

IN THIS ISSUE

Air Force Looks Towards KC-30A Upgrades	1
ADM Cyber Security Summit 2016: cyber still lacks direction	2
Mentoring program for female engineers and project managers begins	3
Poll indicates support for Defence ops, strategy	4
F-35 program insiders	5
Debating Defence: Payne and Conroy go head to head ...	6
Navantia increases Australian footprint	8
Forthcoming Events	9

CONTACT DETAILS

EDITOR

Katherine Ziesing

T: 0419 014 308

katherineziesing@yaffa.com.au

ONLINE EDITOR

Patrick Durrant

T: 02 9213 8249

patrickdurrant@yaffa.com.au

PUBLISHER

Judy Hinz

T: 07 3348 6966

judyhinz@yaffa.com.au

CONTRIBUTORS

Nigel Pittaway

M: 0418 596 131

nigelp@iprimus.com.au

STUDIO MANAGER

Lauren Esdaile

laurenesdaile@yaffa.com.au

SUBSCRIPTIONS

Martin Phillpott

Toll Free 1800 807 760

martinphillpott@yaffa.com.au

PUBLISHED BY

Yaffa Media Pty Ltd

17-21 Bellevue Street, Surry Hills NSW 2010

T: 02 9281 2333

www.greatmagazines.com.au

ADM CANBERRA OFFICE

Tel 02 6203 9535

PO Box 4783, Kingston ACT 2604

ADM BRISBANE OFFICE

T: 07 3348 6966

PO Box 9165, Wynnum Plaza Qld 4178

www.australiandefence.com.au

SUBSCRIPTIONS

GREATMAGAZINES.COM.AU

CALL 1800 807 760

EMAIL.SUBSCRIPTIONS@YAFFA.COM.AU

Copyright © 2016



All material appearing in ADM is copyright. Reproduction in whole or in part is not permitted without permission in writing from the publisher. The publishers accept sole responsibility for the contents of this publication, which may in no way be taken to represent the views of the Department of Defence, the Australian Defence Force or any other agency of the Commonwealth of Australia.



DEFENCE WEEK



RAAF KC-30A Multi-Role Tanker Transport aircraft conduct their first air-to-air refuelling boom contact in May last year.

© DEFENCE

Air Force Looks Towards KC-30A Upgrades

Nigel Pittaway | Munich

The Royal Australian Air Force is looking at significant capability upgrades to its KC-30A multi-role tanker transport (MRTT) an Airbus Defence and Space executive has revealed.

Airbus DS head of Engineering Miguel Ángel Morell said that the RAAF is interested in two key developments the European manufacturer is developing for its international MRTT program.

The company is developing an automatic air to air refuelling system for the KC-30A's Aerial Refuelling Boom System (ARBS), which Morell says is to remove the requirement for complex manual boom operations, reducing risk and permitting an increased number of receivers to be supported during each mission.

Airbus DS has completed simulator testing of the automatic system and some in-flight evaluation (without contact) has been conducting using a Portuguese Air Force F-16 fighter. Morell said that the company will begin an incremental flight test campaign at the end of the year and will culminate in fully automatic contacts.

The second development is the integration of Link-16 Joint Range Extension (JRE) which will allow the KC-30A to act as a Link-16 data relay to enable information to be accessed by tactical aircraft which may be operating beyond line of sight (BLOS).

Morell said that the JRE upgrade will offer the relay capability via IP SATCOM (joint range extension applications protocol, JREAP-C) or through UHF ►►

“The first aircraft to be fitted with JRE Link-16 will be an MRTT for France and the second customer is likely to be Australia.”

DAMA (demand assigned multiple access) radio (JREAP-A). The system has completed laboratory integration testing and will shortly begin flight testing aboard one MRTT aircraft fitted with wideband SATCOM.

“The first aircraft to be fitted with JRE Link-16 will be an MRTT for France and the second customer is likely to be Australia,” Morell said.

In associated news, Airbus DS has placed an order for the development and provision of a Full Flight Simulator (FFS) to support the training of crews on the A330 Multi Role Tanker Transport. The contract, signed with Indra of Spain, covers the installation at the Airbus DS International Training Centre in Seville of a Level D FFS, which is certified to qualify pilots on the A330 MRTT with zero flight time in the real aircraft.

In addition to providing pilot flight-training, the new FFS, which will enter service in the second quarter of 2018, will permit the training of pilots in hose-and-drogue refuelling operations, and to act as a receiver from other tankers.

