responsibility of the Australian company in possession of controlled technology to safeguard the data in their possession.

Fifth, higher management should be 100 per cent indebted to compliance in this area, and this should extend to a written commitment.

Sixth, audit. Internal and external auditing can ensure ongoing compliance. A comprehensive audit plan should be developed which is adaptable to change at short notice, predominantly to cater for unexpected requirements such as a suspected breach.

Seventh, a process to detect and report suspected violations should be in place. The voluntary disclosure of a breach is highly recommended by US regulators and is proven to aid in mitigating any penalties that may be imposed. Should there be any doubt,

assume it is the case and disclose the breach.

Finally, accurate and complete records should be maintained for all export control transactions, including permits, licences and destruction. A well maintained record system will allow greater traceability and is a key indicator of an organised and structured export control process.

While the above compliance steps are comparatively simple to establish and maintain, they require a commitment by a business to comply with the relevant Export Control regulations they are exposed to.

In the coming weeks this series will conclude with an article on compliance in cyber, which is vitally important in the protection of controlled technology.

Note: Kevin Chenney is a senior consultant with Goal Professional Services.

“Ignorance is no excuse when you are handling controlled technology”



Imposter Syndrome is particularly felt by women. PIXABAY

Fighting imposter syndrome

Katherine Ziesing | Canberra

It is fair to say at some point or another we've all felt like we have had to pinch ourselves in our careers, we could not believe we scored that job, got that promotion or that opportunity we dreamed about. How did it happen? Did we just get lucky?

This inability to accept our own accomplishments and capabilities is a phenomenon felt right across the world, but particularly by women in the workplace.

This perpetual self-doubt and fear of being exposed as a phony is so common it was actually coined as 'Imposter Syndrome' in the 70s. And guess what, it's still hanging around.

One of the most common symptoms of imposter syndrome is feeling anxious when given a task at work and then compensating by over-preparing to a fault. Or sitting in a high level meeting and wondering why they invited you, only to feel relieved that you weren't "found out" once it was over.

Keeping up the facade of success, you continue to work harder and harder, falling into an unhealthy, vicious cycle of inadequacy. Here are [12 signs](#) you might have Imposter Syndrome.

We spoke to the founders of [Outspoken Women](#) to find out how you can beat imposter syndrome once and for all – and take your career to the next level.

1. Fake it 'til you make it

Dig deep and work out what it is you need to overcome the imposter syndrome and then look at ways you can work on that. Where do you start? By making a list of all your strengths, achievements and what you ARE good at. Then make a list of areas you'd like to improve on and find out how you can do that.

2. Find a cheer squad

Surround yourself with positive women and men, join networking groups where you can mingle and meet other women who will back you. If you are not a big networker, look for a colleague or friend who can join you.

3. Learn how to speak up

Find the tips and tricks you need to help overcome your nerves and help find that belief in yourself that you deserve to be heard. It can be hard to find that inner voice but learn what it sounds like and take the big and small opportunities to use it.

4. Get out your roadmap

So where is it you want to go? We all have a destination in mind so work out the steps need to take for your career goals. Map the path to get there and develop a step-by-step strategy. Once you know where you want to be it becomes easier to believe you can get there.

5. Celebrate the wins

Define what success looks and feels like to you and celebrate your achievements – no matter how big or small. Take a moment to remember that you got there through your own wins. It is so important you do, because this is how you slowly knock away the imposter syndrome.

You can implement these five simple steps almost immediately by joining the next Outspoken Women masterclass. You'll take away the tools, strategies and confidence you need to stop feeling like a fraud and start kicking career goals. Not to mention you'll connect with amazing like-minded women.

The next workshop in **Adelaide** will be held on **Wednesday,**

3 July 2019. For more information just visit www.outspokenwomen.com.

PS. Outspoken Women encourage you to speak to your employer about sub-sidising the workshop. You can even download a [free email template](#) to help you make your case when approaching them.

