

# ADM **DEFENCE WEEK** AUSTRALIAN DEFENCE MAGAZINE SERVING THE BUSINESS OF DEFENCE **PREMIUM EDITION**



The Medium SATCOM Terminal (at rear) in development for Project Currawong.

NIGEL PITTAWAY

## Boeing Defence Australia commissions Wacol assembly and test facility

Nigel Pittaway | Brisbane

**Boeing Defence Australia (BDA) this week commissioned a \$7.5 million purpose-built assembly and test facility at Wacol, southwest of Brisbane, initially to deliver the next phases of the ADF's Land 2072 Phase 2B ([Currawong](#), Integrated Battlefield Telecommunications Network [ITBN]) program.**

The 7,300 square metre facility was opened by Minister for Defence Industry Melissa Price in an official ceremony on October 28.

"The opening of these facilities today means that the ADF will have a state-of-the-art assembly and testing site right here in Queensland. This facility will play an instrumental role in delivering Project Currawong, which is a \$700 million contract with the federal government, directly to Boeing Defence," Minister Price said. "The IBTN is a network which has already revolutionised the way our defence force communicates and will continue

### IN THIS ISSUE

Boeing Defence Australia commissions Wacol assembly and test facility	<b>1</b>
The Defence export licence timeline	<b>3</b>
Global submarine programs hit obstacles	<b>5</b>
Bureau of Meteorology to bring in new forecast model	<b>6</b>
US repairs Australian transport aircraft	<b>7</b>
Ceremonial craft returned to former glory	<b>9</b>
Forthcoming Events	<b>11</b>

to revolutionise the way Defence plans and also executes its communications. It will give the defence force the advanced, agile and adaptable technology that a modern military needs, while also helping to build our sovereign capability.”

The new facility features a large Electromagnetic Interference/Electromagnetic Compatibility (EMI/EMC) chamber, together with a number of environmental test chambers, including Thermal Shock (testing equipment between – 30 and +70 degrees centigrade), Solar Radiation, Dust, Vibration and Salt facilities.

The second half of the building is dedicated to an integration area, where all the components of Currawong can be assembled and tested together, including a Thales Bushmaster, which is the prototype vehicle for the development of a Headquarters on the Move (HQOTM) capability. Eighteen HQOTM Bushmasters will be delivered in a future release of Land 2072 equipment.

**“Before this facility was built, we had to send equipment interstate and even overseas”**

“Before this facility was built, we had to send equipment interstate and even overseas to be tested, now we can do it right here, quickly and to the most rigorous standards,” BDA acting VP and MD Scott Carpendale said. “This enables us to be more agile in our development, to identify and address issues earlier and to deliver capability to the ADF faster. Currawong will not only be an outstanding capability for the Australian Army and RAAF, but also creates a global export opportunity for locally-developed products.”

Around 270 suppliers contribute to the program, more than 200 of which are from across Australia. These include local suppliers such as Hetech, Intellidesign, Masters and Young and also Nowra-based Air Affairs, all of whom had their products on display.

Darcy Rawlinson, Business Development Manager for BDA, said export opportunities include the British Army, which has Wide Area Network capability for its headquarters under its Trinity Program and the US Army, which is looking to upgrade its integrated tactical communications network (WIN-T).

In addition, there are opportunities within the ADF beyond the Land domain.

“The Navy is looking to upgrade their Maritime Tactical Wide Area Network under Sea 1442 Phase 5, so we can offer technology based on what we’ve already delivered for Currawong,” Rawlinson said. “So, we’re keen to work with Navy to develop a true Joint Communications Network for the ADF.”

Final testing for Release 2 of Land 2072 Phase 2B equipment is now in the final stages within the Wacol facility prior to deliveries to Defence beginning during the course of next year. Release 3, which includes the Bushmaster HQOTM capability, is now entering the Detailed Design Review (DDR) phase.

#### MOST READ ONLINE AT [WWW.AUSTRALIANDEFENCE.COM.AU](http://WWW.AUSTRALIANDEFENCE.COM.AU)



1. [Risk mitigation contracts signed for Land 400 Phase 3](#)
2. [HMAS Parramatta joins sanctions effort](#)
3. [The reasons behind the Land 400 Phase 3 decision](#)
4. [Defence Reserves Support Council to be overhauled](#)
5. [The north is getting busier](#)

# The Defence export licence timeline

Katherine Ziesing | Canberra

Former Minister for Defence Christopher Pyne [released](#) the Defence Export Strategy in January 2018, which aims to make Australia one of the top ten global defence exporters within the next decade. News in the past month that Australia [has dropped](#) in Defence exports rankings since that announcement needs some context.