“It offers the opportunity of greatly reducing the amount of aircraft flight hours required to train air-to-air refuelling (AA) crews,” head of Military Aircraft Services, Stephan Miegel said.

“We are also examining the most cost-effective way to link the FFS to a Part-Task Trainer that would allow training of complete crews on AAR using the refuelling boom system in addition to hose-and-drogue.”

Disclaimer: The author travelled to Munich as a guest of Airbus Defence and Space.

ADM Cyber Security Summit 2016: cyber still lacks direction

Katherine Ziesing | Canberra

There were three clear themes that emerged from proceedings this year: the overarching strategic research framework into cyber is unclear, insider threats are huge, and finding/growing cyber warriors is a big challenge.

A range of military, government, academic and industry speakers shared their experience and insights over the two-day event. USAF Colonel Rizwan Ali, NATO’s branch head of Cyber Defence explained how cyber had predominantly civilian pursuit but the military had developed a useable framework in the bureaucratically challenged group.

Closer to home, Air Vice Marshal Andrew Dowse (head of ICT operations and J6 in CIO Group) and Chief of Army’s new cyber advisor/Commander of 6th combat support brigade Brigadier Marcus Thompson spoke on how the IT and Army organisations are dealing with the issue. AVM Dowse said that there had roughly been 50,000 incidents per year on the Defence network, a steady figure over the last two years but expects ►►



“You can have every shiny box on the market but if you don’t have the right people and processes you’re wasting time and money.”

that this will increase as threat landscape changes rapidly and constantly.

“Cyber threats are able to reach Australia in a way that other domains cannot,” BRIG Thompson said as he acknowledged that Army is still quite new in cyber space and is working with its sister services and other government agencies alongside industry to build a new generation of cyber warriors that may or may not be uniform.

Wallace Sann of Forescout Technologies was eloquent on the need to combine good technology with the right people and processes.

“You can have every shiny box on the market but if you don’t have the right people and processes you’re wasting time and money,” he said.

Other industry presentations from Raytheon, BAE Systems and Thales looked at the difficult task of mapping the cyber landscape as the same threat can be given multiple names across the globe. They also discussed coping with insider threats in a post-Snowden world and how the nature of an interconnected business means better productivity but also more security risks.

The overwhelming theme from academics, DST Group, and industry groups was the need for more focused research and development in the cyber area.

“How do we know where to spend the money and lead long term research when we don’t know the questions?” UNSW’s director for the Australian Centre for Cyber Security Professor Jill Slay asked.

For those who aren’t sure where to start eating the elephant that is cyber security and what your organisation could or should be doing, Peter Sandilands, vice chair of the Australian Information Security Association, provided an excellent explanation of compliance versus risk management and some helpful tools to work out what is important. His slides, along with the other publicly releasable presentations, can be found [here](#).

Mentoring program for female engineers and project managers begins

Katherine Ziesing | Canberra

A partnership between a number of Defence companies and agencies, The Future Through Collaboration (TFTC), has launched its 2016 mentoring program for young female engineers and program managers.



© KINETIC RECRUITMENT

Building on the success of the pilot program last year that saw 11 mentors and mentees matched up, the programs this year is hosting 30 mentors and mentees through a guided programs to grow the skills of all parties.

“We can’t tackle diversity on our own,” Alex Parkin, engineering manager at Airservices Australia said at the Canberra launch. “We need to build links and partnerships across industries and disciplines.”

As a formal mentoring program, mentors and mentees are matched based on their goals, objectives and professional backgrounds. Through the course of 12 months they will meet on a monthly basis to discuss and plan how to actualise their goals.



MOST READ ONLINE THIS WEEK

www.australiandefence.com.au

1. [HMAS Adelaide embarks the Marines](#)
2. [F-35 builds capability for defence industry](#)
3. [AMV35 breaks cover](#)
4. [Lynx for Land 400 Phase 3](#)
5. [Land 400 Phase 2 down select imminent](#)



“The program provided me tools and guidance to go forward but also relationships that I will carry with me.”

Participants are provided with an induction training session every quarter and will be supported throughout the year with facilitated group sessions to encourage their success.

AltusQ, an expert in leadership, business coaching and mentoring programs, delivers the program training and facilitated sessions.

