



DEFENCE WEEK

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The future of Australia's defence industry

Raytheon Australia's Managing Director Michael Ward claims that delays in major defence programs in Australia have claimed thousands of jobs in the country's defence industry base over the past three years.

Ward said the industry was initially encouraged to invest after the *2009 Defence White Paper*, but was now facing a slowdown after the cuts.

"In just three years, the workforce has fallen from 29,000 people to somewhere between 24,000 and 25,000, according to the **DMO** (Defence Materiel Organisation)," Ward said.

"That growth has not come, return on investment has not been realised, and the fragility of Australia's defence industry has been exposed."

Ward's comments prompted **Shadow Minister for Defence Science, Technology and Personnel, Stuart Robert**, to issue a statement in which he said that the 2009 Defence White Paper and the investment that it promised was a "cruel hoax" on the country's defence industry.

"Raytheon Australia's Managing Director Michael Ward has again confirmed what we all already knew, that Labor has abandoned defence industry and the jobs it creates."

He added: "Australia now faces a grim future devoid of an indigenous defence industry sector. We are fast approaching a point whereby if Australia's strategic defence industry sector is left to wither any further, we may not be able to re-establish it."



US Navy Growlers visit Australia



By Nigel Pittaway

Three United States Navy EA-18G Growler electronic attack aircraft arrived in Australia at the end of September to exercise with RAAF Super Hornets for the first time.

The exercise, named **Growler 12** marks the first deployment of the Growler capability to Australia and the southern hemisphere. The aircraft are from **VAQ-132**, 'the Scorpions', one of three land-based Growler squadrons in the US Navy which are primarily used for expeditionary purposes.

VAQ-132 is presently on a six-month forward deployment to Misawa Air Base in Japan and prior to the Australian visit had been at Andersen AFB on Guam for **Exercise Valiant Shield**.

The unit brought three of its five aircraft and nine crews to Australia for Growler 12, which began on October 1st and will conclude October 20th. During the exercise the Growlers are undertaking training flights from Amberley with the Super Hornets of No.1 Squadron RAAF and missions include strike package escort, electronic attack and fighter combat manoeuvres.

From an Australian perspective the exercise allows Super Hornet air and ground crews the opportunity to familiarise themselves with the Growler's capabilities ahead of the first conversion in 2014.

Australia is converting twelve of its 24 Super Hornets to Growler configuration in a \$1.5 billion deal. "The capability will provide protection for Australian troops, and the USN Growler visit will allow us to learn more about how the capability works alongside our F/A-18F Super Hornets," said Officer Commanding 82 Wing Group **Captain Geoff Harland** prior to the exercise commencing.

Speaking during the exercise, **Commander Dave Kurtz**, the Commanding Officer of VAQ-132 praised the Super Hornet community at Amberley for its hospitality and professionalism. "We're flying five days a week with No.1 Squadron during Growler 12," he said. "And we're getting as much out of this as any other exercise."

After Growler 12, VAQ-132 will be deploying to other countries in the region to conduct exercises with partner countries, but Commander Kurtz declined to provide any further details.





First Defence Capability Guide released

Defence Minister Stephen Smith and Defence Materiel Minister Jason Clare have announced the release of the first Defence Capability Guide (DCG). The 2012 DCG provides general guidance for industry on projects for the six-year period following the four years Forward Estimates period of the Defence Capability Plan (DCP). The most recent DCP was released by the Government in July.

Together the DCP and the DCG provide a 10-year program for defence capability acquisition, which is being done at the request of Australian Defence industry. Earlier this year, Minister Smith and Minister Clare met with Australian Defence industry representatives and sought advice on ways to improve the information on defence capability provided to industry. Australian Defence industry asked for this model, which the Government has now produced.

The DCG will ensure that industry has general information about the Government's longer-term capability intentions, noting that beyond the four year DCP, there is more uncertainty, and historically projects are less well defined and have been subject to much more change, in terms of scope, cost and schedule.

The level of information on projects in the DCG for the general guidance of industry is necessarily less definitive than that in the DCP. Projects in the DCG will enter the DCP as they become better defined and if Government decides that they are of sufficient priority to be included in the Forward Estimates years and funded in the Budget.