New figures from the Stockholm International Peace Research Institute (SIPRI), the world's leading authority on global military spending, show that Australia has become the world's second largest weapons importer but has dropped to 25th in the export rankings.

Australia previously ranked as the fourth-largest importer and 18th largest exporter. It now imports more military equipment than any other country bar Saudi Arabia and exports less than Belarus, the Czech Republic and Norway.

The shift up in imports, however, is reportedly due to significant payments for the F-35 and for the Future Submarine programs rather than a wider general increase.

The government has expressed doubts over how the figures are calculated, however, with Ministers Payne, Pyne and Reynolds all raising concerns about the methodology of SIPRI over the years.

With this in mind, ADM asked the Defence Department how the figures around export licences are performing in the wake of the [ANAO announcement](#) that they will be reporting on the issue, due in August 2020. Submissions to this report opened this week and will close in February 2020.

"Defence received 1,995 export applications between 1 January and 30 June 2019," a statement from Defence said. "Of these, 1,739 were successful and four were unsuccessful. The remaining applications were withdrawn, made inactive, lapsed, required no further action, or are under assessment."

"Anecdotal  
there is strong  
dissatisfaction  
with the process"



Thales' Bushmasters are a major Australian export success story.

DEFENCE



Anecdotally there is strong dissatisfaction with the process. While compliant with the relevant national and international legislation, it is lagging behind industry expectations in terms of timeliness. Some exporters advise that customers with reasonable delivery timeframes are not pursued due to the uncertainty of timely export approvals.

"The assessment time for non-complex applications is up to 15 working days, commencing from the date a complete application is received," the Defence statement said. "For complex applications the assessment time is up to 35 working days. Between 1 January and 30 June 2019, the average time for assessing a non-complex application was 14 days, and the average time for assessing a complex application was 32 days.

"During the same period, two per cent of applications were received from universities and 16 per cent of applications were from Defence primes. The remaining applications are from other entities, including small to medium enterprises and individuals."

While Defence does not publish detailed analysis of the applications received (for example the number of joint applications between industry and academia), high-level data [can be accessed](#) to get a high level overview of the data. These figures

clearly show that 89 per cent of the applications that Defence receives are not complex. The remaining 11 per cent therefore are complex, and so take up much more time, not unlike complex programs in the acquisition/sustainment space.

It is noteworthy that where a foreign license is also required – for example where products are dual US and Australian technology – Defence will not commence processing the Australian permit until they are in receipt of the US permit. As US ITAR approvals are [also onerous](#), complex and [lengthy](#), this can effectively double the processing time and the sovereign risk to Australian companies. There are many contracts available on the international market that require a tighter turn around for licences than Defence can currently provide. This effectively removes market share from Australian companies and national economic benefit.

ADM understands there is also a fairly common practice of industry going to the minister to fast track applications for complex systems or situations where the technology is 'overtly offensive' rather than a defensive system. ADM has spoken to an SME who had huge troubles securing a mortgage for his house because the big four banks would not lend to a company/person so intimately involved in the arms trade.

Where complex applications are concerned, one of the criticisms is the lack of transparency within the processing. Applicants have no way of tracking the status of their applications and are dissatisfied with having to await responses from a generic email account. In contrast, US ITAR applicants are able to communicate with identified case officers and access the ELISA database to track the progress of the application.

**ADM Comment:** It is much easier for an Australian company to export cables or circuit boards than it is a complex weapons system like a radar (defensive) or sniper rifle (offensive), particularly to parts of the world where Australia may not have the same world view as the end customer.

**"There are many Australians that are unhappy, or at least uncomfortable, with the Defence Export Strategy"**

There are many Australians that are unhappy, or at least uncomfortable, with the Defence Export Strategy in any context. The push to become a Top 10 arms exporter does not sit well with many voters despite the economic gains that such a campaign might bring.

The fact that Australia currently sits only a single place behind Saudi Arabia as the number two importer of arms globally is also not a factoid that plays well with the public.

