



# DEFENCE WEEK

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## LHD01 arrives in Australia

LHD01 has arrived in Australia after two months at sea. The loading operation on board the heavy sea lift ship Blue Marlin started August 4, 2012 in La Coruña (Northwestern Spain) waters, a specialised operation under the guidance of engineers from Navantia, BAE Systems and Dockwise.

Construction of the ship started in Spain in 2008, with the hull launched by Navantia in 2011.

Construction of the second hull for LHD02 has already begun in Spain and BAE Systems at Williamstown has also begun cutting steel for their contribution.

## NZDIA forum packs 'em in

By David Jones | New Zealand

Nearly 400 defence and industry delegates from New Zealand, Australia, US and other countries gathered in Wellington, NZ, for the annual NZDIA forum.

Among the speakers was NZ Minister for Defence Dr Jonathan Coleman, who said that, unlike defence departments elsewhere, NZ had not cut their defence budget, but had implemented a cost-savings program designed to save around \$400 million by 2015. He commented on recent developments, such as the new Washington Declaration agreement in July and US Secretary of Defense Leon Panetta's recent visit.



Outlining his plans to support NZ industry and to procure at “best value” rates on a playing field as level as possible, the Minister’s comments further reflected worldwide defence issues of lack of funding from governments that are already over-stretched.

Coleman’s comments were supported by **Chief of the Defence Force Lieutenant General Rhys Jones** (pictured), who spoke about NZ’s position as the “last stop on the planet” – small and out of the way ... and yet as a nation, they think globally, seeking markets for products and procurement suppliers in Europe, the UK, the US and Australia. LTGEN Jones said that by 2020, the NZDF would be smaller in terms of manpower, but would have the same workload.

Plans for 2015 include meeting all *White Paper* objectives, with support for key military capabilities. Plans for 2020 include emphasis on **C4ISR**, whole of government support and a focus on information warfare. And by 2035, reviews will have been completed on Amphibious Capability, air transport and surveillance, and improved C4ISR.

LTGEN Jones reinforced the priorities of sustainment of operations, the **Joint Amphibious Task Force** (JATF), reinvestment in defence and joint enablers. He said industry would be encouraged to support the NZDF by providing services, equipment and making sure its voice was heard.

Day two of the forum continued with similar themes. Former industry chief and now **Deputy Secretary for Defence Acquisition, Des Ashton**, focused on changes to defence acquisition arrangements. He discussed future acquisition projects including:

- pilot training and acquisition of new trainer aircraft similar in concept to **Air 5428**;
- increased maritime protection, a core ongoing role;
- acquisition of medium and heavy trucks under a similar plan to **Land 121**;
- Frigate Systems Upgrades (much has been done, more to go);
- possible acquisition of more **Super Sea Sprites** which Australia chose not to progress;
- further developments in the Network-Enabled army;
- Littoral Operations Support Capability, which might be a ship, or might not; and
- enhanced underwater and surface surveillance and reconnaissance (**AP3K Orions**).



## Reservists budget constraints a ‘key issue’

By Julian Kerr

**Budget constraints mean the number of training days available to each Army Reservist “remains a key issue under consideration for Army”, a Defence spokesperson told ADM October 11, 2012.**

“Army is very conscious that the minimum number of days required to maintain long service and housing entitlements is 20 days. This remains Army’s minimum aspiration for every Active Reservist.”

The spokesperson did not respond to questions on how many Reserve training days have already been cancelled and how many Reservists have been affected.



According to well-informed sources, training days allocated by Sydney-based 2nd Division, which commands all six Reserve brigades, have been slashed until well into next year. Priority for the Reserve was centred on force generation in support of current operations in the Solomon Islands and Timor Leste and engagement in **Plan Beersheba development**, which would see the Army Reserve become even more relevant for the future, the spokesperson said.

“Budget constraints require Army to reprioritise funding to meet its highest priorities. While Army will continue to review these priorities, there will be an impact on the Reserve as there will be across most areas of Army.”

