



DEFENCE WEEK

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Submarine gap is a top priority

Julian Kerr

Defence Minister David Johnston has declared that avoiding a gap in Australia's submarine capability is currently his top priority.

The Minister has also stated his dissatisfaction with the administration of defence export controls, and a shakeup is clearly on the way.

Addressing the annual **Submarine Institute of Australia conference** in Adelaide on 15 October, Senator Johnston said many people thought that the complexity of remediating and possibly extending the life of the RAN's six-strong **Collins class fleet**, together with implementing the **Sea 1000 program** for the Collins' successor, meant that a capability gap was unavoidable.

"But I am not convinced, and it would take a lot for someone to show me that there is not the will, the capacity or the resourcing to avoid this," said the Minister.

"I will not swallow for one split second the fact that we must have a capability gap in our submarine capability, and I know that our allies will not stand for that either. So we must do a lot better in a more timely way".

The current life of type of the Collins fleet runs from 2025 to 2030. An extension of service life is being considered to cover any delay in construction of its yet-to-be selected replacement, which is expected



to be either an evolution of the Collins or an entirely new design.

Senator Johnson said he had not yet received classified backgrounders on Collins class issues and progress with Sea 1000. However, these would be taking place soon and he would be wanting to know what had been happening with the programs over the past five years.

"It won't be a briefing, it will be a seminar and it will go for several days because this is our number one priority at the moment", he said.

The Minister also told the conference he had "a significant difficulty with a **Defence Export Control Office** that just says no and then the purchaser goes to one of our neighbours and gets exactly the same product. It is frustrating, annoying, infuriating.

"We have a footprint here, often from Europe or North America, where there is a substantial investment in providing the technical skills to develop particular componentry and capability, we get out and try to sell it and somebody says you can't do that, it's too sensitive..."

"If we are doing to go down the path of being a technologically cutting-edge leader in defence industry, the Defence Export Control Office must be able to assist in the provision of tamper-proof product and of having some capacity to flexibly respond to challenges that having a skilled, highly-trained economic output requires".

The Minister said he wanted an export control office that was dynamic, that anticipated problems, and understood the need for businesses to succeed - "that's one area where I think we can enhance the enterprise and we are going to make some significant changes on the way we go about it".

ADM AUSTRALIAN DEFENCE MAGAZINE **INVITATION**

**TO SUBMIT YOUR ENTRY FOR THE 2013
TOP 40 DEFENCE CONTRACTORS
AND TOP 20 SMEs
IN AUSTRALIA AND NEW ZEALAND**

**ENTRIES CLOSE:
6 NOVEMBER 2013**

You are invited to submit an entry for your company in ADM's TOP 40 Defence Contractors for 2013 and/or ADM's TOP 20 Defence SMEs.

TOP 40 DEFENCE CONTRACTORS

TOP 20 DEFENCE SMEs

All enquiries should be directed to ADM Managing Editor Judy Hinz,
Tel 07 3348 6966 Email: judyhinz@yaffa.com.au



Northrop Grumman delivers first Australian F-35 fuselage



Northrop Grumman Corporation has delivered the centre fuselage for Australia's first F-35 Lightning II aircraft to Lockheed Martin on September 23.

This centre fuselage will be integrated into a conventional take-off and landing variant of the F-35 and represents the first of 100 centre fuselages that will be manufactured at Palmdale for the Royal Australian Air Force.

"This centre fuselage will be incorporated into the first F-35 for the Royal Australian Air Force and will be delivered in 2014 for pilot training," **Brian Chappel**, vice president of the F-35 program for Northrop Grumman Aerospace Systems sector said.

"The first Australian centre fuselage was inducted into our **Integrated Assembly Line (IAL)** at Palmdale last October and now we've delivered it, marking yet another milestone achievement for the F-35 program."

As one of eight international partners on the program, Australia joined the F-35 program in 2002 and has made significant contributions to the design and development phases of the program.

Northrop Grumman's IAL maximizes robotics and automation, providing additional assembly capability while meeting engineering tolerances that are not easily achieved using manual methods. The IAL is central to producing the F-35's centre fuselage as well as increasing the program's affordability, quality and efficiency. Currently, there are 35 centre fuselages in flow on the IAL, including another centre fuselage for Australia.