It is also telling that not one company *ADM* approached was willing to go on the record in regard to their experiences with DEC, fearing that biting the hand that feeds them would be counterproductive to future efforts.

*ADM* will watch with interest as to how the ANAO report on the matter comes together, with the report open to submissions shortly.

## Global submarine programs hit obstacles

Ewen Levick | Sydney

**US and Australian submarine programs have been the focus of the news cycle this week, with Senator Rex Patrick taking Minister for Defence Linda Reynolds to task over Sea 1000 delays and leadership uncertainties in General Dynamics compounding delays on the US Navy's Virginia class submarines.**

Senator Patrick used the opportunity presented by Senate Estimates to query delays to the Future Submarine system requirements review, originally due to begin back in March but now forecast to happen towards the end of the year. According to Rear Admiral Greg Sammut, acting general manager of submarines, the criteria for the review is still under assessment but the delivery date (in the mid-2030s) is still on track.



US and Australian submarines sails in formation in waters off the west coast of Australia.

DEFENCE/US DOD

Defence also found itself grilled over 'unclear labels' on funding increases worth \$3.7 billion in tables published online, promising to release 'updated tables' once they're finalised. Senator Patrick expressed frustration with the answers to his questions, saying 'all is well in the Soviet state'.

Meanwhile, leadership replacements at General Dynamics are reportedly compounding delays in the construction of USN Virginia class submarines. According to US [media reports](#), Electric Boat President Jeffrey Geiger was ousted following 'mounting frustration' within the USN that hit boiling point when welding issues were revealed in missile tubes destined for the Columbia class, Virginia class, and the UK's next generation ballistic missile submarines.

**"General Dynamics Electric Boat is also challenged by workforce shortages"**

Like the Australian program, General Dynamics Electric Boat is also challenged by workforce shortages in key production locations and a deficit of available skilled labour.

Senator Patrick has previously threatened to withdraw legislative support for the government over the issue of moving Collins class full cycle docking (FCD) to WA, which would jeopardise jobs at ASC.

"Shifting the task to WA makes little sense," Senator Patrick said. "It is likely most of the skilled workers at ASC would not move west, which would result in a great loss of Collins Submarine corporate knowledge."

ADM understands that government is due to make a decision on the future site of FCDs before the end of the year.

## Bureau of Meteorology to bring in new forecast model

Ewen Levick | Sydney

**The Bureau of Meteorology (BoM) is preparing to replace the trend type forecast (TTF) used to communicate weather trends for airfields with internationally recognised aerodrome forecasts (TAF) following a review completed in 2016.**

TTFs are used by major airlines as a landing forecast and is often used for up-to-the-minute decisions by long haul pilots prior to descending for landing. The TTFs issued by major airports are also used by smaller aircraft landing elsewhere as an indication of regional weather patterns.

The review recommended that current TTF services at airports in Sydney, Melbourne, Brisbane, Perth, Adelaide, Cairns, Canberra, Darwin, and certain Defence airfields be replaced with TAF issued every three hours rather than the usual six. The new system is reportedly simpler and removes possible ambiguity in the existing system.

**"The new system is reportedly simpler"**

The three-hourly TAF will be known as TAF3. It will be amended more frequently than the current aerodrome forecasts to provide similar responsiveness and accuracy as the TTFs they replace; this is similar to an approach used in the



The review affects major airports, both civil and military, across Australia.

NEL BOTHA

US and Canada. The Gold Coast and Hobart do not currently have a TTF service but will gain a TAF3 service under the new model.

According to a BoM spokesperson, a TAF3 Implementation Working Group will “ensure a smooth transition to a TAF3 service at all current TTF locations plus Gold Coast and Hobart airports.”

The targeted date for TAF3 implementation is 21 May 2020, subject to consultation with industry and CASA.

## US repairs Australian transport aircraft

**Eamon Hamilton | RAAF Richmond**

**A recently signed arrangement with the US has expedited the RAAF's No. 36 Squadron getting one of its C-17A Globemasters back on mission.**

The aircraft, which had suffered a cracked engine inlet during a mission to Alaska in late August, was repaired under the Aircraft Repair and Maintenance Service – Implementing Arrangement ([ARMS-IA](#)). It allows C-17A technicians from the RAAF and US Air Force (USAF) to work on each other's aircraft.

Even though RAAF and USAF C-17As are exactly the same, the maintenance workforces from both countries differ significantly in how they are qualified in their role.