The spokesperson also confirmed that while key strategic study tours were still being conducted by the Australian Command and Staff College, they were at a reduced scale “to meet budget imperatives”.



## M777A2 howitzers for Army

The government has this week approved the purchase of an additional two artillery batteries of Lightweight Towed Howitzers, comprising 19 M777A2 155mm howitzers for a cost of around \$70 million.

In October 2009 it was announced that four batteries of 35 M777A2 155mm Lightweight Towed Howitzers would be acquired. In May this year the cancellation of the acquisition of self-propelled howitzers was announced in favour of acquiring additional towed artillery. The additional acquisition that has just been announced means the Army will now have six batteries of M777s.

The M777 has a titanium and aluminium alloy structure able to fire up to five rounds per minute. It is capable of being transported by **Chinook helicopters** and **C130 aircraft**. The full mission system comprising howitzer, towing vehicle and crew transport vehicle, is able to be transported by C17 aircraft.

This acquisition decision means that the additional M777s will be acquired off the current production line in the US and avoids potential additional costs to restart such production. The government will consider additional support and facilities costs associated with this acquisition later in the 2012-13 Financial Year.

## ADM Congress 2013

**Date:** 12-13 February 2013, Hyatt Hotel Canberra  
**Enquiries:** Jamie Burrage, Tel: +61(2) 9080 4321;  
 Email: [Jamie.burrage@informa.com.au](mailto:Jamie.burrage@informa.com.au)

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## Rheinmetall in Adelaide

German defence company Rheinmetall Defence is expanding its presence in Australia with the newly founded subsidiary Rheinmetall Simulation Australia Pty Ltd. The new company will provide Rheinmetall customers with advice and support in simulation and training technology. Adrian Smith has been appointed Managing Director of Rheinmetall Simulation Australia, which will be headquartered in Adelaide.

Rheinmetall's business unit, Simulation and Training, is Europe's second largest simulation and training company and the largest supplier of defence simulation equipment for land warfare operations. The company will provide advanced simulation based training products and services to the Australian armed forces in the maritime, air and land environment and plans to aggressively grow the company to be the major supplier of these products in the region.

South Australian Minister for Defence Industries, **Jack Snelling**, who was visiting Rheinmetall Defence in Bremen at the time of the announcement, said it was a coup for South Australia that they have decided to grow their business in South Australia, adding that the SA government was looking forward to a prosperous relationship with Rheinmetall.



## Plasan's RPG defeat system for Bushmasters?

By Tom Muir

Over the past 18 months Thales Australia and Plasan, already cooperating in the development of protection systems for the Bushmaster family of vehicles and the Hawkei, (preferred contender for the Land 121 PMV -L MSA option) have added Plasan's lightweight Flex Fence 2 RPG defeat system to the protective

**systems now available for these vehicles—should Defence want them?**

The company believes it needs to be one step ahead of what the customer is requiring so that if the operational environment changes in Afghanistan to a more increased RPG threat then Thales has a highly effective solution already designed for Bushmaster which will see a significant reduction in the operational user requirements timetable, rapid deployment and ultimately reduced threat exposure to ADF personnel.

Whilst there are various types of RPG defeat systems on the market including lightweight net, bar armour (aluminium and the much heavier steel) and even active defence systems, Thales has selected Light Fence from the Plasan Ultra FlexFence Family (UFF) of RPG defeat solutions comprise.

Developed in consultation with potential customers, with more than 100 tests carried out during the trials program, FlexFence has been designed to defeat the Russian RPG-7 rocket propelled grenade (RPG) fitted with a high explosive anti-tank warhead. According to Plasan, its FlexFence system is not only lighter than the widely deployed bar armour, but is more effective and cheaper, noting that bar armour is effective against about 60 per cent of incoming RPGs.



The Plasan system can be tailored to suit the specific platform and is attached to the hull using Velcro. The 50mm wide ballistic material is mounted on the vehicle with a standoff of 160 mm, thus ensuring minimal increase to the vehicle silhouette. The weight of the material is 8 – 10 kg per square metre. FlexFence is designed for installation on lighter vehicles such as the Hawkei, which cannot be fitted with traditional heavier armour.

