



DEFENCE WEEK

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Combat bridging capability

Tom Muir

In early August Defence released two Requests For Tender (RFT) for various military bridging requirements under Land 155's Enhanced Gap Crossing Capability.

With a military load classification of 70 tonnes, the first RFT sought:

- 4 x Floating Bridge Systems (FBS) for wet crossings greater than 100m with the added capability to ferry or raft.
- 5 or 7 x Rapid Emplacement Bridges (REB) for clear span crossings greater than 40m.
- 4 x Modular Bridge Systems (MBS) for clear span crossings greater than 15m, and an ability to span crossings greater than 45m.

The RFT included two draft contracts for each bridge system, one for acquisition and the second for support. Preference will be given to tenderers who provide a tender for both the acquisition and support components of anyone bridge system.

Also sought under a separate RFT was a **Footbridge System** which should be capable of construction using a minimum of manpower and equipment, both of which should be inherent to the Combat Force. The initial requirement is for 10 footbridge sets whose key requirements are to provide a dismounted infantry gap crossing solution where each individual Footbridge set is equipped to span a 20 metre dry gap and that in combination with no more than five individual sets, can span a 100 metre wet gap. The system





must be capable of construction and recovery without **Materiel Handling Equipment (MHE)**.

Also required is ILS to support the deployment and sustainment of the Footbridge Systems comprising initial spares of 12 months, and Training to operate and maintain the footbridge capability.

BAE Systems Australia has been quick to respond to the **Rapid Emplacement Bridges (REB)**

element of the requirement based on the **British Army's BR90 General Support Bridging System**, coupled to a range of flexible transport and deployment options, as well as comprehensive through-life support and maintenance.

The BR90 concept was originally developed as a modular asset offering a flexible bridging solution to fulfil the British Army's Close and General Support Bridging requirement, offering the ability to bridge gaps between 14 metre and 60 metre.

According to BAE Systems Australia their proposed solution offers flexible mobility, coupled to options offering advanced fabrication materials and launch equipment to suit a range of terrain and gap profiles (potentially up to 50 metres).

Interestingly the NZDF is acquiring a REB system based on bridging equipment supplied by **GD European Land Systems** carried on a **MAN Truck from Rheinmetall MAN Military Vehicles**. The prime mover and bridging equipment have been acquired as part of a collaborative arrangement with the UK MOD, which also purchased the same equipment from **GDELS** and **Rheinmetall MAN**.

The bridge itself is an aluminium welded structure consisting of two halves coupled together at the centre. It is lightweight, corrosion resistant, torsionally flexible and strong enough to support MLC (Military Load Class) 40 wheeled and tracked vehicles under normal crossing conditions. It can also support up to MLC 50 wheeled vehicles under a caution crossing.

According to the NZDF three of the four systems (truck and bridge) have been delivered and are currently going through the Introduction into Service program with the NZ Army. The fourth system will be delivered in the third quarter of 2013.

For more on the new managing contractor framework that the DMO is trialling on Land 155, keep an eye out for the December 2013/January 2014 edition of *ADM*.

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.





Inmarsat's L-Band Tactical Satellite solution has been acquired by the US government.

Inmarsat's L-band TacSat solution

Tom Muir

Inmarsat, which has been exhibiting at MilCIS2013 this week, has announced that its L-Band Tactical Satellite (L-TAC) solution has been successfully tested and acquired by the US government, greatly enhancing its communications capabilities in the field.

Since its launch in July this year, the L-TAC solution has garnered positive acceptance among government users who have noted its voice quality, ease of use and speed of setup. The service complements the scarce UHF satellite capacity with a single-hop, low-latency voice and data service, providing tactical L-band service when UHF channels are inaccessible or unavailable.

Inmarsat has reported that governments and militaries in more than a dozen countries around the world have successfully trialled or are currently evaluating the recently launched L-TAC service for communications-on-the-move. The company also revealed that two of the world's largest armed forces have already acquired Inmarsat's latest satellite communications solution, greatly enhancing their communications-on-the-move.