The inlet repair marked the first time that USAF technicians have supported a RAAF C-17A ARMS-IA.

Last July, technicians from No. 36 Squadron supported two USAF C-17As requiring maintenance in Australia.

Warrant Officer Pete Ranson, the Warrant Officer of Engineering for No. 36 Squadron, said the crack on the engine inlet was located on the anti-ice duct – the bare metal ring on the ‘lip’ of the engine housing.

“The jet arrived at Elmendorf Air Force Base in Alaska on August 30, and the





62nd Maintenance Squadron airmen and RAAF airmen work together to repair a RAAF C-17A Globemaster at Joint Base Lewis-McChord, Washington.

USAF AIRMAN 1ST CLASS SARA HOERICHS

crack was detected a part of the post-flight inspection,” WO Ranson said.

The anti-ice area of the inlet ensures ice doesn’t form on the front of the engine housing whilst flying in moist air. Left unrepaired, a cracked inlet could have potentially catastrophic results for the engine housing and aircraft if it came apart in air.

For No. 36 Squadron, the first order of business was to decide where the repair would need to be conducted.

Australia is a signatory to the Globemaster III Integrated Sustainment Program, which sources spare parts from the nearest warehouse – including in the US. Whilst Elmendorf Air Force Base is home to a USAF C-17A squadron, the nearest replacement inlet was at McChord Air Force Base near Seattle in Washington State.

**“Without ARMS-  
IA, maintenance  
personnel  
would have had  
to be deployed  
from Australia”**

“Due to the size of the part, it was decided that it was more expedient to fly the aircraft to the inlet, versus transporting the inlet to the aircraft,” WO Ranson said. “Boeing released an engineering disposition to stop-drill the crack, and authorised a one-time ferry flight from Elmendorf to McChord.

“The amount of cracking was deemed acceptable enough to allow a short ferry flight.”

Once at McChord, maintenance personnel from the USAF’s 62nd Maintenance Squadron worked to change the engine inlet under RAAF supervision.

The engine inlet measures 1.99 metres in diameter and weighs 248.5 kilograms. While not regarded as a difficult item to remove and fit to the engine cowling, the inlet still requires a crane and a steady hand due to its size and weight.

The work was completed over three days in September and the No. 36 Squadron team was back flying on their mission.



"Without ARMS-IA, maintenance personnel would have had to be deployed from Australia to the aircraft's location," WO Ranson said.

"No. 36 Squadron is often experiencing a high operational tempo, and the longer an aircraft is unavailable, the greater the impact on other missions we're tasked in support of."

*Note: Eamon Hamilton is a Public Affairs Officer with RAAF's Air Mobility Group at RAAF Base Richmond. This article first appeared in [Defence News](#).*

## Ceremonial craft returned to former glory

**RAN's *Admiral's Barge* was recently refitted and reconditioned by the experts at High Tide, a Sydney City Marine company, earning glowing praise from the Fleet Commander himself.**

The 12-metre ceremonial vessel, built by Norman R. Wright & Sons in Brisbane and commissioned in 1993, recently returned to Serco after undergoing significant work to continue to its service catering to high ranking dignitaries and military officers.

Speaking with Warren Levin, Sydney City Marine's Director for Commercial and Defence during Pacific 2019, Fleet Commander Rear Admiral Jonathan Mead commented on the high quality of the engineering work and craftsmanship.

The Admiral reportedly made particular mention that he had 'never seen the craft in better condition' and expressed his gratitude to the shipwrights, engineers and tradespeople at Sydney City Marine (SCM).

Wes Gorman, Shipwright Manager at SCM's High Tide described the project as "a labour of love."

"It was a huge project involving both superstructural work and engineering," Gorman said. "Major mechanical parts and engine components that had been outmoded had to be re-fabricated or repaired. We also installed a new AC system."



The Admiral's Barge is one of two vessels belonging to the VIP Boat Squadron.

DEFENCE

## "It was a huge project involving both superstructural work and engineering"

"While it's not a historical vessel, it is a classic and all shipwright, painting and electrical work had to be in harmony with the original build," Gorman said. "The last stage will be the final finish coat on her superstructure which we will undertake during the next docking in 12 months."

The *Admiral's Barge* is one of two vessels belonging to the VIP Boat Squadron and is the third vessel to carry the name since the conception of the Squadron more than 30 years ago.