Follow Outspoken Women on [LinkedIn](#), [Twitter](#), [Facebook](#) and [Instagram](#).

“Dig deep and work out what it is you need to overcome the imposter syndrome”



The new round will be capable of firing from the US Army's Paladin self-propelled howitzers.

US DOD

Australian industry ready for next-gen US ammo

General Dynamics Ordnance and Tactical Systems (GD-OTS) has been awarded a contract by the Pentagon valued at US\$15 million for a prototype of the 155mm XM1113 Rocket-Assisted Projectile (RAP) round.

The agreement was enabled by the US Government's expanded definition of the National Technology and Industrial Base to include Australia. In a statement, GD-OTS said it is working with Thales Australia to expand the international supply chain and make the round available to overseas customers.

"The improvement will enable field artillery systems to fire to a range of 40 kilometres"

The XM1113 RAP uses rocket technology to deliver greater thrust to the round compared the legacy M549A1. The improvement will enable current US 155mm field artillery systems to fire to a range of 40 kilometres, a 30 per cent increase. When fired from the planned future Extended Range Artillery Cannon, the XM1113 shell will achieve ranges out to 70 kilometres.

"The XM1113 RAP brings enhanced performance to the battlefield, increasing lethality and extending range for the cannon artillery warfighter. We are proud to support the US Army's modernization initiatives to provide overmatch capability to the warfighter and look forward to meeting the operational needs of our international allies," Jason Gaines, Vice President and General Manager of Munition Systems at GD-OTS, said.

Thales Australia welcomed the announcement, noting that the contract could

lead to additional exports from Thales's operations at Benalla and Mulwala.

"Thales is delighted to be associated with GD-OTS, and through our partnership to potentially offer and deliver a world-class capability to the ADF," Corry Roberts, Vice President Land for Thales Australia, said. "This announcement could lead to additional export opportunities, securing and increasing jobs and investment for Thales and our local supply chain."



US soldiers maneuver an M109A6 Paladin howitzer to prepare for a live-fire exercise.

US DOD

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Forthcoming Events

ADM EVENTS

More detail on **ADM** Events can be found on our dedicated website:

- [Women in Defence Awards](#) – 11 July 2019
- [ADM STEM and Defence Summit](#) – 14 August 2019
- [ADM Defence Estate and Base Services Summit](#) – 12 September 2019
- [ADM North Australian Defence Summit](#) – 23-24 October 2019

Paris Air Show

Date 17-23 June 2019

Location Le Bourget

Website www.siae.fr/en

The 53rd Paris Air Show will once again bring together all the players in this global industry around the latest technological innovations. The first four days of the Show will be reserved for trade visitors, followed by three days open to the general public.

ITAR, EAR and Export Controls Training

Date 25 June 2019

Location 50 Queen St, Melbourne

Website www.stickytickets.com.au

Need help understanding ITAR, EAR and Export Controls? Join us for a 1-day face-to-face training course to de-mystify the complex area of Export Control regulations. The course will address: an overview of the ITAR, EAR and DEC; how the ITAR and EAR applies to all areas of your business, including technical, operations and management; advice on employing dual and third country nationals; how to establish a compliance program within your business; licensing and permit requirements, and much more.

DTC Defence Industry Dinner & Awards Ceremony 2019

Date 04 July 2019

Location Adelaide Convention Centre

Website dte.org.au

The Defence Teaming Centre's Annual Defence Industry Dinner & Awards Ceremony is the premier event of its type and last year attracted more than 540 guests, from more than 200 companies. The event is well attended by both State and Federal Government representatives, defence primes and industry SMEs who connect and network throughout the evening.

ITAR, EAR and Australian Export Controls Training

Date 04 July 2019

Location SMC Conference Centre, Sydney

Website www.internationaltradeadvisors.com.au

International Trade Advisors is proud to offer our third annual training on US and Australian Export Controls. The one-day workshop is focused on how these regulations affect Australian industry. It will be held on 4 July 2019 at the SMC in the Sydney CBD.