Under a contract with satellite communications specialist, **Stratos Inc**, the ADF leases **Inmarsat-B voice and data services** used for strategic, tactical and logistic communications among a number of naval and land-based units. These services will be used by the ADF for strategic, tactical, and logistic communications among a number of its naval and land-based units. The contract provides for four Inmarsat-B leased circuits for up to five years.

Stratos provides satellite communications to a number of military organizations around the world, including the **US Department of Defense**, the **US Navy**, the **Canadian Department of Defence**, and the **UK's Ministry of Defence**.

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





Qantas will continue to maintain aircraft in Brisbane and conduct line maintenance at 19 ports around Australia.

Qantas to close Avalon heavy maintenance facility

Qantas will close its Avalon heavy maintenance facility at the end of March 2014 due to the gradual retirement of its Boeing 747 fleet making the operation unviable.

Qantas domestic CEO **Lyell Strambi** said that after a comprehensive review it was clear that despite the best endeavours of the

airline, employee representative groups and suppliers there was no workable solution to continue operating the sub-scale maintenance facility.

“Qantas is gradually retiring our fleet of Boeing 747 aircraft, which means there is not enough work to keep our Avalon base viable and productive,” Strambi said.

Qantas will continue to maintain aircraft at its major heavy maintenance facility in Brisbane and conduct line maintenance at 19 ports around Australia including Melbourne.

Strambi said Qantas was the only major airline that does heavy maintenance in Australia.

“Qantas is committed to engineering and maintenance in Australia and will continue to do the vast majority of its maintenance in Australia, employing thousands of people,” he said.

“We have invested \$30 million this year to upgrade our maintenance facilities in Brisbane and we will continue to do heavy maintenance on more than 110 aircraft in this facility, including our fleet of Boeing 737s, Boeing 767s and Airbus A330s.”

Strambi said Qantas will explore redeployment opportunities for the 53 impacted Qantas employees and provide generous redundancy packages. Qantas will also work closely with Forstaff, which employs 246 contractors at Avalon.

November ADM 2013 OUT SOON!

- ADM editor Katherine Ziesing interviews Defence Teaming Centre CEO, Chris Burns
- JP2072: a potted history
- Beersheba and beyond – digitising Army
- Where to now for NCW
- And much more!

**For subscription information email
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NZ DIA selects BAE Systems Detica for ICT security panel

BAE Systems Detica has been selected by the NZ Department of Internal Affairs (DIA) as a supplier for the government's professional security services panel.

The new panel will provide a range of security services to different New Zealand government agencies.

BAE Systems Detica anticipates delivering services which will include:

- computer forensics, investigation and security incident response;
- risk management, assessment and assurance;
- security governance, architecture and design;
- security consulting and review ;
- certification and assurance; and
- network and application security testing.



Columbia Helicopters will assist in the retrograde of the Chinooks

Not upgrading but 'retrograding' our Chinooks

Tom Muir

Oregon-based aircraft operating company Columbia Helicopters, is assisting the Australian Army in the retrograde of its two CH-47D Chinook multi-mission helicopters from Afghanistan.

Some 15 Columbia Helicopters employees, including mechanics and electricians, as well as quality control and supervisory personnel, have been preparing the helicopters for shipment in Kandahar, Afghanistan, under a contract with the ADF, since August 2013.

Specifically, the work involves removal of the rotor blades and heads, forward transmission, aft pylons and aft vertical shafts, which, along with the helicopter airframes, will be loaded aboard a RAAF's **C17 aircraft** for return to Australia. The technicians also carried out heavy phase maintenance on the **CH 47D** helicopters. Having flown 5,600 sorties since deployment on Operation Slipper in 2006, the two helicopters are scheduled to be returned to the 5th Aviation Regiment at the RAAF base in Townsville, Queensland.

Columbia Helicopters marketing vice-president, **Todd Petersen**, said the company has been working with the Australian Army in Kandahar over the last three-years. "Columbia Helicopters maintenance crews will accompany the helicopters to Townsville, where they will reassemble the aircraft," he said.

