

ADM DEFENCE WEEK PREMIUM EDITION

AUSTRALIAN DEFENCE MAGAZINE
SERVING THE BUSINESS OF DEFENCE



A Norwegian-owned tanker burning in the Gulf of Oman.

CREDIT: AFP VIA @FANACKMENA

How Iran could win

Ewen Levick | Sydney

The government's decision to join a US-led coalition protecting shipping from Iranian interference has prompted some measured concern.

On one hand, the ADF deployment is largely symbolic. A single P8-A Poseidon for 30 days, eventually followed by a frigate and a logistics team under Operation Manitou, is essentially a political flag-lending exercise involving assets that may have been headed to the Middle East anyway.

On the other hand, a number of commentators argue that the deployment distracts from more pressing issues in the Indo-Pacific, undermines the credibility of the rules-based order, risks another military quagmire, highlights our poor fuel supplies and endorses the US 'maximum pressure' campaign on Iran that so far seems to have created more problems than it has solved.

Yet perhaps there is more we should be concerned about. If things go south,

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Iran could plausibly start winning from the opening salvo of battle.

To understand how, we need to start by questioning a common assumption; whether knowledge is actually power. Humans use [far less information](#) to make decisions than we might think, and even make better decisions as a result.

The US military once learnt this the hard way. In 2002, the Pentagon ran a massive war-game called 'Millennium Challenge' that almost exactly simulated what is now panning out in the Persian Gulf - the deployment of naval assets to thwart a rogue Middle Eastern state. The friendly Blue Team were provided with 'dominant battlespace knowledge' from an array of sensors and analytics, whilst the opposing Red Team were modelled on the Iranian military.

Yet in the game's opening 10 minutes, the Red Team, led by Vietnam veteran Lieutenant General Paul Van Riper, overwhelmed the US Navy's Aegis systems with swarms of explosive-laden speedboats and missiles and sank 19 ships, including an aircraft carrier, with a simulated loss of 20,000 American lives.

Millennium Challenge was made famous by Malcolm Gladwell, who [argued](#) that the Blue Team's attempt to lift the fog of war overwhelmed it with information and fatally slowed its own ability to make decisions.

Van Riper, meanwhile, put himself 'in command but out of control'. He limited

the information available to himself and his subordinates to enable what Gladwell called 'rapid cognition'. Van Riper's method was [not the only contributor](#) to the game's outcome, but he nonetheless exposed the strategic peril of overwhelming decision-makers with too much tactical information.

The same peril persists today. As John Blackburn and Ian McDonald [have written](#) for *ADM*, modern

Western military forces incorporate "sensor proliferation across all imaginable spectra [and] exponential growth in data generation." The challenge, as the ADF sees it, is to find better ways to get this information to where it needs to go.

Is this the latest version of the 'dominant battlespace knowledge' the Blue Team was supposed to enjoy? Could Iran take a leaf out of Van Riper's book and sink the USS *Abraham Lincoln*?

Of course, the quality of battlespace information has improved greatly since 2002. This partly offsets the negative effects of quantity, but [research shows](#) that even too much high-quality information causes a decrease in decision effectiveness. In addition, when faced with uncertainty and contrasting outcomes, people aren't good at determining whether information is high-quality and [tend to value](#) irrelevant information. And war is about as uncertain as it gets.

It is not difficult to imagine Iran's leaders creating and then exploiting uncertainty. The commanders of the Revolutionary Guard Corps have decades of combat experience across the Middle East and are [likely to play](#) their limited cards as well as possible.

So if things do go south, RAN and the US Navy may find that all the data generated by new platforms is actually a vulnerability. If Iran is able to overwhelm decision-makers with information using low-cost speedboats and missiles, as Van Riper did, it could win the opening salvos of a war.

"Too much information, no matter how high-quality, is a problem that others can exploit"

This is not to say that knowledge is actually a disadvantage. The benefits of getting the right amount of information to the right person at the right time are obvious. But the key phrase there is the 'right amount': too much information, no matter how high-quality, becomes a problem that others can exploit. It seems counter-intuitive, but perhaps we need to limit the movement of information to maintain decision superiority.