Hull consolidation of first destroyer nearly complete

Hull consolidation for the first of three Air Warfare Destroyers is nearly complete with just seven remaining blocks out of 31 to be joined to the ship's structure.

Speaking at the **Pacific 2013 International Maritime Conference and Expo** in Sydney, CEO of the Air Warfare Destroyer (AWD) Alliance **Rod Equid** said the largest defence procurement project in Australia is on track and progressing well.

"The final seven blocks will be lifted and joined to the ship's structure over the coming three months," Equid said. "Overall block production and fit-out of the first destroyer, **Hobart**, is well advanced. It is great to see the first destroyer taking shape in Adelaide with the complex Aegis tower successfully lifted onto the ship structure last week.

"We are delighted with the progress of Hobart over the past 12 months. All sub-contracted blocks constructed by **BAE Systems, Forgacs Engineering** and **Navantia** for Ship 1 have arrived at the ASC Shipyard in Adelaide and warehouses are full of equipment in readiness for load out. Hull consolidation is expected to be complete by early next year, followed by the launch of *Hobart* in the second half of next year with the Combat System activated by the end of 2014."

Equid said there considerable internal fit-out underway including installing the winch for the towed array, the water coolers, diesel generators, main engines, gearboxes as well as equipment to support the combat system. A team, including contractors from Tasmanian company **Taylor Bros**, is working on the interior compartments of the ship to fit and install the accommodation equipment including cabin modules, on-board furniture, galley, pantry, refrigerated spaces and laundry equipment.

There is good progress on the second destroyer, *Brisbane*, with the keel laying ceremony planned for February next year. The keel blocks for *Brisbane* have arrived from Navantia in Spain in a high state of fit-out ready for consolidation.

The combat system team is progressing well with almost all equipment items in-country and load out and installation activities started. The project is on track against the re-baselined schedule, with ship deliveries planned for March 2016, September 2017 and March 2019.

October ADM 2013 OUT NOW!

- From the source interviews with Chief of Navy, Vice Admiral Ray Griggs and Chief of Army, Lieutenant General David Morrison
- Sea 1179 and Sea 1180 part ways
- Joint logistics on the LHD
- And much more!





Skilling program grants boost Australian defence industry

Defence has awarded more than \$10.5 million in grants to more than 120 companies under the most recent round of the Skilling Australia's Defence Industry (SADI) program.

Minister for Defence Senator **David Johnston** said the funding

would provide more than 1,000 individual training opportunities to support Australia's defence industry in improving the quality and quantity of skills within its workforce.

"The Government's responsibility for national security extends to providing targeted funding for measures to ensure a highly skilled defence industry that is responsive to the requirements of our Australian Defence Force," Senator Johnston said.

"Providing Australian defence industry with this funding to undertake skilling activities is one way to create a stronger and smarter workforce.

"From the well-known major defence prime contractors to many small to medium enterprises, the companies that have been successful in this round will be funded to supervise apprentices and train existing employees."

SADI grants fund a wide range of activities including short-courses, up-skilling in the use of specialist equipment, postgraduate and undergraduate courses, and certificate or diploma level training.

In this, its ninth year, the SADI program continues to attract a broad range of applications for training activities covering project management, engineering, logistics and technical trades.

"Up-skilling these employees now will ensure that our defence industry is well positioned to deliver and support the capabilities required by the Australian Defence Force now and into the future," Senator Johnston said.

Additional information on the SADI program can be [here](#).

Entries are now open ADM/DMO Industry Team of the Year Awards for Excellence 2013

Click [here](#) to get more information on the awards and to download the entry pack. We're expecting a strong field of contenders in all four categories. So industry, get talking to your SPOs and DMO contacts. DMO and SPOs, get talking to your industry partners.





Left to Right: Joe Rears, Director Aviation (One Atmosphere); Hon. Senator David Johnston, Minister for Defence; Tim Lyons, Managing Director (One Atmosphere)

Maritime Australia Innovation award winners

Organisers of the Pacific 2013 International Maritime Exposition have announced the winners of the inaugural Maritime Australia Limited Industry Innovation Awards.