### How does the system work?

The RPG-7 warhead has a nose-mounted piezo element. When the rocket strikes a hard target, the piezo element is crushed, passing an electric pulse, which detonates the HEAT warhead. If the piezo fuze is not struck, the self-destruct delay burns out after approximately 9 seconds and sets off the self-destruct detonator. (With early PG-7 rounds, if the nose cone is dented so that the two skins are in contact, the resultant short circuit may cause the piezo fuzing to fail.)

It appears that the Plasan system works by shorting out the piezo element thus isolating it from triggering the HEAT warhead and somehow neutralising the self-destruct detonator. According to Plasan common RPG-7 armour piercing types include the PG-7M, PG-7V and the PG-7L. Upon impact with Plasan's passive defeat mechanism (located at a set stand-off distance from a vehicle's exterior) these warheads will react in one of three ways:

- Neutralisation with no detonation (silent neutralisation) in which the warhead's electrical ignition circuit is short-circuited upon impact, there is no explosion of the warhead and no penetration. The vehicle's hull receives a slight energy trauma.
- Neutralisation with detonation (violent deflagration) whereby the warhead's electrical ignition circuit is short-circuited upon impact but there is secondary explosion of the warhead upon impact. There is no jet-forming penetration, but the vehicle's hull experiences a major energy trauma.
- Jet-forming detonation when the warhead's electrical ignition circuit is not short-circuited upon impact and there is full explosion of the warhead, formation of shaped charge jet and penetration of the vehicle's hull.

The company says that its UFF product features a high rate (80%) of 'silent RPG neutralisations' with minor mechanical stress on vehicle hull, with the results supported by extensive modelling and analysis as well as numerous live-fire tests (with more than 150 rounds tested). While the composition of the passive defeat material is classified it is understood to include fabrics and metal elements, which neutralise the warhead without detonation.

## GHD celebrates Anthony Galea's defence recognition

**Anthony Galea, a project manager based in GHD's Nowra office has been named Young Achiever of the NSW Year by the Australian Industry Defence Network (AIDN). The award predominantly acknowledges Anthony's work on the MRH90 Helicopter Facilities project.**

**Tim Owen MP**, Member for Newcastle presented the award to Anthony during the Annual Dinner of the AIDN in September 2012 in front of a range of distinguished military, governmental and industry guests.



## Defence Capability Reform



Defence Minister Stephen Smith and Defence Materiel Minister Jason Clare have announced a number of measures to be introduced as the next phase of reforms to Defence procurement to specifically improve reporting and accountability mechanisms. Some of the measures to be introduced are included below, however the full text of the joint statement is available at [www.defence.gov.au/minister](http://www.defence.gov.au/minister). On the same site also see the Government's Response to the Senate Inquiry into Defence procurement.

### Managing Contractors

The Defence Materiel Organisation (DMO) will pilot the use of a managing contractor model for the delivery of Defence capability. The managing contractor model has been used successfully throughout Australia by both public and private sector organisations, particularly for the delivery of infrastructure projects. It has proved a highly flexible delivery model and could be tailored for defence capability projects, including the delivery of both acquisition and sustainment activities.

DMO intends to recommend the first project to pilot the managing contractor delivery model by the end of this year. In the first instance, the pilot will focus on a land acquisition project at the lower end of complexity to test the delivery model. Subject to the outcomes of the pilot, DMO will consider the application of the model for other acquisition and sustainment activities.

The managing contractor model will further develop the close working relationship between Defence and industry and seeks to improve effectiveness and efficiency in project delivery.

### DMO Negotiation Cell

Defence will establish a highly skilled negotiation cell within DMO to significantly improve the DMO's conduct of commercial negotiations. The cell will include members from outside the DMO who have significant commercial experience, particularly in major contract negotiations.