In Gladwell's book, Van Riper likens the battlespace to a chess board: even though you can see everything, victory still isn't guaranteed. The US may be risking yet another war in the Middle East because Washington is confident it has the 'dominant battlespace knowledge' it needs to win. But is knowledge really power? Or is judgement?

The grey between charity and lobbyist

Lincoln Parker | Sydney

In late 2018 Australian registered charity, China Matters, sponsored and hosted two Australian [Members of Parliament](#) in Beijing, which included an introduction to meet with [Dr Wang Huiyao](#), Standing Director of China's Ministry of United Front Work Department (UFWD). As it turned out the meeting with Wang did not take place as he was unavailable. In his place, [Dr Miao Lu](#), co-founder and Secretary General of Wang's think tank Centre for China and Globalization (CCG) did attend.

It is useful to understand the history behind, and nature of, the UFWD to better understand why any meeting with Wang or his acolytes is significant.

The history of the UFWD can be traced back to the Chinese Civil War (1945-1949), but has been re-energized by President Xi Jinping who has elevated and expanded their activities. Xi recently referred to UFWD as "[an important magic weapon for the party's victory](#)", to co-opt Chinese diaspora communities, build



China Matters hosted Australian politicians and senior Chinese leaders in Beijing.

UNSPLASH

relationships with Western enablers, and “[make the foreign serve](#)” the Chinese Communist Party (CCP) and its goals.

The important and secretive agency of the Central Committee of the CCP, public references to UFWD and its activities are scarce. It was therefore surprising to find a January 2019 Global Times article titled “Islamic communities urged to [uphold sinicization, improve political stance](#)”; which states the need for Islamic communities in China to “uphold the sinicization of their religion by improving their political stance and following the Party's leadership.”

This gives us some idea, from official Chinese media, of who the UFWD are and what their mission is.

In addition to his position with UFWD Wang is President of the Beijing based think tank CCG. Its [objective](#) is to “strengthen China’s soft power and international influence”, an objective complementary to the mission of the UFWD. CCG also claims to be independent and internationally listed. However as the Hudson Institute’s Senior Fellow Jonas Parello-Plesner warns in his [2018 article](#) *The Curious Case of Mr. Wang and the United Front*, think tank listings “should exclude completely state-run entities, or at a minimum include a warning sticker.”

“It is surprising that China Matters invited two Australian politicians to participate in a roundtable with Wang’s think tank”

So it is surprising that China Matters invited two Australian politicians to participate in a roundtable with Wang’s think tank, only informing them that it would be to discuss “[China’s international outlook](#)”, as the then federal shadow Treasurer Chris Bowen MP notes on his website. It is worth noting Andrew Parker, Sydney based partner at PwC and board director at China Matters [attended](#) along with founder of China Matters Linda Jakobson.

Opportunity lost

It was widely known before this meeting, from numerous Australian [investigative reports](#), that Wang, or his Secretary General Dr Lu, would have been uniquely placed to discuss documented examples of Beijing-linked [political donors](#) buying access and influence, Australian [universities](#) being co-opted as “[propaganda vehicles](#),” and Australian-funded scientific research being diverted to aid the modernization of the People’s Liberation Army (PLA). We don’t know if any of these specific issues were raised.

It was precisely because of these concerns that the Australian Parliament passed the [foreign interference](#) laws in early 2018 (prior to this meeting), championed by then Prime Minister Malcolm Turnbull.

Less than a year later, politicians are being sponsored and paid for by an Australian charity to attend meetings in Beijing with a powerful Chinese Communist Party and UFWD director.

Charity?

China Matters is registered as a [charity](#), with all the rights, benefits and obligations that status affords charitable organisations in Australia. Its [Constitution](#) states that the “Objects for which the Company are established are: to engage in

activities to encourage a more informed, balanced and realistic public discourse about China and its implications for Australia, targeting a broad audience of educated citizens – businesses, government agencies, universities and schools.”