A total of 18 Australian civil and defence industry innovators were shortlisted for these prestigious National awards across five categories.

The awards have been developed by **Maritime Australia Limited** to recognise the significant innovations of companies operating in the commercial maritime and naval defence sectors.

Maritime Australia Limited CEO **Ian Honnery** said the quality and diversity of the entrants has been outstanding.

"Some of the innovators are trying to be game changers in their markets and we are delighted to be able to recognise their contributions and be a part of their journey."

Innovation Award Winners

The **National Defence Industry Innovation Award** winner is **One Atmosphere Pty Ltd** from Western Australia, for its development of the Pegasus Aircraft Buoyancy System. The lightweight bolt-on/bolt-off system is designed to provide emergency buoyancy for helicopters or light aircraft if they crash or ditch at sea.

The **National Civil Industry Innovation Award** winner goes jointly to New South Wales companies, **Commercial Diving Services Pty Ltd** and **Thomas & Coffey Limited** for their work on developing and then commercialising a new hull surface treatment technology for removing marine growth from the hulls of ships.

The Defence **SME Innovation Grant** was a closely fought category with the award being presented to **PHM Technology Pty Limited** from Victoria for its Maintenance-Aware Design Environment, or MADe, software application. MADe is a smart simulation system that helps engineers model and analyse the design and sustainment of complex engineering systems such as ships during the early stages of their design.

The judges did also highly commend Victorian company **Daronmont Technologies** in the Defence SME Innovation Grant category.

The judges unanimously recommended the **Young Innovator Scholarship** for Defence Industry be awarded to **Cameron Barr** for his work on extending the life and



improving the performance of Nickel Aluminium Bronze or NAB components that are used widely in marine applications. Barr has been conducting this work as part of his Doctoral research at the University of Melbourne.

The **Civil SME Innovation Grant** has been awarded to **Sentient Vision Systems Pty Limited** for its work developing a dedicated maritime version of its Kestrel imagery analysis system. Kestrel Maritime is a software solution that enhances the processing of electro-optical and infrared full motion video from manned aircraft and UAVs in real time.



Dr Alex Zelinsky and Steve Ludlam

ASC and DSTO join forces to support Collins fleet

ASC and the Defence Science and Technology Organisation (DSTO) signed a Strategic Alliance to support the technology and capability of Australia's Collins Class submarine fleet at the Pacific 2013 International Maritime Exhibition.

The agreement signed between ASC CEO and managing director **Steve Ludlam** and Chief Defence Scientist **Dr Alex Zelinsky** means ASC and DSTO will share scientific expertise and resources to ensure the effective operation of the **Collins Class submarine fleet** until their replacement by the future submarine.

Ludlam said collaboration was a critical step in building defence industry capability and understanding of the importance of science and technology.

"Collaboration on this level requires industrial leadership and defence science leadership and we see this alliance as a foundation for broader work across defence industry to increase the level of commitment and expenditure on science and technology," Ludlam said.

"Industry has some way to go before it fully integrates innovation into business. We are seeing this change inside ASC and we are taking a leadership role in our industry.

"We are dedicated to driving this across our business and across our industry and it will inform programs such as **Sea 1000**, and our existing **Collins Class** and **Air Warfare Destroyer** programs."

Dr Zelinsky welcomed the alliance and said that the Collins fleet is an invaluable component of Australia's naval defence capability.

"The objective of this alliance is to advance the technology and capability development in a number of strategic focus areas beyond that which any one party could do alone, benefiting Navy and Defence," Dr Zelinsky said.

As part of the alliance, ASC and DSTO will focus on areas including the submarines'



hull and structural integrity, propulsion systems, manoeuvrability and hydrodynamic performance, and environmental control.

“These mutually beneficial objectives will be achieved through Integrated Project Arrangements and working groups to address these long term collaborations, as well as workshops, staff exchanges and technical advice and support,” Dr Zelinsky said.



Defence supports school-based submarine technology challenge pilot

The Defence Materiel Organisation (DMO) will sponsor Re-Engineering Australia to undertake a pilot ‘Future

Submarine Technology Challenge’ in selected Australian schools next year.