The current DCP contains 111 projects, or phases of projects, worth over \$150 billion. Again, the release of a four year DCP was based on consultation with Australian Defence Industry which has resulted in a significant reform of Defence's key capability acquisition document. The purpose of the reform was to align the DCP with the four-year Forward Estimates period in the Budget and provide greater certainty for Industry.

The public DCP provides information for industry on project cost, project schedule and local industry content.

Both the four-year DCP and the six-year DCG will be subject to change as strategic circumstances evolve, new technologies emerge and priorities are updated to reflect the changing needs of the ADF.

Download the DCG by clicking [here](#) (PDF 1.21MB, 48 pages).

Austal acquires Australian maritime services firm

Australian shipbuilder Austal has acquired the Darwin-based engineering and services firm Hydraulink NT and its associated business KM Engineering (HKME).

The terms of the agreement will see Austal acquire 80% of HKME for \$8 million (USD8.17 million), split between cash and restricted equity, with a further \$2 million available to HKME upon the meeting of agreed performance-based conditions.

The acquisition will enhance Austal's footprint in northern Australia, with Austal's existing Darwin operations merging with those of HKME.



Swedish Australia Defence Day

A who's who of Australian and Swedish Defence people gathered in Canberra this week to look at ways to further improve the already strong relationship. Senior Swedish Defence department officials from FMV, FXM and FOI (the Swedish version of the DMO, defence department and DSTO) and Swedish industry heavy weights like Saab, Kockums and BAE Vehicles Systems Sweden spoke alongside the Swedish Defence Secretary and Australian defence officials.

Swedish State Secretary of Defence **Carl von der Esch** outlined the close trade relationship between the two nations and how the 7.3 billion euro Swedish defence industry made over 60 per cent of its money outside of the nation, with Australia playing a vital partnership role outside of Europe.

The **Giraffe C-RAM** technology from Saab, currently deployed in Afghanistan, was mentioned frequently as was the **9LV combat system** for surface ships.

RADM Jonas Haggren, head of the Navy Department, spoke of the many similarities the Australian and Swedish Navy faced in terms of submarine crewing and maintenance timing. The Gotland class will be undergoing a range of staged upgrades in the near future, with the fleet of three boats, being upgraded with various elements separately to reduce time out of the water.

Sweden is also dealing with the end of conscription and relying on the volunteer system like Australia. RADM Haggren explained how it can take 10 to 15 years to train elements of the submarine crews to a high standard and retaining these skilled people is a massive challenge for them as they prepare to rotate the existing boats and make plans for a new class.

ADM AUSTRALIAN DEFENCE MAGAZINE

INVITATION

**TO SUBMIT YOUR ENTRY FOR THE 2012
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AND TOP 20 SMEs
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Contractors**
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Aussie participation in Poseidon development formalised



Further to *ADM's* late August report that the US Defense Department plans to sign a \$1.2 billion deal with Australia to jointly develop new capabilities for P-8A Poseidon aircraft in response to evolving threats, the Government last week confirmed the signing of the \$73.9 million Increment 3 Project Arrangement with the United States Navy for the P-8A aircraft, which will replace the AP-3C Orion maritime patrol aircraft.

The signing formalises Australia's participation in the development of the Increment 3 P-8A aircraft and marks Australia's continued commitment to the \$5 billion project to acquire a new manned Maritime Patrol. The Pentagon's acting director of international cooperation, **Frank Kenlon**, had described plans for the project arrangement with Australia's defence ministry in a July 18 letter to lawmakers. *Inside the Pentagon* reviewed a copy of the letter.

The aim was to "jointly research, develop, test, evaluate, integrate and establish production capacity of the P-8 increment 3 capabilities, in order to provide more affordable, supportable, maintainable and operationally effective P-8 weapon systems for both participants," Kenlon wrote. The P-8A is a long-range anti-submarine warfare, anti-surface warfare, intelligence, surveillance and reconnaissance aircraft.

"The increment 3 follow-on development effort will allow the P-8A to keep pace with ever-present threats to the security of the United States and is a step in the P-8A evolutionary acquisition strategy that consists of sequential improvement upgrades," Kenlon notes.

The planned deal falls under the memorandum of understanding between the Department of Defence and Australia's defence ministry concerning cooperation in the P-8 production, sustainment and follow-on development project. The new project arrangement "provides for acquisition activities" for P-8A requirements engineering, capability prototyping, research and development, test and evaluation, retrofit production efforts and sustainment planning for Increment 3 capabilities.