ADM provided a right of reply to the CEO of China Matters, Alistair Nicholas. Mr Nicholas did not directly reply to the question of how China Matters operates as a charitable organization and how it is for the public benefit. He simply referred us to the [report](#) provided to the Australian Charities and Not-for-profits Commission (ACNC).

When asked whether China Matters were aware of Dr Wang Huiyao's position with the United Front Work Department prior to establishing the meeting, CEO Alistair Nicholas replied:

“It is important that we engage with and try to understand these individuals”

“We are, however, well aware that individuals we engage with may have roles or affiliations within the structure of the Communist Party of China (CPC) - that is the nature of the PRC's political system. It is important that we engage with and try to understand these individuals and the way they see the world and Australia, otherwise we cannot understand the PRC.”

One could argue that it is abundantly clear as to how the UFWD views the world, the background and stated mission of their organisation is there for all to see. The question should be, is it in the public benefit for a registered Australian charity to be footing the bill and brokering meetings with United Front leaders?

It may be time for Australia to begin a debate about what constitutes a charitable organisation.

PEOPLE ON THE MOVE

Professor Anton Middelberg has been appointed the University of Adelaide's new Deputy Vice-Chancellor and Vice-President (Research), following an extensive national and international search. The role is critical to SA's economy, with the University of Adelaide involved in areas of strategic priority including defence and cyber security.



A young girl waves the Samoan flag as HMAS *Choules*'s MR-60R Seahawk helicopter prepares to take off.

DEFENCE

Pacific step-up won't work without domestic energy shift

Ewen Levick | Sydney

The government's efforts to promote its 'step-up' in the Pacific are continuing, with six ministers set to visit PNG next week in the largest such delegation in a decade.

Meanwhile, Army engineers have arrived in East Timor for the sixth iteration of Exercise Hari'i Hamutuk and HMAS *Choules* recently docked in Samoa for a week of diplomacy and cultural engagements.

The visits come shortly after Prime Minister Scott Morrison defended Australia's dependence on coal-fired electricity generation to an audience of Pacific nations facing extinction as a result of global carbon emissions, [30 per cent](#) of which come from coal-fired electricity generation.

"What is the relevance of Australia's ongoing protestations in the forum?" former president of Kiribati Aote Tong [asked](#). "If it's going to continue with that line, it poses a danger to the other countries in that forum."

"How can you justify being part of a family and part of a group which you're trying to destroy?"

Although the government is keen to avoid the idea that Australia's step-up in the Pacific is driven by Beijing's increasing regional presence, the strategic imperative is undeniable. China has been expanding its regional scientific and economic presence with dual-use capabilities and investing heavily in a range of development programs, stoking fears that it will leverage financial debts to gain a military base south of the equator.

China is, however, the single largest contributor to global carbon emissions, accounting for [a quarter](#) of all global CO2 output in 2018. As its emissions increase it is likely to suffer similar diplomatic repercussions in the South Pacific. This should provide a strategic opportunity for Canberra to outmanoeuvre Beijing by leading on domestic renewable energy policy as both jostle for influence.

Canberra does appear to be aware of the opportunity. PM Morrison unveiled a half-billion-dollar funding package to improve the Pacific's resilience to climate disasters and has set aside \$140m to prompt commercial investments in low

emission projects in the Pacific. Yet Australian money no longer carries the same weight in a region benefitting from Chinese investment and diplomatic outreach.

"No matter how much money you put on the table, it doesn't give you the excuse to not to do the right thing, which is to cut down on your emissions, including not opening your coal mines," Tuvalu's PM Enele Sopoaga said. "That is the thing that we want to see."

Meanwhile, Fijian PM Frank Bainimarama [told the Guardian](#) that PM Morrison's stance on the climate was 'very insulting and condescending', describing the meeting as one of the most frustrating days of his life.