The DMO will initially draw on a number of highly regarded external members who currently assist DMO as part of the Gate Review process. It is intended that the external members will assist in mentoring and developing Departmental personnel in the conduct of contract negotiations. The cell members will be assigned to oversight or participate in negotiations, potentially as lead negotiator, to drive better commercial outcomes for



Defence when dealing with industry.

A pilot program is currently underway, utilising an external lead negotiator and external technical adviser for negotiations with Rheinmetall MAN on Project Land 121Phase 3B.

### Structural Reform

The CEO DMO has been asked to undertake a review of the structure and functions of the various Divisions within DMO, which manage capability projects. The review will seek to establish the optimal structure for these Divisions to drive improved performance, accountability and reporting in relation to projects.

This reform follows identification by the Government of a number of projects that have not been managed as effectively as they should have been, including Land 106 (M113 upgrade); Land 112 (ASLAV upgrade); JP 2070 (Lightweight torpedo); and Air 5418 (JASSM).

The first review will be a structural review into Land Systems Division, which has responsibility for a number of problem projects, including Land 106 and 112 (see above) and Land 144 Phase 1 (Countermine Capability); Land 134 Phase 1 (Combat Training Centre, Live Instrumented System); and Land 40 Phase 2 – (Automatic Grenade Launcher).

The review will be led by CEO DMO and will build on current business reforms being implemented across the Division.

## 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 **Minister for Defence Science and Personnel, Warren Snowdon** and **Minister for Defence Materiel, Jason Clare**, announced the roll out of high-tech devices that will help in the treatment of injured soldiers by measuring the impact of explosive blasts. The **blast gauges** measure the impact of blasts, particularly from **Improvised Explosive Devices** (IEDs).

Defence officials announced that two Australian companies will continue to manufacture the iconic **Australian Slouch Hat** for the Australian Army and Royal Australian Air Force.

**Boeing** announced that they will continue assuring the worldwide availability of **C-17** aircraft through a \$2 billion follow-on contract it recently received from the US Department of Defense.

## International



### USN concerned over foreign sub-hunting capabilities

Emerging foreign capabilities to hunt and defeat stealthy submarines will force the US Navy to find new ways to maintain



**dominance in the undersea warfighting arena, US Chief of Naval Operations, Admiral Jonathan Greenert has written in new internal guidance.**

Greenert says revolutionary warfighting concepts must be developed to preserve the Navy's undersea edge in the coming years despite an array of rising challenges. The undersea environment "is the one domain in which the US has clear maritime superiority - but this superiority will not go unchallenged," he writes.

New sub-hunting technologies and other developments could jeopardise this advantage, according to the memo, which launches a major assessment to grapple with the challenges and inform USN investment plans for fiscal year 2015 and beyond.

"A growing number of nations are developing capabilities to find and defeat submarines and exploit the undersea domain for their own purposes," ADML Greenert writes, without citing examples. "At the same time, commercial and academic interests are monitoring and exploring the undersea domain to unprecedented degrees. To keep our undersea advantage, we need a combination of new operating concepts, innovative technology and the continued proficiency and confidence of our sailors."



## Surcharge reduced for FMS purchases

The US Defense Security Cooperation Agency is slightly reducing the Foreign Military Sales (FMS) administrative surcharge that other countries pay when buying US weapons. The Arms

**Export Control Act requires that FMS activities be conducted at no cost to the US government and mandates an administrative surcharge for FMS deals to recover all US government costs incurred to execute, manage and oversee these efforts.**

The surcharge rate was set at 3.8 percent in 2006, but it will drop to 3.5 percent for all new FMS and building partnership capacity cases "accepted" on or after November 1, according to a memo from agency chief **Vice Admiral William Landay**.

The agency reviewed the rate to the "dynamic business environment of FMS over the past five years," the memo states. The reduction in the charge, which was approved by Pentagon Comptroller **Robert Hale**, comes after the agency determined that the FMS trust fund administrative account has reached a substantial balance, Landay wrote. The balances gives the agency sufficient time to recognise and react to major changes in the FMS business model before those changes threaten the account's solvency, he added.