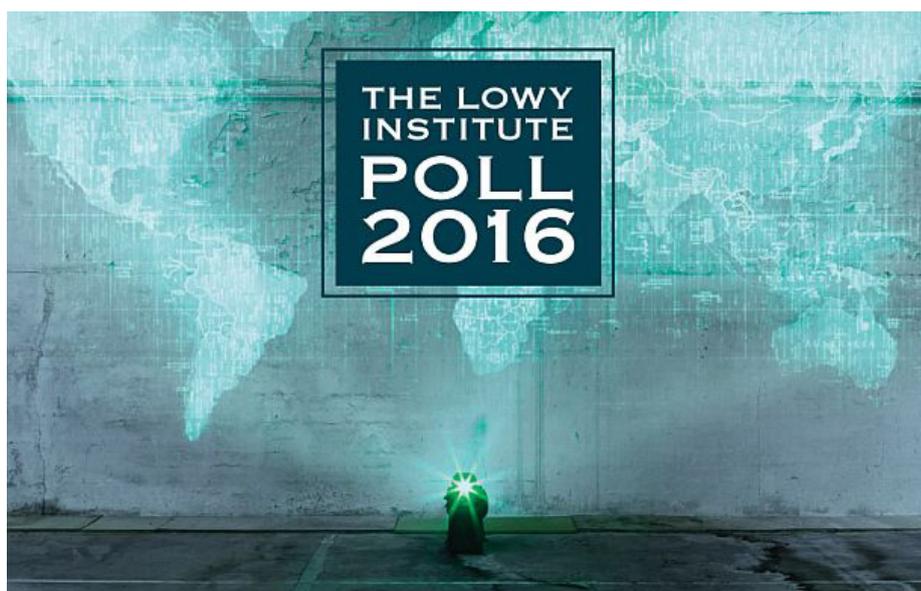
One of participants from the pilot program Caroline Chai of BAE Systems said the program had “a profound impact on her”.

“The program provided me tools and guidance to go forward but also relationships that I will carry with me,” Chai told the new program entrants. “TFTC is collaboration in action in industry.”

Participants in the program this year include Raytheon, Airservices, BAE Systems, Navy, Jacobs, Kinetic Recruitment, QinetiQ, the Department of Defence, and Lockheed Martin.

Poll indicates support for Defence ops, strategy

Patrick Durrant | Sydney



This is the twelfth annual Lowy Institute Poll.

FOLLOW ADM
ON FACEBOOK

AusDefMag



In its 12th outing the annual Lowy Institute Poll provided yet another interesting snapshot of the feelings of Australian on important issues, including defence and security.

In a year of significant defence announcements and operations, and with heightening tensions in our region, the results make for good reading.

The ADF's operations against Islamic State in both Iraq and Syria continue to be supported by the majority, with 69 per cent in favour of the former and 59 per cent in favour of the latter.

Given the high profile of the Sea 1000 future submarine project in the past year it comes as no surprise that 70 per cent of Australians supported the policy of a predominately local build, “even if this will cost us more”. Only 26 per ▶▶

“In a year of significant defence announcements and operations, and with heightening tensions in our region, the results make for good reading.”

Flight Lieutenant (FLT) Ben Mason and Sergeant (SGT) Justin Kelly in front of a Dutch F-35A aircraft when they accompanied the Royal Netherlands Air Force (RNLAf) on their deployment to the Netherlands in June 2016.

FOLLOW ADM
ON TWITTER

@austdefence



cent said the “the submarines should be built at the best possible price, even if this means they are predominately built overseas”.

China (30 per cent) has pipped Japan (25 per cent) for the first time as our “best friend in Asia” with this view even more pronounced among 18-44 year-olds.

With regard to which relationship – the US or Chinese – was more important, China has closed the gap with both now in deadlock as far as Australians are concerned.

Once again younger Australians perceive China to be more important while an equal proportion (51 per cent) of older Australians above the age of 45 consider the US as the number one partner.

There was a stark response to the question of whether Australians were “in favour or against Australia conducting freedom of navigation operations (FONOPs) in an effort to ensure freedom of navigation in the South China Sea”. Seventy four per cent voted in favour with only 20 per cent against.

The full results of the poll can be viewed [here](#).

F-35 program insiders

Two Royal Australian Air Force (RAAF) members have recently taken part in the assessment of the first international F-35 deployment in the Netherlands.



Flight Lieutenant Ben Mason and Sergeant Justin Kelly are two of 33 Australian personnel working full time in the US representing Australia’s interests in the global F-35 Program as part of the Joint Operational Test Team (JOTT) based at Edwards Air Force Base.