Even though the contract work is scheduled to complete by the end of this month, the company will continue to maintain a full-time, on-site presence in Townsville, helping the army with maintenance support on the CH 47D for the next several years.





The Close Combat Vehicle (CCV) will not replace any vehicles in the current Canadian Forces fleet

Canada's CCV program an Land 400 lookalike?

Tom Muir

Somewhat similar to Australia's proposed Land 400 armoured vehicle program, Canada's Close Combat Vehicle (CCV) program aims to provide Canadian Forces with a medium-weight armoured vehicle that is both very well protected and tactically (off-road) mobile.

The CCV is not replacing a vehicle in the current Canadian Forces fleet and its fundamental purpose is to bridge the gap between the current light (5-25 tonnes) and heavy armoured (45 tonnes +) vehicle fleets by providing the Canadian Army with an operational capability that can predominantly operate with the Main Battle Tanks and the other Canadian Forces armoured vehicles within a high-threat environment.

The CCV project will involve the procurement of 108 CCV, to include **Infantry Fighting Vehicle, Forward Observation Officer, Engineer Reconnaissance, and Tactical Command configurations**. The project scope also includes the option to procure up to 30 additional vehicles, as well as the development and implementation of an in-service support contract.

In competition with local industries, **GDLs Canada** and **Armatec**, proposing the **PiranhaV**, **Saab** has partnered with **BAE Systems** to submit a competitive bid for the Canadian DND's multi-billion dollar close combat vehicle (CCV) program, presumably based on a **Swedish Hagglunds design**. Saab has already selected ABB Analytical for sourcing, supply and production of an electro-optic (EO) control system for the vehicles.

"With the CCV program, Saab is continuing to grow and invest in Canada, and in order to be ready for the start of the program, Saab has already transferred its technology to ABB creating opportunities for the Canadian industry into major worldwide procurement programs," Saab Technologies Canada sales and marketing executive vice-president Patrick Palmer said.

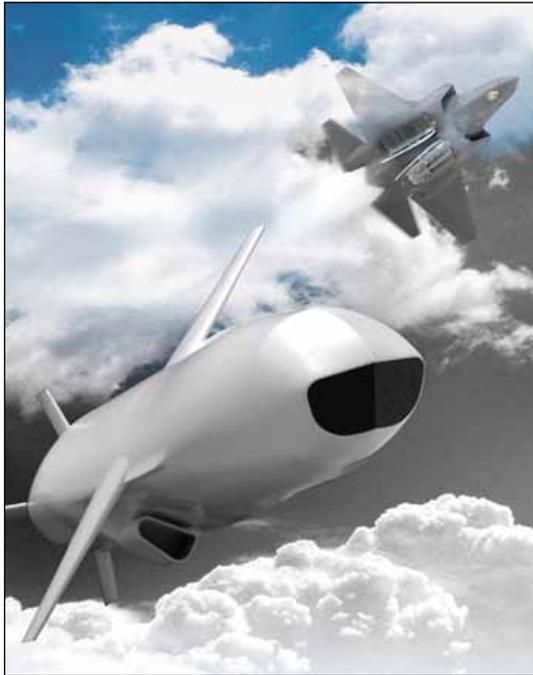
Nexter Systems was among those submitting earlier bids and offered two solutions for the CCV requirement. The first solution proposed was the **VBCI 25** equipped with a 25 mm one-man turret, which is based upon the vehicle currently in use by the French Army. The second was the VBCI 30. It utilises the same platform, but is equipped with the 30mm two-man HITFIST turret manufactured by **Oto Melara Finmeccanica**.

Both bid submissions were based upon the combat-proven VBCI, which is the only wheeled 8x8 platform, developed from its inception as a combat vehicle designed to operate with tracked main battle tanks (MBTs). Together, the two bids represent a significant commitment and investment by Nexter to the CCV program to offer the widest choice of capability to the Canadian Forces. Both vehicles underwent rigorous testing in evaluation trials at the Aberdeen Test Centre, Maryland US.