"I thought Morrison was a good friend of mine," PM Bainimarama said. "Apparently not."

"China never insults the Pacific. [Australians] keep saying the Chinese are going to take over. Guess why?"

It is becoming clear that throwing money at the problem is no longer enough: Australia will need to shift its domestic energy policies to ensure the Pacific step-up achieves its strategic goals.

"No matter how much money you put on the table, it doesn't give you the excuse to not cut down on your emissions"

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First upgraded KC-30 returns to Australia

The first RAAF KC-30A tanker to receive Identification Friend or Foe (IFF) upgrades under Project Air 90 has returned to Australia.

The first modification was completed in Spain under contract with Northrop Grumman and Airbus. The remaining fleet of five aircraft will be modified in Australia.

Project Air 90 adds an IFF Mode 5 and an Automatic Dependent Surveillance – Broadcast (ADS-B) capability onto the KC-30A fleet.

In hostile environments, IFF improves safety through the superior identification of platforms, which reduces the risk of friendly fire. Mode 5 IFF is the latest version of NATO's friend-or-foe identification system. It is set to be rolled out across all RAAF aircraft to ensure their continuing operation in military and civilian airspace.

ADS-B is the new transponder format being used by civilian and military air traffic control services. It improves safety by enhancing situational awareness, allows self-separation with other aircraft, and improves air traffic management. The entire RAAF fleet is going through the program to fit ADS-B to bring the fleet in line with international regulation responsibilities.

According to Defence, the workload for crews will not change significantly as a result of Air 90, since the modification has replaced and upgraded equipment to the latest standards.

The first in a fleet-wide upgrade of identification transponders on C-130J Hercules transport aircraft was completed by the RAAF in May with the Hawk LIFCAP program also encompassing the technology upgrade.



A RAAF KC-30 aircraft prepares for take-off prior to an air to air refuelling mission.

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Frontline Manufacturing moves into new plant

Frontline Manufacturing has just completed a move into a new defence-orientated metal fabrication facility.

In a statement, the company said the new facility is “a far cry from the constrained premises it has occupied for the last decade.”

The new site in Meadowbrook has allowed the commissioning of major new equipment and fully integrated machining. The new capabilities will allow the company to expand its capacity to supply ‘heavy’ metal structures into major land and naval defence projects.

“Land 121 provides the bulk of our work at present supplying into Haulmark Trailers and Holmwood Highgate,” a spokesperson said. “We have recently [commenced work](#) for Rheinmetall for Land 400 Phase 2, and support other organisations such as Enquest.”

The company benefited from a Queensland Government Small Business Grant, which funded a professional factory planning firm. The firm’s proposed layout was based on lean manufacturing and industrial engineering principles. This included modular welding bays that quickly scale up depending on the project size.

Multiple overhead cranes that can operate in tandem to double load capacity has allowed the company to win projects it would “never have contemplated in the previous premises.”



Frontline Manufacturing has completed a move into a new plant.

FRONTLINE MANUFACTURING

“We didn’t feel we could wait until we ‘won’ the work before taking the steps required to do the work”

“With the expectations and ambitions the overseas primes bring to their Australian projects, we didn’t feel we could wait until we ‘won’ the work before taking the steps required to do the work,” Director of Frontline Daniel Green said.

“Rather, in consultation with our customers and potential customers we have made our best assessment of what the company needs to be able to deliver to support them, and then executed accordingly.

“It’s been a huge undertaking, but it is exactly what we believe is expected of companies such as ours to realise the opportunities provided by the Commonwealth under the DICP.”

“Whilst the plant is fully operational, all staff are looking forward to our major reopening event on the 7th November with our customers and government representatives,” Plant Manager Nathan Sutton said. “The whole build, commissioning and move has been so hectic, that it’ll be nice to take a moment to let it all sink in. Then it’ll be back to work.”