The school-based challenge will draw on the success of the F1 in Schools Challenge, also run by Re-Engineering Australia and sponsored by the DMO.

“A career in a high-end discipline like systems design or engineering starts well before your first day on the job,” Minister for Defence David Johnston said.

“It starts with the subjects and electives you choose in school and the tertiary qualifications you aspire to gain.

“Initiatives like the **F1 in Schools Challenge**, and this new pilot program focused on submarines, are all about encouraging our school students to be pursuing interests in the science, technology, engineering and mathematics (STEM) disciplines.”

The Future Submarine Technology Challenge will give participating students hands on experience with core submarine project elements including:

- Project Management: establishing an organisation (virtual company) to complete the design project, assembling a team, managing the manufacturing process and presenting/marketing the final product.
- Design and Manufacture: producing a scale model of a submarine hull, a scale model of one of the operational spaces within a submarine used for human habitation, producing virtual 3D models.
- Science and Engineering: studying the impact of hydro-dynamics and other forces on the design, testing energy generation, storage and usage methods.

The Subs in Schools pilot program will involve five schools in two States, with a balance of city and regional schools involved.

ADM Northern Australia Defence Summit

Date: 29 - 30 October 2013, Darwin

Enquiries: Keith Barks, Tel: +61(2) 9080 4342;
Email: Keith.barks@informa.com.au





AISA recognises BAE Systems Detica as Information Security Employer of the Year

BAE Systems Detica has been recognised as Information Security Employer of the Year at the 2013 Australian Information Security Association (AISA) awards.

BAE Systems Detica won Information Security Employer of the Year for the second year in a row. The award is based on votes from AISA's membership of more than 1,500 information security industry professionals. The company delivers information intelligence solutions to government and commercial customers and develops solutions to strengthen national security and resilience.

BAE Systems Detica also won a second award at the ceremony. **Christina Camilleri**, associate consultant, security testing at BAE Systems Detica was announced **Information Security Rookie of the Year**.

MilCIS2013 draft program available

The 2013 Military Communications and Information Systems (MilCIS2013) Conference will be held at the National Convention Centre, Canberra November 12-14, 2013.

MilCIS 2013 will address:

- Operational concepts
- Information management
- Command support systems
- Network architectures
- Routing and protocols
- IPv6 migration
- Network management
- Modeling and analysis
- Tactical data links
- Wireless technologies, and
- Evolving and future technologies.

For a copy of the draft program for MilCIS2013 click [here](#).

ADM Defence Supply Chains Conference

Date: 4 - 5 December 2013, Adelaide

Enquiries: Keith Barks, Tel: +61(2) 9080 4342;
Email: Keith.barks@informa.com.au





Iona College Year 9 Student, Lawrence Cardaklija, pictured with a UAV drone

Aerospace Gateway schools flying high

Over the past few months many Aerospace Gateway schools have had the opportunity to experience first-hand the dynamic aviation and aerospace industry by experiential learning at various events.

In August, the **Queensland University of Technology (QUT)** hosted an event at Iona College to promote their Aerospace Engineering Courses. QUT captured the Aerospace Gateway Schools students' attention from the onset, by providing **Quadcopters** which were available for the students to fly. The students divided into teams of three and four, spent the afternoon flying the Quadcopters over obstacle courses on the school oval and the event proved to be a tremendous success and was very well attended by students, teachers, parents and QUT representatives.

Industry site tours hosted by **Aviation Australia, Brisbane Airport Corporation, Boeing Defence Australia, Virgin Simulator Centre, and Qantas Heavy Maintenance Hangar** have provided the gateway schools with an exclusive insight into careers within the aviation industry.

Most recently, the **2013 UAV Outback Rescue Challenge** was held in Calvert Queensland September 24-25. The UAV Challenge is a joint initiative between the **Queensland Government, the Australian Research Centre for Aerospace Automation (ARCAA, a partnership between QUT and CSIRO), Aviation Development Australia Limited and AUVS-Australia** - a prime example of government, industry and research organisations working together. Read more about the challenge by clicking [here](#).