The Future of Australia-Indonesia Relations in a Contested Indo-Pacific Order

Date 05 July 2019

Location Tattersalls Club, Brisbane

Website www.rusi.org.au/event-3331760

This seminar is RUSI Queensland's blue-ribbon event for 2019. Constant examination of the Australia-Indonesia bilateral relationship is required to understand the dynamic shifts in political, diplomatic and social foundations of these two close neighbours. This year provides a special opportunity to recalibrate the strengths and weaknesses in this key regional relationship.

Women in Emergency Services, Enforcement & Defence Leadership Workshops

Date 9-10 July, 24-25 July, 30-31 July

Location Sydney, Brisbane & Adelaide

Website www.eventbrite.com.au/e/women-in-emergency-services-enforcement-defence-leadership-workshop-tickets-59135290245

The Defence Force, Emergency Services and Enforcement agencies are the cornerstone of a functional society, ensuring the health, safety and wellbeing of the communities they serve. The high pressure and ever-changing nature of this work requires a unique blend of reactive and proactive leadership skills and an awareness of not only how to deal with a situation, but to ensure the safety and wellbeing of your team. This two-day workshop explores resilience, stress and confidence as weapons in the leadership arsenal, and will give you the ability to apply them to their own behaviours and work.

AIDN QLD Annual Gala Dinner 2019

Date 18 July 2019

Location Figs on Sylvan Toowong, Brisbane

Website www.eventbrite.com.au/e/2019-aidn-qld-annual-gala-dinner-tickets-61677344598

Join guests from across the Australian SME community, Defence Primes, Defence Force and industry organisations for an evening of unmissable entertainment, great food and wine. The event will feature keynote and guest speakers from Defence and Industry.

Defence Maritime Environment Working Group

Date 24 July 2019

Location National Gallery of Australia, Parkes, Canberra

Website www.business.gov.au

The Maritime Environment Working Group (MEWG) is a forum for engagement between Defence and the Maritime Industry to consider opportunities for innovation and collaboration early in the capability life cycle. It provides an opportunity to test the strength of capability requirements and proposals, to inform industry regarding future capability programs and challenges and to foster the development of Navy's capability modernisation program.

ADM Essington Lewis Awards

Date 31 July 2019

Location National Convention Centre, Canberra

Website www.defence.gov.au/casg/dplusi

ADM's Essington Lewis Awards will return to the National Convention Centre on Wednesday 31 July 2019 to recognise excellence in Defence projects. The event is limited to the first 1000 attendees wishing to network and interact with Defence and defence industry leaders, celebrate the achievements of their peers and be entertained by our celebrity MCs. This black tie gala event is not to be missed!

Defence + Industry Conference

Date 01 August 2019

Location National Convention Centre, Canberra

Website www.defence.gov.au/casg/dplusi

The Defence + Industry Conference is the premier Defence and industry conference held in the national capital. Consistently attracting in excess of 1100 delegates to hear from Defence and industry leaders discussing collaboration in the acquisition and sustainment space. Thursday 1 August will see the National Convention Centre come alive with informative, thought-provoking presentations from Defence decision makers and industry leaders, along with interactive Q&A sessions and networking opportunities.

DST Scindicate 2019: Partnering for Impact

Date 15-16 August

Location Adelaide, SA

Website Scindicate@dst.defence.gov.au

Once again, industry, universities and research agencies are invited to participate in the two-day activities which will include technology demonstrations, business matchups, workshops, briefings and laboratory tours, as well as opportunities for networking and forging new collaborations. A Next Generation Technologies Fund Showcase will be a special feature of the event.

PGCS 2019

Date 20 – 22 August 2019

Location The Canberra Rex Hotel, Canberra

Website www.pgcsymposium.org.au

Now in its 7th year, PGCS 2019 will focus on ways to build the foundations needed to create project and program success. Creating the organisational capability needed to underpin the consistent delivery of successful projects in the 2020's starts at the top. Leadership and a sustained focus are required to build a culture of excellence that can balance innovation with surveillance and accountability, encourage learning, and manage knowledge effectively.