MOST READ ONLINE AT WWW.AUSTRALIANDEFENCE.COM.AU



1. [HMAS Hobart in first local missile firing](#)
2. [China has plenty of its own problems](#)
3. [RAAF P-8As to get an extra workstation](#)
4. [Defence projects have low economic benefits: ASPI](#)
5. [Austal confirms Cape class deal with Trinidad and Tobago](#)

Defence and Darumbal mark land use agreement

A ceremony has been held in Rockhampton to mark the registration of an Indigenous Land Use Agreement between Defence and the Traditional Owners of the Shoalwater Bay Training Area, the Darumbal people.

The Agreement recognises the 20-year relationship between Defence and the Darumbal people as an important milestone in the expansion of the Shoalwater Bay Training Area under the Australia-Singapore Military Training Initiative (ASMTI).

Minister for Defence Linda Reynolds said the agreement will have enormous benefits to both the Darumbal Traditional Owners and the ADF for generations to come.

“The Shoalwater Bay Training Area is one of Australia’s most important Defence training areas, and its expansion under the Australia-Singapore Military Training Initiative will help meet the future needs of the ADF, enhance Australia’s Defence relationship with Singapore and support economic growth in the region,” Minister Reynolds said.

“I would like to thank and acknowledge the Darumbal Traditional Owners for their support in making the Indigenous

Land Use Agreement a reality.”

Member for Capricornia Michelle Landry said the signing of the agreement was an important milestone for the Darumbal people.

“The Indigenous Land Use Agreement puts in place mechanisms that will

“It provides certainty around land access and the protection of our cultural heritage”



Yagany Cox-Hatfield from the Gurridalla dancers perform at the Indigenous Land Use Agreement between Defence and Darumbal.

DEFENCE

continue Defence's collaboration with the Darumbal Traditional Owners on cultural heritage and future access to the Shoalwater Bay Training Area," Assistant Minister Landry said.

Warren Malone, Chair of the Darumbal Registered Native Title Body Corporate, said this agreement is a tangible demonstration of the Darumbal's continuous connection to all land and waters of the greater Rockhampton area, including the Shoalwater Bay Training Area.

"It provides certainty around land access and the protection of our cultural heritage and we look forward to continuing our enduring relationship with Defence," Malone said.

Australian rubber company gains traction in the US

An Australian company is set to present to the world's two biggest military shows in the US after successful testing its fire-retardant rubber with the US Army and Australian Army.

Sydney-based TCRT Systems will showcase its Linagard Ballistics Fire Retardant (FR) rubber at the AUSA Exposition in Washington in October, and the NSSF (National Shooting Sports Foundation) Shot Show in Las Vegas in January.

TCRT Systems Chief Technical Officer Clive Blair said the highly-technical rubber, which is manufactured for TCRT Systems by Weir Minerals, has undergone successful trials with the US Army Tank Automotive Research, Development and Engineering Centre and the US Army Research Laboratory at the Aberdeen Proving Ground, including the use of tracer and incendiary rounds.

"As a specialist company in developing products for both military and industrial use, we've worked with Weir Minerals to create a rubber that we think is



Linagard Ballistics FR rubber was initially intended to be used as shooting range curtains and wall linings.

TCRT

revolutionary for military and industrial use,” Blair said.

“In addition to being fire retardant, it’s also non-toxic, and UV and ozone stable, making it ideal for outdoor applications, particularly environmentally sensitive ones.

“There really is nothing else like it anywhere in the world. We’re proud to be invited to the US to showcase the rubber, and reinforce how Australia can lead the way globally in technological development.”

**“There really is
nothing else
like it anywhere
in the world”**

Linagard Ballistics FR rubber was initially intended to be used as shooting range curtains and wall linings to reduce the number of incidents where shooting ranges and shoot houses have caught alight and suffered fire damage.

According to Blair, a key accelerant in the shooting range fires has been the rubber used in each of these environments.

“Progressively, the military and shooting ranges are demanding that any rubber used in such environments must demonstrate flame retardant characteristics,” Blair said.