The results of the project arrangement will be retrofitted into the 117 US P-8A aircraft and the eight Australian aircraft that will be acquired under the memorandum of understanding, Kenlon wrote.

Out of the \$1.2 billion, the United States will contribute nearly \$1.1 billion toward the effort, and Australia will contribute \$85.7 million, according to the letter. In addition, the United States will contribute six "man-years" for the duration of the P-8A increment 3 agreement, from fiscal year 2012 to 2022, and intends to make prototyping facilities worth



\$22 million available to the project. Australia will also contribute four cooperative project personnel from fiscal year 2012 to fiscal year 2022.

In the statement released by **Defence Minister Stephen Smith** and **Defence Materiel Minister Jason Clare** the Increment 3 Project Arrangement is described as falling under the Production, Sustainment and Follow-on Development Memorandum of Understanding between Defence and the United States Navy, which was signed in March this year and provides the framework by which the P-8A will be acquired, sustained and developed throughout its service life.

The Increment 3 Project Arrangement is the first planned upgrade to the Australian P-8A fleet and aims to provide a range of new upgraded capability to the Increment 2 aircraft, including a networked maritime strike weapon, air-sea rescue kit and enhanced target tracking.

This Project Arrangement represents the first real opportunity for Australia to influence the future capability of the P-8A, as Australia will be involved in the Increment 3 upgrade from the requirements determination phase.

Indra to supply TCR for RAAF

Indra will implement its new Tactical Communication Router for the Royal Australian Airforce's (RAAF) Airspace Controller teams. The delivery of these systems forms the basis of a recent contract signed by Indra with the Commonwealth of Australia under minor project AFM00935. The project will last until 2014 and is scoped to deliver six systems.

Defence says the major risk with this project has been a lack of compliant tender responses from industry resulting in a retender for this requirement. However the risk is assessed as low, based on industry responses to a previous request for information (RFI).

Indra will provide a ruggedised, encrypted red/black, **Tactical Communication Router (TCR)** which will provide interoperability and connectivity to existing communications infrastructure as well as tactical Ground-Ground and Air-Ground-Air voice communications networks. These characteristics, as well as its innovative design, make this one of the most advanced and capable communication routing systems in the world.

Indra's Tactical Communication Router will provide maximum operational flexibility by utilising modular configuration concepts and will be capable of rapid deployment to provide communication services to Single Service, Joint or Coalition forces whilst deployed within Australia or throughout the world.

The system is based on Indra's commercially available **Digital Voice Communication and Control SDC-2000** which provides the exceptional standards of performance that have become synonymous with Indra's systems worldwide, both for military and civil applications. It provides a redundant architecture with proven design and components to provide outstanding reliability and availability.

The system's Control Work Position comprises a modern, high-quality Human Machine Interface which provides the operator a highly intuitive touch screen that facilitates easy access to, and control of, radios and telephone services, which can be entirely monitored and supervised by the management system.

This technology offers the ADF a quantum-leap in safety and efficiency for the provision and manipulation of tactical communications in the international missions through the use



of advanced switching technology that adeptly manages both analogue and digital signal interfaces and signalling methods and encompasses state-of-the-art VoIP capability.

This contract is the latest in a number of projects won by Indra in Australia. Last year 2011 Air Services Australia commissioned Indra with the modernisation of the radar surveillance stations network which assists en-route aircraft in the eastern area of the country. Indra has also supplied the navigation aids to this and other local air services providers for many years.



ATK partners with NIOA on Benalla-Mulwala Bid

Ammunition manufacturer ATK has partnered with NIOA, Australia's largest ammunition supplier, to bid for the running of the Commonwealth's Benalla and Mulwala munitions facilities in the DMMA Project (Domestic Munitions Manufacturing Arrangements).

ATK's munitions-related businesses operate from more than a dozen locations in the USA, including five US Government owned plants, and has the world's largest ammunition distribution network through 440 dealers, distributors and representatives in 99 countries. ATK is also the key technology provider in Australia's Mulwala Redevelopment Program, which is nearing successful completion."

Robert Nioa, Managing Director NIOA, said "ATK has clearly demonstrated superior value and facility management expertise during their tenure at Lake City Army Ammunition Plant. The US Government has recognised their aptitude with continued stewardship of this major strategic facility. NIOA is proud to be teamed with ATK on the DMMA program - we are the natural operators of Benalla and Mulwala."