They are responsible for testing the F-35 air system in an operationally representative environment, the outcomes of which are critical to informing Australia on how best to support the F-35A aircraft.

“Australia’s involvement in Initial Operational Test and Evaluation (IOT&E) activities gives us a huge voice in the F-35 Program and a chance to drive change in a direction that suits the RAAF’s interests,” maintenance expert SGT Kelly said. ▶▶

“This provides great confidence and reduces the risks we are managing.”

From an F-35 supportability perspective, both FLTLT Mason and SGT Kelly consider the F-35's Autonomic Logistics Information System (ALIS) to be the defining difference to any other platform they have worked on.

“Maintaining a modern day fighter aircraft has been done before, but using ALIS to do so is cutting edge and will revolutionise the way we maintain aircraft,” SGT Kelly said.

“ALIS provides the information system infrastructure (hardware, software and data) that performs maintenance management, fault diagnostics, supply support, mission planning, and training management across the F-35 weapon system.”

FLTLT Ben Mason, the Logistics IOT&E Coordinator, said he can see how his role directly influences Australia's F-35A sustainment planning.

“We've been able to provide insight from our experiences here to help shape the way in which Australia will use and support the aircraft, including ALIS,” FLTLT Mason said.

Air Commodore (AIRCDRE) Terry Saunder, Acting Head Joint Strike Fighter Division, said the RNLAf deployment to the Netherlands was a beneficial exercise.

“Having the opportunity to observe the preparation, pack-up, deployment and reconstitution of F-35A's to the Netherlands provides Australia with valuable insight as we prepare to ferry our first two aircraft to Australia in 2018,” AIRCDRE Saunder said.

“This provides great confidence and reduces the risks we are managing as we plan to integrate this new and exciting capability into the broader Defence environment.”

The JOTT is a collaborative undertaking between the US, the UK, the Netherlands and Australia consisting of five operational test squadrons responsible for operating and maintaining all three variants of the F-35; plus three Integrated Project Teams who support operational test planning, execution and reporting activities.

The Commonwealth has already taken delivery of the first two aircraft which have already accumulated 630 hours at the F-35A International Pilot Training Centre (PTC) at Luke AFB, Arizona. Australia's next eight aircraft will be delivered in 2018, two of which will be the first to be ferried to Australia. The remaining six will be temporarily based at the PTC at Luke AFB through to 2020.

PEOPLE ON THE MOVE

Warren King to advise Navantia

Navantia Australia has engaged Warren King as a senior advisor. King, one of Australia's most informed and experienced advisors on Australian defence acquisition and sustainment policy and former chief executive of the DMO, has joined from the desire to achieve the best outcomes for his country, according to the company's statement.

“Warren King emphasised the reliability of Navantia Australia in its performance of its contracts with the Commonwealth and its commitment to keep delivering and to lead the process of maturing the shipbuilding industry of Australia to international standards,” it said.

Debating Defence: Payne and Conroy go head to head

Patrick Durrant | Sydney

The National Press Club hosted a debate on Thursday 16th June between Defence Minister Senator Marise Payne and Shadow Minister Senator Stephen Conroy. Club board member and 7.30 political correspondent Sabra Lane chaired the event.

Senator Payne began by outlining the achievements of the Government in Defence during the past three years, focusing on the Defence White Paper, the First Principles Review, the goal of increasing the portfolio's budget to two per cent and the positive steps the Department was making in resetting the ▶▶

“Senator Conroy made a conciliatory introduction where he referred to the Minister’s “courteous administration of the portfolio”.

(L-R) Senator Stephen Conroy makes his opening address as Sabra Lane and Senator Marise Payne look on.



© ABC NEWS

relationship between itself and industry.

“These reforms . . . have set the firm foundations for the Turnbull Government to defend Australia and its interests. This is done in a way to ensure Government has the flexibility to seize opportunities as and when our strategic circumstances change. Ladies and Gentlemen that is what responsible government is all about,” Senator Payne said.

Senator Conroy made a conciliatory introduction where he referred to the Minister’s “courteous administration of the portfolio” and stated Labor’s constructive, bipartisan approach towards supporting the key decisions of the past three years. He then moved quickly to criticise the Government’s “broken promises, chaos and indecision” which had been “characterised by the portfolio in particular”.

Senator Conroy singled out the “mishandling” of the future submarine program’s CEP, saying the flawed, “unproven” competitive evaluation process had yet to “provide a contract”.