The US Army is utilising Linagard Ballistics FR rubber on the XM Spartan, a two-person tracked vehicle.

Forthcoming Events

ADM EVENTS

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

- [ADM Defence Estate and Base Services Summit](#) – 12 September 2019
- [ADM North Australian Defence Summit](#) – 23-24 October 2019
- [ADM Outspoken Women Masterclass](#) – 23 September 2019

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.

Synthetic Environment Working Group (SEWG)

Date 06 September 2019

Location Gold Coast Convention and Exhibition Centre

Website www.defence.gov.au

The Synthetic Environment Working Group (SEWG) 2019 is a one-day Conference/Working Group sponsored by the Department of Defence, ADSTC and managed by the Simulation Governance Directorate.

Defence Industry Security Program (DISP)

Date 11 September 2019

Location Darwin

Website www.business.gov.au/Events/Defence-Industry-Security-Program

The Defence Security and Vetting Service will hold a business information session on the new Defence Industry Security Program (DISP) in Darwin on 11 September 2019. It's part of an NT Government Defence and Cyber Ready Briefing. The briefing also features a Centre for Defence Industry Capability and Prime Contractors Panel on local defence supply chain requirements for cyber security.

IFRS Annual Dinner 2019

Date: 12 September 2019

Location: National Gallery of Australia

Website: <https://regionalsecurity.org.au/event-3473293>

The Institute for Regional Security's Annual Dinner is widely recognised as the premier national security networking event in Australia each year, attracting the most senior national security leaders from Australia, Japan and the US, with government, industry and academia. This year's speakers include Minister for Defence Linda Reynolds, US Ambassador for Australia Arthur Culvahouse, and Japanese Ambassador to Australia Reiichiro Takahashi.

Defence Industry Trade Show Preparation Workshop

Date: 18 September 2019

Location: Cairns Civic Reception Rooms

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

AIDN QLD in partnership with DEFNQ would like to invite you to attend the ASC Shipbuilding & CASG Industry Briefing Opportunities for Australian Industry in Cairns. Wayne Cooper, Director of Industry for the Hunter Class Frigate Program will provide an overview of the Government's broader continuous naval shipbuilding strategy, and provide an update on the Hunter Class Frigate Program and the Government's commitment to maximising Australian Industry Capability in the program. ASC Shipbuilding will also provide a supply chain update detailing the plan and opportunities for Australian industry.

Australian Naval Institute's Goldrick Seminar

Date: 18 September 2019

Location: ADFA

Website: www.trybooking.com/BDYHF

The 2019 ANI Goldrick Seminar will discuss defence issues associated with the maintenance of Australia's maritime trade. Speakers will be drawn from senior levels of Defence, academia and industry. As in previous years, the theme – Maritime Trade and its Implications for Australia's Defence – was selected by the Chief of Navy; an outcomes report will be provided to the Chief of Navy and it is anticipated that the proceedings will be subsequently published by ACSACS.

Understanding Chinese Strategy for the 21st Century

Date: 18 September 2019

Location: Victoria Barracks, Brisbane

Website: www.rusi.org.au/event-3491733

Join us to hear deeply researched insights into China's strategic calculus in the region and how this will affect Australia's security. Professor Evans is a leading expert in strategy and leadership whose expertise is highly sought-after by international institutions, especially the US military. His command of military history and the extrapolated implications for our strategic considerations are peerless in Australia.

The Future Australian Army: An Evening with Lieutenant General Rick Burr

Date 19 September 2019

Location 215 Queen Street, Brisbane

Website tattersallclub.com.au

Don't miss this opportunity to hear how the future Australian Army is being shaped now by its Chief, Lieutenant General Rick Burr. Listen to General Burr outline the type of Army Australia will need to meet the threats and challenges of a dynamic Indo-Pacific strategic landscape, and how he intends to position the Army satisfy government-directed policy objectives and protect Australia's national interests.