It is used in the escort of senior Australian officials and foreign dignitaries on ceremonial occasions such as Fleet Reviews and Australia Day commemorations in and around Sydney Harbour. The 2011 Royal visit was an historic occasion for the VIP Boat Squadron and the RAN, when the *Admiral's Barge* temporarily undertook 'higher duties' in service of Queen Elizabeth II.

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# Forthcoming Events

## ADM EVENTS

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

- [ADM 2020 Congress](#) – 19 February 2020

## 2019 Defence Innovation Hub

**Date** 04 November 2019

**Location** National Ballroom, Hotel Realm

**Website** [www.eventbrite.com.au](http://www.eventbrite.com.au)

Defence and Industry stakeholders are invited to hear from senior Defence leaders as they discuss future opportunities and challenges for defence industry innovation at the 2019 Defence Innovation Hub Annual Industry Conference. The Defence Innovation Hub Annual Industry Conference provides an opportunity for representatives from industry and defence to learn more about Defence's capability needs and priorities, as well as hear broader perspectives on Defence, Industry, and Innovation.

## NSW Defence Innovation Network's Regional Road Show

**Date:** from 04 November, 2019

**Location:** Various

**Website:** <https://defenceinnovationnetwork.com/din-regional-road-show-2019-20/>

NSW Defence Innovation Network and AIDN will be undertaking a series of small business focused regional forums across NSW. Register to attend and hear about the programs, grants, opportunities and services the NSW Defence Innovation Network (DIN) provides to the small business community across NSW. We encourage small businesses to engage with us and participate in opportunities across our networks, including DIN's seven partner universities, as well as with other state and federal agencies.

## Defence Ready Seminar Series – Defence Introduction

**Date:** 04 November 2019

**Location:** University of Newcastle

**Website:** <https://www.eventbrite.com.au/>

Hunter Defence, in collaboration with Australian Industry & Defence Network – NSW Incorporated (AIDN NSW), is launching a Defence Readiness Seminar series designed to educate, prepare, grow and mature NSW businesses who are either active in, or considering, Defence as a business opportunity. The Defence Introduction is a one day seminar that covers the basics of Defence awareness, including such things as procurement, Defence needs, innovation funding, Global Supply Chains and a description of Defence Readiness.



## GEO Week 2019

**Date:** 4 – 9 November 2019

**Location:** Canberra

**Website:** <http://geoweeek2019industrytrack.com.au/registration.php>

Technology and space companies from around the world are invited to participate in the Group on Earth Observations (GEO) 'GEO Week 2019' as part of the brand new Industry Track. GEO Week 2019 will be held in Canberra, Australia, from 4-9 November 2019.

## 2019 Parari Australian Explosive Ordnance Safety Symposium

**Date** 05-07 November

**Location** ADFA

**Website** [parari@defence.gov.au](mailto: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.

## EW Australia 2019 Canberra Symposium

**Date:** 06 November 2019

**Location:** QT Hotel, Canberra

**Website:** [aomevents.eventsair.com/aoc-convention-2019/aoc-symposium](http://aomevents.eventsair.com/aoc-convention-2019/aoc-symposium)

Held at the QT Canberra on Wednesday 6 November 2019, this thought leadership symposium will focus on "Electronic Warfare Battle Management and Manoeuvre in the Cyber and Electromagnetic Battlespace'. Attendees will have access to dedicated sessions on EW and Cyber Security, while being able to maintain connections and expand networks within the Australian EW and Cyber Defence Community.

## National Defence Industry & Workforce Skilling Summit

**Date** 6-7 November 2019

**Location** Perth

**Website** [www.eventbrite.com.au](http://www.eventbrite.com.au)

The National Defence Industry & Workforce Skilling Summit will be held in Perth from 6-7 November 2019. Join representatives from government, industry, academia and peak industry bodies, to explore the complex skills challenges facing Australia's defence industry.

## WDSN Speed Mentoring – Melbourne

**Date** 7 November 2019

**Location** Monash Conference Centre, Melbourne

**Website** [aspi.cmail19.com/t/j-l-cbady-jtirtrdtn-g](http://aspi.cmail19.com/t/j-l-cbady-jtirtrdtn-g)

ASPI's Women in Defence and Security Network and Monash Gender, Peace and Security Centre are delighted to invite you to attend this year's Speed Mentoring

event in Melbourne. Participants will have access to women mentors working across several different fields, including intelligence and national security, cyber security and STEM, academia, international aid and foreign policy, politics, media and journalism, international trade policy, NGO's and civil society organisations, industry and defence.