For more in depth analysis on Australia's use of the FMS framework, see *ADM's* October edition.





## Low-level flight safety for transport aircraft

An innovative Terrain Following and Terrain Avoidance (TF/TA) system under development at Elbit Systems, in cooperation with Northrop Grumman, will enable pilots to fly and manoeuvre more safely in Terrain Following/Terrain

**Avoidance (TF/TA) flight mode under all weather conditions, day and night.**

Under the collaborative development, Elbit Systems' TF/TA head-up display (TA/TF HUD) application is coupled with Northrop Grumman's AN/APN-241 Terrain Following Radar for an avionic upgrade for existing or new C-130 Hercules transport aircraft. The TF/TA HUD demonstrator is expected to fly within the upcoming year on an international customer's C-130 Transport Aircraft.

The TF/TA system relies on a Digital Terrain Elevation Database and the Terrain Following Radar as an active sensor, driven and controlled by Elbit Systems' Smart Displays. Implemented as part of a "Glass Cockpit" concept, the system is positioned as a competitive and attractive enhancement for C-130 modernization and upgrading.

The system evolved in Elbit Systems' Futures Lab, the company's innovation centre tasked with rapid prototyping and proof of concept evolving aerospace systems. The TF/TA system has already been selected for integration into an ongoing C-130 upgrade program. Northrop Grumman's AN/APN-241 radar has been selected as the standard radar for the Lockheed Martin C-130J Super Hercules and Alenia C-27J transport aircraft. Additionally, the AN/APN-241 radar has been integrated and installed on the CASA C-295 transport aircraft—*Defpro*



## India to produce export variant of Sukhoi stealth fighter

**India will begin production of an export variant of Russian plane-**

**maker Sukhoi's T-50 stealth fighter from 2020, according to RIA Novosti.**

"The technical characteristics have been confirmed to our (Russia and India) defence ministries. We propose serial production of the plane should start by 2020," **Russian Defense Minister Anatoly Serdyukov** said.

T-50 is a prototype of a multirole stealth fighter jet currently undergoing flight testing by the Russian Air Force. The plane will feature an electronically-scanned active-array radar, supercruise capability, high manoeuvrability and low radar and infrared signatures. Sukhoi claims it will have significantly better performance than the US-designed



**Lockheed F-22 Raptor** which is now in service.

Russia also hopes to sign a deal with India by the end of this year for an additional batch of 42 **Sukhoi Su-30MKI** fighter aircraft of an improved standard to those already in service in India, he said.

“Russia has presented India with a contract for delivery of another 42 Su-30MKI aircraft. I hope it will be signed by year-end,” he said.

The new Su-30MKI will feature an advanced active electronically-scanned array radar system as well as modified electronic warfare systems and the ability to fire the land-attack variant of the BrahMos Russian-Indian supersonic cruise missile which has been updated by installing the advanced satellite navigation systems from Russia’s long-range cruise missiles, adding GPS-GLONASS technology to the existing doppler-inertial platform—*RIA Novosti*

## Another railgun under USN evaluation



**In February this year, the Office of Naval Research (ONR) test-fired a prototype electromagnetic railgun that had been built by BAE Systems for the US Navy. Last week ONR announced that it was now evaluating a second railgun prototype, made by San Diego-based General Atomics. As with the BAES device the latest prototype has been installed at the Naval Surface Warfare Center in Dahlgren, Virginia.**

Unlike conventional guns, railguns don’t use explosives such as gunpowder to propel their projectiles. Instead, they incorporate a sliding metal armature that sits between two conductive metal rails. Once the railgun is activated, an electrical current flows up one rail, through the armature, and back down the other rail. This accelerates the armature forward at great speed.