He said the Minister had refused to mandate for a minimum 70 per cent of the work to be done in Australia despite Christopher Pyne publicly proclaiming 90 per cent of it would be done locally and promised Labor would hold the Government to this promise if it was re-elected.

He also criticised the government’s decision to overturn Labor’s commitment to build the Navy’s two replenishment ships in Australia.

On the South China Sea, Senator Conroy said in contrast to the actions of the Turnbull Government, Labor would authorise the ADF to conduct FONOPs in accordance with international law should it request permission to do so.

He added the ADF should be able to do this independently of the US and quoted recent comments by the French Defence Minister, who recently said “if nations don’t stand up for [the rules based system] then you will see these disputes spread to other parts of the world”.

Senator Payne said Australia’s position on supporting the right of nations to operate freely in accordance with international law had not changed and encouraged all those engaged in claims and counter-claims to use the appropriate mechanisms to resolve their differences. >>>

FOLLOW ADM
ON LINKED IN

**adm-australian-
defence-magazine**



“I am very comfortable that decision is being made by the Prime Minister.”

“We won’t flag or comment publicly on specific details of future ADF operational activities,” she said.

In response to a question from chair Sabra Lane on how she felt about the report in the *AFR* which claimed that Malcolm Turnbull was under pressure to reinstate Tony Abbott to the front bench as Defence Minister, Senator Payne said diplomatically with “I am very comfortable that decision is being made by the Prime Minister”.

To a question regarding a ‘cryptic’ reference in the White Paper to a review of nuclear propulsion for the submarines in the late 2020s, Senator Payne said “although reading the tea leaves between the lines of the White Paper may be the databased joy of commentators”, it was “very simply” a reference to changing submarine technologies and the need to adapt the submarines in an “extraordinarily fast-moving area of science and innovation”.

“We’d be foolish in the extreme to presume that the submarine you produce on day one is anything like the submarine you produce at the halfway point or even at the three quarter point potentially,” she said.

Senator Conroy concurred and said he’d been reassured by the Minister’s statement that “we will be acquiring 12 conventional future submarines”.

The full video of the debate can be viewed [here](#).

Navantia increases Australian footprint

On 21 June Navantia Australia announced the opening of its Operations and Design Centre in Technology Park Mawson Lakes, South Australia.

L-R: Defence Attaché Captain Pedro Ramírez, Consul in Adelaide Juan Carlos Gafo, Ambassador to Spain Manuel Cacho, Warren King, President of Navantia José Manuel Revuelta, Director of Navantia Australia Francisco Barón, and Engineering Director Francisco Vilchez.



© NAVANTIA

FOLLOW ADM
ON FACEBOOK

AusDefMag



The Centre will be the home of its engineering and design capabilities in Australian marking an increase in the shipbuilder’s Australian footprint and assisting it to transfer skills into its Australian workforce.

In addition to the Operations and Design Centre, Navantia has a large team of technicians working in the construction of the AWDs, building up a highly knowledgeable and capable workforce in the shipyard at Osborne.

The company statement said it was committed to achieving better progress on the project and putting it “back on track”.



Forthcoming Events

Williams Foundation Seminar: New Thinking on Air-Sea

Date 10 August 2016
Location National Gallery of Australia, Canberra
Web [Register here](#)

With the advent of 5th Generation capabilities like the JSF and the new combat systems on the AWD as well as the design and development of the new combat systems for the Australia's Future Frigates, Offshore Patrol vessels and Submarines, the ADF has a unique opportunity to influence and design in an unprecedented level of integration into the RAN's and RAAF's new platforms. That unprecedented level of integration should drive new thinking on the integration of air and sea power effects. The seminar is about examining the challenges and possibilities of the combat power in that future integrated force.

Land Forces 2016

Date 6-8 September, 2016
Location Adelaide Convention Centre
Organiser Land Defence Australia
Website <https://www.landforces.com.au>

A broad range of conferences, symposia and forums will be conducted in conjunction with the Land Forces trade show. See the website for more details about the various programs and trade show details. Organisers of the Land Forces 2016 Exposition are calling for nominations for the second round of Land Forces Industry Innovation Awards. These National Awards recognise and reward those Australian companies and individuals who are at the forefront of defence industry innovation in the land domain. To find out further information about the eligibility criteria or to submit an entry for the Land Forces Industry Innovation Awards go to the website. [Click here](#) for the Call for Papers for the Future Land Force Conference 2016.