ASDEFCON TD/IP Courses

Date 23-24 September 2019

Location: WA, Vic, NSW

Website defence@majortraining.com.au

Defence have begun delivery of its short course on the new Technical Data / Intellectual Property (TD/IP) clauses in its ASDEFCON suite of templates. The new clauses provide far more flexibility and scope to deal with TD/IP issues but require a better understanding from both Defence and Industry. Defence is delivering this course around Australia and offering a number of spaces to Defence Industry: 6-7 August 2019 in WA: 28-29 August 2019 in Victoria: 23-24 September 2019 at RAAF Richmond: 29-30 October 2019 and 24-25 February 2020 in the ACT.

Capability Life Cycle (CLC) Management

Date 23-25 September 2019

Location Canberra, Brisbane, Sydney, Melbourne, Adelaide, Perth

Website unsw.adfa.edu.au

This course provides attendees with an overview of how Australian Defence conducts business with regard to development and management of capability. Attendees from within the Australian Defence Organisation, other government agencies and defence industry are provided with an opportunity to develop an understanding of the principles, processes, practices and artefacts associated with the Australian Defence Capability Life Cycle.

Army Innovation Day 2019

Date 25 September, 2019

Location Adams Auditorium, ADFA

Website www.army.gov.au

AID19 will be held on 25 September and the purpose is for selected respondents to pitch their proposed innovations to assessors, Capability Managers and Defence Innovation Hub personnel. Respondents may also be able to verify, validate and clarify their Request for Proposal response. Request for Proposal submissions closes on 3 September and on 12 October respondents will be notified of outcomes.

2019 SIA Nuclear Seminar

Date 02 October 2019

Location Australian Strategic Policy Institute

Website www.submarineinstitute.com/events/Nuclear-Seminar

The Submarine Institute of Australia (SIA) is Australia's premier organisation for the promotion of submarine matters. The SIA is hosting a single day seminar, aiming to stimulate national discussion on a holistic approach to a nuclear industry.

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.

ITAR/EAR/AU Export Control Awareness – Brisbane

Date 15 October, 2019

Location Brisbane

Website www.stickytickets.com.au

Join us for a one-day face-to-face awareness course covering the unique aspects, agreements and regulations for US and Australian Export Controls. Whether you are handling ITAR or EAR controlled technology as a current or prospective contractor, or looking to export your Australian controlled defence article, you must ensure you comply with regulations at all times.

Women in A/AA Melbourne Summit 2019

Date 16 October 2019

Location Level 17, 501 Bourke St.

Website www.aviationaerospace.org.au/events

This year, the summit will focus on how we, both men and women can engage the future through STEM and how we can encourage a more inclusive and diverse workforce. Discussing the barriers and opportunities for women in the industry, we will ask the tough questions and address how we can close the gender gap. What will it take for us to encourage more women to study STEM and what will take for us to encourage more women to pursue a career in STEM?

Williams Foundation Seminar – The Requirements of Fifth Generation Manoeuvre

Date 24 October 2019

Location National Gallery of Australia

Website www.williamsfoundation.org.au/event-3161281

Since 2013, the Sir Richard Williams Foundation seminars have focused on building an integrated fifth generation force. The seminar in October 2019 is titled 'The Requirements of Fifth Generation Manoeuvre' and will examine the differences and potential gaps in how the ADF must equip and organise for multi-domain operations.

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.

EW Australia 2019 Canberra Symposium

Date: 06 November 2019

Location: QT Hotel, Canberra

Website: <https://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.

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.

2020

CIVSEC 2020

Date 24-26 April 2020

Location Melbourne Convention and Exhibition Centre

Website www.civsec.com.au

CIVSEC 2020 International Civil Security Congress and Exposition is your gateway event to the growing Indo-Asia-Pacific civil national security environment. CIVSEC 2020 is a premium international event with exceptional opportunities to reach key driver organisations in an evolving, tech-savvy regional marketplace.

Rotortech 2020

Date 16-18 June 2020

Location Royal International Convention Centre, Brisbane

Website 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.

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.