Hunter Defence Conference 2019

Date 23 August

Location Crown Plaza Hunter Valley

Website www.trybooking.com/book/event?eid=503298

The 2019 10th anniversary Hunter Defence Conference will focus on driving collaboration between Defence Primes, NSW regional SMEs, academia and the Department of Defence. Key presentations at this year's conference will include capability development staff from Army, Navy and Air Force Headquarters, Defence Primes articulating the support requirements they will have over the coming decade from regional SMEs as well as a policy outline from the office of the new Minister of Defence.

Australasian Simulation Congress

Date 02 – 05 September 2019

Location Gold Coast Convention and Exhibition Centre, Gold Coast

Website www.simulationcongress.com

The Australasian Simulation Congress provides a focused opportunity for industry development, business growth, training, discussion and distribution of information related to Simulation, Modelling, Training and Decision Support. Simulation Australasia can help you directly engage with industry, policy makers, Government and relevant stakeholders to facilitate you and your organisation achieving the success only a truly international Congress can provide.

Australian Cyber Conference 2019

Date 07-09 October 2019

Location Melbourne Convention and Exhibition Centre

Website cyberconference.com.au

The Australian Cyber Conference 2019 will provide business leaders with insights and best practices taught by the industry's top experts through keynotes, panel sessions and live demonstrations. Attending the conference will enable you to network with these practitioners to help you better understand and manage current threats, as well as identify and prepare to meet emerging challenges.

Pacific 2019

Date 08-10 October 2019

Location Sydney Convention Centre

Website www.pacificexpo.com.au

As the only comprehensive international exhibition of its kind in the Indo-Asia-Pacific region, PACIFIC 2019 will again provide the essential showcase for commercial maritime and naval defence industries to promote their capabilities to decision-makers from around the world.

2019 Parari Australian Explosive Ordnance Safety Symposium

Date 05-07 November

Location ADFA

Website parari@defence.gov.au

This year's symposium brings together delegates from around the world to discuss the latest innovations and advances in explosives, munitions and weapons safety. International and local experts from industry, academia, military and government will share their research to explore Explosive Ordnance Safety opportunities and challenges as a community.

MilCIS 2019

Date 12-14 November 2019

Location Canberra Convention Centre

Website www.milcis.com.au

In November each year, the Defence Chief Information Officer Group (CIOG) partners with the UNSW Canberra and the Institute of Electronic and Electrical Engineers (IEEE) to present MilCIS. The annual Military Communications and Information Systems (MilCIS) Conference welcomes military and government organisations, academia, and defence industries to contribute to the future direction of military communications and information systems.

SubSTEC 5 Conference

Date 18-21 November

Location Esplanade Hotel, Fremantle

Website www.submarineinstitute.com

The 5th Submarine Science, Technology and Engineering Conference (SubSTEC 5) will be held at the Esplanade Hotel, Fremantle, WA 18th-21st November 2019. The theme of the Conference will be: 'Innovation and Investment in the Sub-Sea Environment'. SubSTEC5 will be held with the support of the Institute of Marine Engineering, Science and Technology (IMarEST).

Corrosion and Prevention 2019

Date 24-27 November

Location Crown Promenade, Melbourne

Website conference.corrosion.com.au

Corrosion and Prevention 2019 will bring together leading researchers and industry practitioners who combat corrosion daily. Diverse technical streams will showcase the latest developments in corrosion, ranging from fundamental corrosion science to hands-on application.

Land Forces 2020

Date 01-03 September 2020

Location Brisbane Convention Centre

Website www.landforces.com.au

The biennial LAND FORCES exposition is an international industry event to showcase equipment, technology and services for the armies of Australia and the Indo-Asia-Pacific. The Land Forces 2020 team is now setting about ensuring the event will achieve its goals of providing an effective platform for the exchange of ideas on key land forces issues and of taking Australian industry to the world.