The aim of the Aerospace Gateway Schools program is to create pathways for students to enter into Queensland's aviation and aerospace industries. The program commenced in January 2004, initially as a partnership between Education Queensland, Boeing Australia Limited (as it then was) and Aviation Australia. Six schools were initially targeted for the program and today there are a total of 25 Aerospace Gateway Schools, with 700 students throughout Queensland studying Aerospace studies and eight industry partners. The success of the program has also resulted in three major Queensland universities launching direct entry programs for the Aerospace Gateway Schools.

Male volunteers URGENTLY NEEDED

to help Kids living with cancer.

Boys living with cancer need male role models to help with their development and confidence at camps which involve everything from rolling in mud to laser tag.

Can you help? or know someone who can?

campquality.org.au/volunteer or 1300 662 267





ADM Online: Weekly Summary

A summary of the latest news and views in the defence industry, locally and overseas. Check out our webpage for daily news updates on the *ADM* home page and make sure you bookmark/RSS this for a regular visit.

This week, Defence awarded a multi-million dollar contract to upgrade facilities at two **Darwin bases** in preparation for the 2014 rotation of US Marines.

Lockheed Martin opened its fourth **Security Intelligence Centre (SIC)** in Canberra.

And, Lockheed Martin and the Royal Australian Air Force celebrated the beginnings of the first **F-35 Lightning II** for Australia.

International



CAE \$140 million contract wins

CAE has been awarded approximately \$140 million in military contracts, including approximately \$85 million to CAE USA alone.

The US contracts also include options valued at an additional \$50 million over the next five years. The contracts are part of CAE's second quarter order intake and are in addition to contracts already announced.

The contracts include an option exercise by the US Air Force (USAF) for the fourth year of **KC-135 tanker aircrew training services**, numerous **KC-135 simulator upgrades**, a new contract from the USAF to provide operations and maintenance support for new **KC-135 boom operator weapon systems trainers (BOWST)**, a contract to develop a military helicopter full-mission simulator for an undisclosed customer and a contract to perform a range of upgrades on the **German Air Force Tornado simulators**.





Boeing to build fourth Inmarsat-5 Global Xpress Satellite

Boeing will further strengthen Inmarsat's Global Xpress satellite network

under an exercised option to build a fourth Inmarsat-5 spacecraft. Global Xpress will provide Inmarsat's government and commercial customers with mobile broadband connectivity on land, at sea and in the air.

Scheduled to be delivered in 2016, the fourth satellite will be based on the **Boeing 702 High Power platform**. Boeing and Inmarsat signed the original Inmarsat-5 agreement in 2010.



F-35 JPO to mature HMDS

Rockwell Collins and Elbit Systems of America responded to an announcement that the F-35 Joint Program Office will focus exclusively on maturing their joint venture's **Helmet Mounted Display System (HMDS)**.

The **Gen 3 helmet**, which will include an improved night vision camera, new liquid-crystal displays, automated alignment and

software improvements is to be introduced to the fleet in low rate initial production Lot 7 in 2016.

Rockwell Collins ESA Vision Systems LLC also developed the **Gen 2 helmet** that F-35 pilots currently use, which will meet the needs for the US Marine Corps to declare Initial Operational Capability in July 2015.

The F-35 HMDS provides pilots with unprecedented situational awareness. All the information that pilots need to complete their missions – through all weather, day or night – is projected on the helmet's visor. Additionally, the F-35's **Distributed Aperture System (DAS)** streams real-time imagery from six infrared cameras mounted around the aircraft to the helmet, allowing pilots to 'look through' the airframe.





A new brand of cyber crime

A new group of cyber attackers is eschewing long-term system compromise for fast hit-and-run style network breaches, part of a shift in tactics that's making it harder for defenders to protect systems.

The group, tracked by cybersecurity vendor **Kaspersky Lab** over the past two years, primarily targeted defence contractors in Asia, mostly in Japan and South Korea. Some of those

firms are involved with the manufacture of US military platforms, the researchers said.

The group that Kaspersky tracked used a Chinese word that roughly translates as three-daggers, in reference to an ancient weapon, in its command-and-control code. The vulnerabilities it employed were dubbed "Icefog" by the researchers and included backdoors in both Windows and Mac OS systems. Like most attacks prevalent today, the attackers used "spear phishing" emails — messages targeting individual users on a network that are designed to get them to download an infected file or go to a dangerous link, to gain initial access to a system.