Top Owl too expensive for US Navy?

The US Navy has posted a request for information reaching out to industry for help in identifying an operationally ready, helmet-mounted display system to be used on UH-1Y and AH-1Z helicopters.



Inside Defense suggests this move could indicate that program officials are looking for a less-expensive alternative to the system now used on the aircraft, according to a source familiar with the program.

A 28 September request for information on Federal Business Opportunities states that the government plans to perform market research in support of an HMD system for the UH-1Y and AH-1Z aircraft -- which already have the Thales Optimized Top Owl HMD system -- and the purpose of the notice is "to identify candidate systems that meet the government's requirements."

The notice adds that the government seeks a non-developmental HMD system that can be fully integrated into the UH-1Y and AH-1Z aircraft. "The goal is to deliver HMD capability to fleet-deployed H-1 helicopters in 24 months," it states. "The HMD system should be capable of displaying flight-critical situational awareness symbology in addition to weapons control symbology and should be capable of off-axis tracking."

Australia equipped its 22 **Tiger Armed Reconnaissance Helicopters** (ARH) with the **Thales Top Owl helmet mounted display**, updated to have night vision imagery displayed on the wide field of view (40 degree) goggle shaped visor covering the entire upper face region of the wearer. In this way, imagery superimposes with flight control symbols, yet still permits viewing the outside environment.



Tectonica launches app competition

Tectonica have launched their "Got a Great App Idea" competition. The winner will receive \$5,000 in prize money for the best Defence or Security based App idea.

The panel of judges will be searching for the App idea that addresses a Defence or Security need in a novel way and delivers the end user with the greatest improvement in capability.

ADM Online: Weekly News 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 **Elbit Systems** was awarded a contract from the ADF for the supply of **Battle Management Systems** (BMS) for the Royal Australian Navy's landing craft.

Minister for Defence Materiel Jason Clare opened Defence's newest vehicle training facility, the Chora Valley Lines, at RAAF Base Amberley. The **Chora Valley Lines** will train more than 10,000 Australian Defence Force personnel over the next 10 years to operate next generation of field vehicles and trailers.

Also, **Re-Engineering Australia Foundation** announced that world-renowned **GCC laser engravers** are now available in Australia.



International

Termination of talks regarding the possible merger of BAE Systems and EADS

Following the announcements made by BAE Systems and EADS in September 2012 in relation to a possible combination of their businesses through a dual listed company structure, BAE Systems and EADS announce that they have decided to terminate their discussions.

BAE Systems and EADS believe that the merger was based on a sound industrial logic and represented an opportunity to create a combination from two strong and successful companies greater than the sum of the parts.

The merger would have produced a combined business that would have been a greater force for competition and growth across both the commercial aerospace and defence sectors and which would have delivered tangible benefits to all stakeholders. Discussions with the relevant governments had not reached a point where both companies could fully disclose the benefits and detailed business case for this merger.

BAE Systems and EADS are, however, confident that these would have provided a strong case to take to their shareholders.

From the outset of discussions between the parties, both BAE Systems and EADS were clear that they would proceed with a merger of their businesses only if a transaction structure could be created that aligned the interests of the parties' stakeholders and received their strong support.

BAE Systems and EADS worked constructively to deliver such a structure.

Notwithstanding a great deal of constructive and professional engagement with the respective governments over recent weeks, it has become clear that the interests of the parties' government stakeholders cannot be adequately reconciled with each other or with the objectives that BAE Systems and EADS established for the merger.

BAE Systems and EADS have therefore decided it is in the best interests of their companies and shareholders to terminate the discussions to focus on delivering their respective strategies.



Autonomous aerial refuelling inches closer

Northrop Grumman has announced that it has recently completed a series of flight demonstrations with DARPA and NASA Dryden Flight Research Center, marking an important milestone in DARPA's Autonomous High-Altitude Refueling (AHR) program.

The flight demonstrations, using two NASA Global Hawk UAVs – one configured as a



tanker and the other as a receiver - were carried out at Edwards Air Force Base, California, between 11 January and 30 May.