However the Canadian Centre for Policy Alternatives – Rideau Institute (CCPA-RI)



published a report entitled “*Stuck in a Rut*” which recommends the cancellation of the CCV program based on two principal arguments: That CCV is based upon outdated Cold War main battle tank (MBT) doctrine; and that the Light Armoured Vehicle III Upgrade (LAV III UP) satisfies the CCV program requirements. It is understood that the Canadian Government has decided against cancelling the program.



Kongsberg JSM for RAAF Super Hornet?

Tom Muir

Boeing and Kongsberg Defense Systems have recently completed a successful check of the Joint Strike Missile (JSM) on an F/A-18F Super Hornet at the Boeing St. Louis facility to ensure the weapons fit on the aircraft’s external pylons.

The JSM, which is being designed and built by Kongsberg, is a long-range, low-observable stand-off weapon able to engage land and naval targets. The test brings the JSM one step closer to Super Hornet compatibility. Boeing and Kongsberg plan to conduct wind tunnel

testing on a **Block II Super Hornet** early next year.

This follows similar fit checks on the Joint Strike Fighter which suggests that the same weapon can be installed and integrated with the current RAAF Super Hornet fleet and then switched to the JSF, when introduced into RAAF service.

The JSM missile system is designed for both **Anti Surface Warfare (ASuW)** and **Naval Fire Support (NFS)** missions in open sea, the littoral and over land. To comply with operation in these areas the missile system has been designed with:

- Advanced engagement planning system which exploits the geography in the area
- Accurate navigation system for flight close to terrain
- High manoeuvrability to allow flight planning in close vicinity to land masses
- Imaging target seeker for discrimination of land and non-targets

The JSM long range facilitates: launch platform standoff, flexibility in engagement planning, sea control/sea denial over a wide area, and naval fire support and strike missions at long distance.



Defence Supply Chains Summit

4-5 December 2013 | Grand Chancellor Hotel, Adelaide

Enabling industry to access supply chains in the Defence market



Attend this summit to gain perspectives from Defence primes, hear case studies from SMEs, learn risk and cost mitigation strategies and network with an array of Defence stakeholders.

View the agenda by clicking [here](#).

Defence Supply Chains Summit

The Defence Supply Chains Summit, 4-5 December 2013 in Adelaide, will feature The Hon Jack Snelling MP Minister for Defence Industries, Government of South Australia, Steve Wynd of BAE Systems Australia, Brendhan Egan of Defence Materiel Organisation and many more expert speakers.



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, RAAF F/A-18A/B Hornets and personnel from Number 3 Squadron arrived in Malaysia to join defence forces from Malaysia, NZ, Singapore and the UK for **Exercise Bersama Lima 2013**.

Now in its fifth year the **Snap-on Tools** prestigious annual awards program Apprentice of the Year received over 100 entries from apprentices across heavy vehicle, marine, aviation and automotive trades. However received no entries from the defence sphere.

And, an important step in the introduction of the Royal Australian Air Force's electronic warfare capability commenced, with the first pilot instructor commencing flying on the **EA-18G Growler** in the US.



International



The order to supply small-caliber rifle ammunition is worth approximately \$US387million.

a mix of 5.56mm, 7.62mm and .50-caliber high-quality military ammunition.

In 2012, the **US Army Contracting Command, Rock Island (ACC-RI)** selected ATK to continue production of small-caliber ammunition and operation and maintenance of the Independence, Mo., plant under new contracts. The contracts initially cover the next seven years through FY19, with a potential award term for a total contract term of up to 10 years.

ADM note: ATK are still in the running for Australia's **DMMA** contract, teamed with local SME, **NIOA**.

ATK receives small-caliber Ammunition order

ATK has received orders for approximately \$US387 million for small-caliber rifle ammunition to be produced at the Lake City Army Ammunition Plant.

The orders fall under the plant's new production contract, which began October 1, 2013, and include



Work is expected to be completed in 2015.