Depending on the design, the armature might actually be part of the projectile, or it may simply be used to push on the back of a separate projectile. In any case, that projectile exits the barrel at a speed of 4,500 to 5,600 mph (7,242 to 9,012 km/h), making



railguns well-suited for use as long-range weapons. Ultimately, the Navy would like to see a ship-based device capable of shooting a distance of 50 to 100 nautical miles (57 to 115 miles/93 to 185 km).

There are currently no details available on the differences between the two prototypes, although program manager **Roger Ellis** has stated that the teams “are both delivering very relevant but unique launcher solutions.” Both BAE and General Atomics are said to be working on increased firing rates, which entails automatic projectile-loading systems and thermal management systems for the barrel—*ONR/Ben Coxworth Gizmag*

## New anti-laser eyewear for pilots

**A new type of laser eye protection (LEP) for pilots is being tested by the UK Ministry of Defence.**

The **Defence Science and Technology Laboratory** (Dstl) has been working with **Defence Equipment and Support** (DE&S) to evaluate and assess the specially designed spectacles. The LEPs can filter out different wavelengths of light from the spectrum, including those used in various laser weapons and laser pens, which are becoming increasingly available from the internet.

**Dr Craig Williamson**, Principal Scientist at Dstl, said there had been an increasing number of incidents of inexpensive lasers being used to distract pilots, so Dstl has been researching advanced technologies to mitigate this hazardous and potentially lethal distraction.

Unlike conventional LEP, which tends to filter out and block just one wavelength from the colour spectrum, the prototype spectacles, made by Glasgow-based company **Thin Film Solutions**, can filter out a range of different laser wavelengths, allowing greater operational benefits and flexibility for pilots. This is achieved by a composite structure comprising a polycarbonate layer, made with a special absorbing optical dye, bonded to a thin glass lens with a special coating to reflect certain wavelengths.

The work has benefited from an established partnership between Dstl and the US Air Force, with testing having taken place in May of this year. Further testing is to be conducted later this year, including optical performance and environmental testing by Dstl, and laser dazzle and performance testing at QinetiQ.—*Defpro*

## Four USN ship classes to receive Fire Scout?

**The US Navy is in the early stages of integration testing involving its MQ-8B Fire Scout unmanned helicopter and four classes of ships after US Special Operations Command requested additional maritime intelligence, surveillance and reconnaissance capabilities.**

Fire Scout developer **Northrop Grumman** will oversee the integration testing on eight very different ships—two frigates, two **Littoral Combat Ships**, three destroyers and a **Joint High Speed Vessel**—to look at what modifications would be required to support putting Fire Scout on board and provide up to a 24-hour capability for flight operations, the Fire Scout program manager told *Inside the Navy* on October 11, 2012—*Inside Defense*



## Green light for UK MoD's LOSA RED program

The UK Ministry of Defence (MoD) has awarded a contract for a new program providing innovative integration and experimentation in the land environment. In the Land Open Systems Architecture (LOSA) Research, Experimentation and Development (RED) program, SELEX Galileo is providing prime leadership and management for a cross-industry delivery team, working in unison with the customer.

LOSA is an open architecture for systems integration and interoperability in the land environment. It brings together the generic architectures under development for soldier, vehicle and base systems. This first phase of LOSA RED focuses on using current assets and resources to show how LOSA can save or conserve resources, whether time, money or manpower, to deliver operational benefit. The results and lessons will then be fed forward into subsequent phases.

LOSA RED will be based around five packages comprising **power and data interoperability**, and **soldier/vehicle/base integration**. The set of experiments will be based upon relevant and realistic scenarios and will take place early October.

## FORTHCOMING EVENTS.....next page

**ADM** AUSTRALIAN DEFENCE MAGAZINE

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# FORTHCOMING EVENTS

For a full list of defence and industry events, head to **ADM's online events page at [www.australiandefence.com.au](http://www.australiandefence.com.au)**

## 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](mailto: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](mailto: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](mailto: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](mailto:jamie.burrage@informa.com.au) **Web:** [www.admevents.com.au](http://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](mailto:Jamie.burrage@informa.com.au) **Web:** [www.admevents.com.au](http://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](mailto: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.