The tests saw the lead receiver aircraft extend and retract its aerial refuelling hose several times, completing all planned tests to validate the associated programme hardware and software. The trail tanker aircraft also successfully demonstrated precision control in formation with manual and automated 'breakaway' manoeuvres – important safety features and criteria of the test program.

The tests also saw two Global Hawk UAVs flown in close formation successfully for the first time in close formation – at times as close as 30 feet. During the close-formation flight, the aircraft rendezvoused and flew for more than 2.5 hours under autonomous formation control, with the majority of the time within 100 ft (or one wingspan) of each other.

The \$33 million DARPA AHR programme aims to demonstrate autonomous fuel transfer between two Global Hawks, enabling flights of up to one week endurance. AHR is a follow-on to a 2006 DARPA Autonomous Aerial Refueling Demonstration (AARD), a joint effort with NASA Dryden that used an F/A-18 Hornet as a surrogate unmanned aircraft to autonomously refuel via a probe and drogue from a 707 tanker.

Fred Ricker, vice president and deputy general manager for Northrop Grumman Aerospace Systems' Advanced Programs & Technology, said: "The technical developments that enabled these two high-altitude, long-endurance unmanned Global Hawks in close formation is an outstanding accomplishment for the AHR program. Coupled with the advanced design and technical implementation of aerial refuelling systems on board both aircraft, the demonstration has truly brought a concept to life, which has the potential to change the operations for unmanned aircraft utility and enable mission flexibility never before realised."



Littoral combat ship 'woefully inferior'

Time Magazine's John Sayen says the US Navy's newest ship, the Littoral Combat Ship (LCS), is woefully inferior to comparable ships. Sayen, a Marine Corps

veteran who has written extensively on the military, says that the LCS "cannot match the combat power of similar sized foreign warships costing only a fraction as much." Even with its mission modules, which won't be fully finished or tested for years, it compares poorly with similar ships in foreign navies.

As examples Sayen cites the Russian 2200-ton Steregushchy-class frigate, 30% smaller than an LCS, more heavily armed and costing only 20-25% as much and the Swedish Visby-class corvette which was one of the models on which LCS was based. It carries the same 57mm gun plus antisubmarine rockets and torpedoes, anti-ship missiles, a radar-deflecting hull, and a helicopter pad (but no hangar, apparently). It can also reach 35 knots but it is only a fifth as large.



He adds that the Chinese have more than 80 Houbei-class fast-attack boats in service. Each costs only \$40 million to build and displaces only 220 tons (one-fifteenth as much as an LCS). Yet they carry C-801 series anti-ship missiles that greatly outrange any weapon the LCS has.

“About the only threat the LCS might handle is the ‘swarms’ of Iranian machinegun and RPG-carrying speedboats in the Persian Gulf. Apart from the fact that the Iranian crisis will have been resolved for better or worse before most of the LCS fleet can be built, these Iranian small craft lack weapons big enough to menace any serious warship”.

Sayen’s full article is on Battleland. [Click here to view the article.](#)

Boeing’s truck-mounted laser



With the solid-state high-energy lasers already being tested on the sea and in the air, Boeing is continuing development of a truck-mounted system. The system is similar in concept to Boeing’s Laser Avenger that is intended for combating unmanned aerial vehicles (UAVs), but boasts a more powerful laser for countering a wider variety of threats, including rockets, artillery, mortars, as well as UAVs.

Testing in 2009 of the Laser Avenger used a 1-kilowatt, solid-state laser system mounted on an Avenger ground combat vehicle, but the truck-mounted system will see a 10-kilowatt, solid-state laser incorporated with the **High Energy Laser Mobile Demonstrator** (HEL MD) system. Boeing says there is also the option of incorporating an even more powerful laser in the future.

A joint development effort between Boeing and the US Army **Space and Missile Defense Command** (SMDC), the HEL MD program will now enter Phase II high-power testing as part of a follow-on contract that supports development and testing for the next three years. Field tests using the high-power, solid-state laser will be conducted over the next year to demonstrate the system’s ability to “acquire, track, damage and defeat threat-representative targets—*Boeing*



More Atlas SeaFox mine neutralisers for US

The US Navy is purchasing 10 semi-autonomous SeaFox mine identification and neutralization systems as part of an urgent operational need from 5th Fleet, aiming to put the systems on small boats used by explosive ordnance disposal technicians by next year, the service said last week.