## Defence Ipswich Supply Chain Opportunities Symposium 2019

**Date:** 08 November 2019

**Location:** Ipswich

**Website:** [live.eventtia.com/en/defenceipswichsymposium2019/Home](https://live.eventtia.com/en/defenceipswichsymposium2019/Home)

Following the successful Queensland Defence Summit Ipswich 2018, Ipswich City Council, proudly supported by the City of Ipswich Defence Industry Development & Attraction Committee, will host our next annual event, the Defence Ipswich 2019 Supply Chain Opportunities Symposium. The event brings together defence and industry participants from government, industry and academia to exchange information and connect with key decision makers over networking and B2B sessions.

## Veterans' Film Festival

**Date** 09 November 2019

**Location** Australian War Memorial and National Sound and Film Archive

**Website** [www.veteransfilmfestival.com](http://www.veteransfilmfestival.com)

Putting the spotlight on stories about veterans, their families and the influence of warfare on our society; the festival presents a curated program of carefully selected feature and short films from Australia and around the globe. This year's program includes mainstream films, international films, retrospectives and opportunities to meet with filmmakers and content creators via 3 Q&A sessions. All films submitted to the official competition will be eligible to compete for the coveted Red Poppy Awards.

## MilCIS 2019

**Date** 12-14 November 2019

**Location** Canberra Convention Centre

**Website** [www.milcis.com.au](http://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.

## Defence Ready Seminar – Defence Business Development 101

**Date:** 18 November 2019

**Location:** University of Newcastle

**Website:** <https://www.eventbrite.com.au/>

A one-day seminar that provides valuable information to help aspiring businesses prepare for their entry to the Defence market by engaging a thoughtful strategy,

identifying tenders, following a logical response process, and making the best use of trade shows. There will also be the opportunity to meet with experienced regional Industry network leads for a tailored one-on-one consultation following the seminar from either Hunternet or AIDN NSW.

## SubSTEC 5 Conference

**Date** 18-21 November

**Location** Esplanade Hotel, Fremantle

**Website** [www.submarineinstitute.com](http://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).

## Defence Seaworthiness Symposium

**Date** 21-22 November

**Location** ADFA, Canberra

**Website** [www.defence.gov.au/seaworthiness/Contact\\_Symposium.asp](http://www.defence.gov.au/seaworthiness/Contact_Symposium.asp)

The Office of the Defence Seaworthiness Regulator is hosting the inaugural Defence Seaworthiness Symposium in Canberra 21-22 November 2019. The theme of the symposium is 'Reforming to Transform – Seaworthiness as a Defence wide priority'. Day 1 will consist of an address from VADM Michael Noonan and presentations from Capability Managers and their representatives as well as an informative panel discussion. Day 2 will consist of 2 concurrent workshops facilitated by staff from the Office of the Defence Seaworthiness Regulator. Places are strictly limited.

## World Engineers Convention

**Date** 22 November 2019

**Location** Melbourne Convention and Exhibition Centre

**Website** [www.wec2019.org.au](http://www.wec2019.org.au)

World Engineers Convention (WEC) 2019 is the peak international convention for engineers worldwide. Students will have the opportunity to meet and interact with engineering leaders who have helped influence and change the face of engineering.

## Corrosion and Prevention 2019

**Date** 24-27 November

**Location** Crown Promenade, Melbourne

**Website** [conference.corrosion.com.au](http://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.



## Space Systems Breakfast Seminar

**Date:** 28 November 2019

**Location:** Lot Fourteen, Adelaide

**Website:** <https://au.mathworks.com/>

Join us for a breakfast seminar to hear about trends in the rapidly evolving global space industry, and learn how engineers use MATLAB and Simulink for satellite and space mission modelling, satellite communications system design and satellite data analysis including deep learning. MATLAB and Simulink technical experts will provide demonstrations, best practices, programming tips and insights.