Kaspersky described the group as routinely changing its structure and functioning as mercenaries, with bases in several countries but the primary activity coming out of China.

Much of the targeting of contractors appeared to be fairly far down in the supply chain, Baumgartner said, where targets create opportunity for espionage and sabotage.

For those trying to defend networks, it's a reminder that the biggest problem is attackers who already know what files they want.

FORTHCOMING EVENTS.....page 14



FORTHCOMING EVENTS

For a full list of defence and industry events, head to **ADM's online events page at www.australiandefence.com.au**

ADM Northern Australia Defence Summit

DATE: 29 - 30 October, 2013, Darwin Convention Centre

ENQUIRIES: ADM Events - Keith Barks, Ph: 02 9080 4342;

Email: keith.barks@informa.com

Web: www.admevents.com.au

Bringing together key figures from the NT Government, senior military figures, and senior industry representatives, this conference is all about the continuing development and support of Defence in the Top End. Hear about the current and new initiatives offered by Government and what industry can bring to support Defence's strategic objectives.

ADM will
be in
attendance

Kokoda Foundation 2013 Annual Dinner

DATE: 31 October, 2013, Rydges Lakeside Hotel, Canberra

ENQUIRIES: Ph: 02 6295 1555;

Email: events@kokodafoundation.org

Trilateral Dinner with Australia, the United States and Japan. Addressing Divergent Futures in the Asia-Pacific. Key Speakers: include: The Hon Tony Abbott MP, His Excellency Yoshitaka Akimoto, Japanese Ambassador to Australia, His Excellency John Berry, U.S. Ambassador to Australia and Admiral Harry B. Harris Jr. (USN), Commander of the US Pacific Fleet

SEWG Meeting No.7

DATE: 11 November, 2013, University House ANU, Canberra

ENQUIRIES: Lori Catelli, Ph: 02 6265 7108;

Email: lori.catelli@defence.gov.au

The seventh meeting of the SEWG will take place. If you are able to attend, please respond by e-mail NLT Thursday October 17, with the names and email addresses of those attending the SEWG meeting.

Trade Controls Summit 2013

DATE: 20 November, 2013, ANU, Canberra

ENQUIRIES: Wendy Green, Ph: 02 6120 5111;

Email: wendy.green@thalesgroup.com.au

Join industry colleagues for a day of presentations and discussion of Australian and US export controls. Network with professionals in your industry and learn best practices for managing your export compliance obligations from leaders in the field.

ADM Defence Supply Chains Conference

DATE: 4 - 5 December, 2013, Hotel Grand Chancellor, Adelaide

ENQUIRIES: ADM Events - Keith Barks, Ph: 02 9080 4342;

Email: keith.barks@informa.com

Web: www.admevents.com.au

It is recognised that it can be difficult for SMEs to find the right entry portal to an entity as large and diverse as defence primes. SMEs are a vital element in major defence acquisition contracts through the supply of sub-systems and components, as well as the establishment and sustainment of Australia's defence capability. SMEs are the links in the supply chains supporting the operation and maintenance of these capabilities. SMEs can also be the birthplace of many of the innovative technologies that contribute to Australia's defence capability edge.

ADM will
be in
attendance

ADM 2014

DATE: 25 - 26 February, 2014, Canberra

ENQUIRIES: ADM Events - Keith Barks, Ph: 02 9080 4342;

Email: keith.barks@informa.com

Web: www.admevents.com.au

This major Defence/Industry Conference has evolved into a pivotal event in the Defence calendar, attracting over 250 delegates each year. More details to come.

ADM will
be in
attendance

The Submarine Choice: ASPI's International Conference

DATE: 8 - 10 April, 2014, Canberra

ENQUIRIES: Lynne Gozzard, Ph: 02 6270 5109;

Email: keith.barks@informa.com

Web: lynnegozzard@aspi.org.au

Join distinguished international and Australian speakers for two days of debate on Australia's Future Submarine choice. Topics include: The Strategic Context; the Navy's Perspective; Regional Perspectives; Design Options; Industry and Economics; Project Management; Lessons from Abroad