The Atlas SeaFox is already used in mine countermeasures efforts in the Middle East by **MCM ships** and **MH-53 helicopters**. But after a Navy test in May validated the idea that SeaFox could be an asset to EOD divers as well, the service is rushing to procure more systems that include a fiber optics-guided vehicle equipped with sonar, a camera and a charge to detonate a confirmed mine—*Inside Defense*



Rolls-Royce awarded US\$103.3million for engine services

Rolls-Royce has been awarded a US\$103.3 million MissionCare contract by the US Department of Defense to provide support for the F405 (Adour) engines that power the US Navy's T-45 training aircraft.

The contract reflects the continued success of MissionCare support for the US Navy and exercises the fourth option year to provide guaranteed engine availability. This includes support ranging from on-wing through intermediate and depot level maintenance, under a five-year base contract that began in 2008. Rolls-Royce uses MissionCare to apply commercial Power By The Hour principles to the unique requirements of the defence industry.

Under the terms of the agreement, which is administered by the **Naval Air Systems Command** (NAVAIR), Rolls-Royce will provide inventory control, as well as integrated logistics support and required engineering elements for both the F405 engine and the aircraft gas turbine starting system.

This contract provides comprehensive propulsion services to more than 200 aircraft, operating at four main Naval Air Stations - Kingsville, Texas; Meridian, Mississippi; Pensacola, Florida; and Patuxent River, Maryland.



PARS 3 LR passes into full scale production

PARS 3 LR, the main armament for the German Army's Tiger helicopter has passed into full scale production. This follows the successful completion of the system's validation program for the German customer, an event marked by a direct hit against an intended target during a test firing carried out at the Meppen test range (located in Lower Saxony, NW Germany) on 20 September 2012.

The tests confirm that PARS 3 LR completely fulfils the specified system performance requirements under operational conditions.

With the PARS 3 LR, the German Army will receive what is currently the most high-performance fire-and-forget guided missile system for precision strikes against stationary and moving high-value targets while simultaneously assuring maximum protection for both helicopter and crew. The PARS 3 LR fire-and-forget system allows the helicopter to quit its position immediately after firing a missile, thereby limiting to the absolute minimum its exposure to the threat of retaliation. **Salvo firing** allows the engagement of various targets at the same time. Its technical lay-out design enables unambiguous target identification, target designation, and highly precise effects against a large target spectrum over the whole range spectrum.

The weapon is already generating significant interest in the export market. To meet a helicopter-launched air-to-ground Anti-Tank Guided Missile requirement in India, MBDA has proposed the PARS 3 LR multi-target, long range weapon system which has now been short-listed by the Indian MoD. Within the framework of this competition, PARS 3 LR has achieved an outstanding level of performance during two firing campaigns comprising six firings all of which struck their targets at the optimal hit point.



Breeze-Eastern wins \$40 million Sikorsky Black Hawk contract

Breeze-Eastern Corporation, the aerospace industry's only dedicated hoist and winch specialist, has been selected by

Sikorsky Aircraft to supply cargo hooks, electric rescue hoists and RAST (Recovery Assist, Secure and Traverse) probes for US Army UH/HH-60M Black Hawk and US Navy MH-60S and MH-60R Naval Hawk helicopters.

The five-year agreement could exceed \$40 million if production demands meet expectations under the agreement. The Army MEDEVAC helicopters will be equipped with rescue hoists; MH-60 and UH-60 helicopters will be equipped with cargo hooks. The MH-60R "Romeo" helicopters will feature RAST probe hoists. The armed services could procure up to 916 helicopters under the terms of the agreement with Sikorsky, known as Multi-Year VIII.

FORTHCOMING EVENTS.....next page



FORTHCOMING EVENTS

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

New Zealand Defence Industry Association Forum

DATE: 16-17 October 2012, Wellington New Zealand

ENQUIRIES: Sue Peck Email: sue@spconferences.co.nz www.nzdia.co.nz

At the forum you can join with other defence industry companies from New Zealand and overseas, and with key members of the New Zealand Defence Force and Ministry of Defence to gain greater understanding of the defence procurement processes and hear about future defence procurement plans.