ADM Defence Estate and Base Services Summit

Date 21 September, 2016
Location QT Hotel, Canberra
Organiser Informa and ADM
Website [ADM Events – Defence Estate and Base Services Summit](#)

The Defence Estate and Base Services Summit produced in conjunction with the Defence Estate and Infrastructure Group, assesses current and future opportunities for industry to work with the DE&IG to deliver defence services and to manage and sustain the defence estate.

Australasian Simulation Congress (formerly SimTect)

Date 26-29 September, 2016
Location Melbourne Convention Centre
Website www.simulationcongress.com

Simulation Australasia, the national body for those working in simulation >>>

in Australasia, will once again bring together the SimHealth and SimTecT conferences under the name of the Australasian Simulation Congress (ASC) with opportunities for a number of joint sessions of mutual interest. In 2016, it will also incorporate the International Simulation and Gaming Association (ISAGA).

2016 AIPM Regional Conference in conjunction with IPMA

Date 16-19 October 2016
Location Sydney
Organiser Australian Institute of Project Management
Website [Event page](#)

In October 2016, Sydney's Hilton Hotel will play host to the inaugural AIPM Regional Conference in conjunction with IPMA. The conference will be held from 16-19 October, and there will be a focus on topical issues relevant to the Asia-Pacific region. The delegate list will include project managers from across the globe, as the program focuses on the theme of "Project Management: Delivering Capabilities".

The conference will feature top local and international industry keynotes, plenary speakers and an active social calendar including the 2016 National [Project Management Achievement Awards \(PMAA\)](#) Awards Dinner.

ADM Northern Australia Defence Summit

Date 19-20 October, 2016
Location Darwin Convention Centre
Organiser Informa and ADM
Website [ADM Events – Northern Australia Defence Summit](#)

The conference will be a high level policy-driven summit with a theme and focus on 'Defence as a driver for developing the top end' that will examine key issues including: defence economics, strategic policy, the 2015 white paper, the first principles review, border protection and surveillance, US force posture initiatives, USMC bilateral exercises, engagement with regional partners, defence infrastructure and estate maintenance. The event will hear from ministers, defence officials, military commanders, industry leaders, prime contractors, defence SMEs, strategic analysts, academics and consultants.

MilCIS 2016

Date 8-10 November
Location Canberra
Organiser Consec
Phone 02 6251 0675
Email milcis@consec.com.au
Website [MilCIS](#)

In November each year, the Defence Chief Information Officer Group (CIOG) partners with the University of New South Wales, Canberra and the Institute of Electronic and Electrical Engineers (IEEE) to present MilS. The conference facilitates a continuing dialogue between Department of Defence employees, contractors, industry and researchers to discuss current and developing technological capabilities, project initiatives, and operational requirements. >>>

We are now taking submissions for [Paper Sessions](#), [Update Sessions](#) and [Tutorial Sessions](#). For Product Sessions, Breakfast Sessions and Lunch Sessions see [website](#).

SIA 8th Biennial Conference 2016

Date 14-16 November
Location Shine Dome, Canberra
Web [SIA Conferences](#)

The 8th SIA Biennial Conference will address issues that reflect the theme of the Conference: *From Collins to the Future Submarine – The challenge of Sustaining an Effective Submarine Capability*. In a year where the Government has selected DCNS as its design partner for the Future Submarine, the Conference acts as a pivotal week in the submarine calendar. The program includes an Opening Reception, a Conference Dinner and two days of high quality presentations from the cream of the submarine community.

Click [here](#) to download the Call for Papers for the 8th SIA Biennial Conference 2016.

NZ DIA Annual Forum 2016

Date: 16-17 November
Location: Viaduct Basin Events Centre
Website: [NZ DIA](#)
Email: contact@nzdia.co.nz

The NZ Defence Industry Association organises a Forum in November each year which brings together people from the New Zealand and international defence and industry communities. Its major emphasis is on networking, and encouraging the membership to work together on developing joint approaches to defence projects in NZ and overseas. The Forum will be held in the Viaduct Basin Events Centre, Auckland, to coincide with the 75th anniversary of the founding of the Royal New Zealand Navy. There will be the usual celebrations and a multi-nation Fleet Review.

LIST YOUR EVENT WITH ADM

To list an event in the magazine or website, please contact Patrick Durrant on 02 9213 8249 or patrickdurrant@yaffa.com.au