## The 26th Session of the Asia – Pacific Regional Space Agency Forum

**Date:** 26 – 29 November 2019

**Location:** Nagoya, Japan

**Website:** [www.aprsaf.org/annual\\_meetings/aprsaf26/meeting\\_details.php](http://www.aprsaf.org/annual_meetings/aprsaf26/meeting_details.php)

The 26th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-26) will be held in Nagoya, Japan from 26-29 November 2019.

## 2020

## AIDN National Defence Industry Gala Dinner 2020

**Date** 19 February 2020

**Location** QT Hotel Ballroom

**Website** [consec.eventsair.com/aidn-2020/dinner/Site/Register](http://consec.eventsair.com/aidn-2020/dinner/Site/Register)

AIDN National invite you to attend a defence industry gala event not to be missed. The dinner will include pre dinner drinks and canapes on arrival followed by a gourmet two course dinner served with premium beverages. Guests will enjoy an evening of networking, socialising and fun which includes a VIP guest speaker, presentation of the AIDN National Young Achiever Award and Silent Auction with all proceeds donated to Legacy

## Certificate IV in Responding to Organisational Complexity | Adelaide

**Date** 19-21 February, 2020

**Location** to be confirmed

**Website** [iccpm.com/events/certificate-iv-adelaide-2020](http://iccpm.com/events/certificate-iv-adelaide-2020)

Developed and offered exclusively by ICCPM (RTO number 41394), the Certificate IV in Responding to Organisational Complexity helps project leaders develop the skills and attributes they need to respond to complexity, as defined in the Complex Project Manager Competency Standards. This is a highly interactive course which introduces project leaders to useful tools and methodologies with a strong focus on the practical application of concepts to real-world situations.

## Certificate IV in Responding to Organisational Complexity | Canberra

**Date** 24-26 March, 2020

**Location** to be confirmed

**Website** [iccpm.com/events/certificate-iv-canberra-2020](http://iccpm.com/events/certificate-iv-canberra-2020)

Developed and offered exclusively by ICCPM (RTO number 41394), the Certificate IV in Responding to Organisational Complexity helps project leaders develop the skills and attributes they need to respond to complexity, as defined in the Complex Project Manager Competency Standards. This is a highly interactive course which introduces project leaders to useful tools and methodologies with a strong focus on the practical application of concepts to real-world situations.

## Asia-Pacific Security Innovation Summit

**Date** 16-17 April, 2020

**Location** Queenstown, NZ

**Website** [www.apsisummit.com/page/apsi-summit-2020](http://www.apsisummit.com/page/apsi-summit-2020)

The theme of this year's APSI summit, to be held in Queenstown on the South Island, is Strengthening Security Resiliency Through Partnerships and Alliances.

## Rotortech 2020

**Date** 16-18 June 2020

**Location** Royal International Convention Centre, Brisbane

**Website** [www.rotortech.com.au](http://www.rotortech.com.au)

RotorTech 2020 is the region's premier helicopter and unmanned flight systems showcase and forum, bringing together operators, manufacturers, suppliers, regulators and government across the Indo-Asia-Pacific. With a comprehensive three-day free industry conference program, RotorTech 2020 will also feature manufacturers technical workshops and an industry exhibition showcasing more than 100 helicopter and unmanned flight related companies.

## 43rd COSPAR Scientific Assembly

**Date** 15 – 22 August 2020

**Location** International Convention Centre Sydney

**Website** [www.cospar2020.org](http://www.cospar2020.org)

The Australian space research community enthusiastically extends the invitation to you, to meet with us for COSPAR 2020, and in so doing to forge the friendships and opportunities that will connect space research for global impact. The 2020 Assembly will combine the latest in space research findings with activities designed to enrich the global space research community – including helping equip our future leaders, and workshoping with space industry – and inspire the next generation of scientists and engineers.

## Land Forces 2020

**Date** 01-03 September 2020

**Location** Brisbane Convention Centre

**Website** [www.landforces.com.au](http://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

**2021**

## Avalon 2021

**Date** 23 – 28 February 2021

**Location** Avalon Airport

**Website**

The Australian International Airshow and Aerospace & Defence Exposition is one of Asia-Pacific's most prestigious aviation and aerospace events and the most comprehensive aviation, aerospace and defence exposition in the southern hemisphere. Avalon hosts multiple concurrent conferences and expo streams, across the spectrum of Defence, Airlines, Business and General Aviation, Sport and Recreational Aviation, Airports, MRO, Space, Unmanned Systems, Air Safety and Ground Equipment.