Land Warfare Conference 2012

DATE: 29 October – 2 November 2012, Melbourne Convention and Exhibition Centre, Melbourne

ENQUIRIES: Land Warfare Conference Admin Support Office, Phone: 08 7389 5455;

Fax: 08 7389 5196; Email: lwcc@dsto.defence.gov.au

Web: <http://www.dsto.defence.gov.au/lwc2012/>

The Land Warfare Conference is a major event for users, providers, academics, designers and manufacturers to meet, present, share and exchange new and visionary ideas on Land Systems. Academics, commercial organisations, defence research institutions, and military are encouraged to attend and/or offer papers in the field of Land Warfare and related disciplines. An Exhibitor Booth Registration Form and Floor Plan are now available online.

MilCIS 2012

DATE: 6 – 8 November 2012, National Convention Centre, Canberra

ENQUIRIES: Consec – Conference Management, Phone: 02 6251 0675; Fax: 02 6251 0672;

Email: milcis2012@consec.com.au; Web: <http://www.milcis.com.au/>

MilCIS is an annual conference aimed at attendees from military and government organisations, academia, and defence industry, who contribute to key decisions in investments in communications and information systems. In addition to keynote presentations, technical presentations, panel discussions and tutorials, MilCIS features an exposition that provides an opportunity for exhibitors to demonstrate new technologies and promote their products and services to attendees. MilCIS is the only Australian conference focussing directly on the crucial technologies, products, systems and services associated with military communications and information systems.

6th Submarine Institute of Australia (SIA) Biennial Conference 2012

DATE: 14-15 November 2012, The Shine Dome, Canberra

ENQUIRIES: Mr David Nicholls (Executive Manager), Email execmgr@submarineinstitute.com

Phone: +61 413 133 391 Fax: +61 2 6260 5416

2012 will be a pivotal year for decisions concerning submarines. With the recent announcement of \$214m in funding for the Future Submarine Program and a significant boost in Sustainment funding for the Collins class, the SIA is grasping the



opportunity to present powerful arguments to contribute to the development of the 2013 Defence White Paper against the most challenging budgetary circumstances for Defence since 1938. Delegates to the 6th Biennial Conference will hear from a range of influential speakers from Government, overseas and both the Public and Private sectors as they discuss the pivotal considerations for Australia's submarine capability.

ADM's Social Media in the Defence Environment

DATE: 5-6 December 2012, Hotel Realm, Canberra

ENQUIRIES: ADM Events - Jamie Burrage, Ph: 02 9080 4321;

Email: jamie.burrage@informa.com.au **Web:** www.admevents.com.au

Social media in the private sector has been a bumpy journey, where companies tread a fine line between credibility and ridicule whilst getting their policies right. In the public sector, and Defence in particular, the evolution of social media has created opportunities, whilst also highlighting the need for social media policies. This inaugural conference will examine the opportunities that social media can bring to the Australian Defence Force and the Department of Defence. By mitigating the dangers of misuse, social media can be an excellent tool for announcements, for recruitment, for connecting and for selling. There is no denying the place of social media in the modern workforce. Hear speakers discuss what tools and policies can help harness social media into an essential part of the Defence workplace.

ADM2013: 10th Annual ADM Defence/Industry Congress

DATE: 12 – 13 February 2013, Hyatt Hotel, Canberra

ENQUIRIES: ADM Events - Jamie Burrage, Ph: 02 9080 4321;

Email: Jamie.burrage@informa.com.au **Web:** www.admevents.com.au

The annual ADM Congress has evolved into a pivotal event in the Defence calendar, attracting senior officials from all areas of the Defence Force and Defence Industry. It is a critical forum for any organisation operating within the defence business sector. Also do not miss the ADM Awards Dinner. The dinner is the perfect opportunity for you to continue networking with colleagues and new contacts made at the Congress. More details to be released closer to the date

Avalon 2013: Australian International Airshow and Aerospace & Defence Exposition

DATE: 26 February - 03 March 2013, Avalon Airport, Geelong

ENQUIRIES: Aerospace Maritime Defence Association Ph 03 5282 0500;

Email: airshow@amda.com.au; **Web:** <http://www.airshow.net.au>

The Australian International Airshow and Aerospace & Defence Exposition is the essential aviation, aerospace and defence event for the Asia Pacific. Industry-only trade sessions will be held Tuesday to Thursday (all day) and Friday will be both a trade and public day. The exposition will open each day from 9am until 5pm. Associated industry and technology conferences, seminars and symposia will be held at Avalon and in Melbourne and Geelong during show week.