NGC to build three more Global Hawks

The US Air Force has awarded Northrop Grumman Corporation a \$US114 million advance procurement contract in preparation to build three more high-flying RQ-4 Global Hawk unmanned aircraft systems (UAS) and associated sensors.

The combat-proven intelligence, surveillance and reconnaissance (ISR) aircraft allows military commanders to receive high-resolution imagery, survey vast geographic regions and pinpoint targets on the ground.

This contract provides for advance procurement of long lead items associated with three Block 30 aircraft, including three enhanced integrated sensor suites, three airborne signals intelligence payload (ASIP) and two ASIP retrofit kits to be installed on previously purchased aircraft. Work under this contract is expected to be completed in 2015.





A F405 engine which is typically used to power the US Navy's T-45.

Rolls-Royce awarded T-45 Trainer contract

Rolls-Royce has been awarded a \$US50.7 million MissionCare contract extension by the US Department of Defense to provide continued support for the F405 (Adour) engines that power the US Navy's T-45 training aircraft.

The contract extension will continue the successful MissionCare support which has provided the US Navy's training fleet with guaranteed availability over the past ten years. Rolls-Royce uses its innovative MissionCare to apply commercial Power By The Hour principles to the unique requirements of the defense industry, resulting in affordable, predictable service costs for customers.

In addition to powering the T-45 Goshawk and other military aircraft, the Adour engine will also power the **Hawk AJTS aircraft**, which is a contender for the US Air Force T-X trainer program.

ADM note: The Texan is also a contender with various teams for Australia's own **Air 5428** pilot training program. The draft RFT is still on the streets with contenders gathering their responses.



A Korean Army MD 500 observation helicopter

Boeing to convert MD500 helos into UAVs!

Boeing has signed a memorandum of understanding (MoU) with Korea Air Aerospace Division (KAL-ASD) to convert a number of Republic of Korea Army (RoKA) MD 500 observation helicopters into unmanned demonstrator platforms, *IHS Jane's* reported October 31.

Speaking at the **Seoul International Aerospace and Defence Exhibition (ADEX)** in South Korea, David Koopersmith, vice president Attack Helicopter Program for Boeing, said that the MoU follows on the back of a trial conducted for the RoKA in late 2012 that utilised a Boeing **H-6U Unmanned Little Bird (ULB)**, adding that it could lead the way to either the technology or ULB platform being used operationally by Korea.

“As it can accommodate a pilot the [ULB] can be flown in restricted airspace, making it the ideal platform [to demonstrate unmanned technologies],” he said.

“We have to see how the unmanned market plays out, but this technology could be used to make the RoKA’s MD500s optionally-manned operationally.”

In December 2012, the RoKA flew a ULB autonomously for 25 minutes at the service’s Aviation School in Nonsan, South Korea.

“The demonstration showcased proven pilotless capabilities available for integration into rotorcraft to support **intelligence, surveillance and reconnaissance (ISR)**, resupply, and other missions,” a Boeing spokesperson said at the time.

The RoKA is thought to have 175 MD 500 Little Bird observation and light attack helicopters still in service (130 MD 500s in the observation role and 45 BGM-71 TOW missile-equipped Defender platforms in the light attack role). Although these are currently due to be replaced by the Boeing AH-64E Apache, some or all could be converted into optionally-manned scouts to go out ahead of the Apache to flush out enemy forces and to provide an over-the-horizon ISR capability.

Interestingly, the North Korean People’s Air Force also operates a sizeable number of MD 500D and MD 500E helicopters that it procured in the early 1980s. As such, the MD 500 is the only piece of military hardware to be operated both north and south of the border.



BAE Systems’ Hyper Velocity Projectile (HVP) is capable of completing multiple missions for the Electromagnetic Railgun

Hyper-velocity ammo for gun systems

BAE Systems has received a \$US33.6 million contract from the US Office of Naval Research (ONR) to develop and demonstrate a Hyper Velocity Projectile (HVP).

The HVP is a next-generation, guided projectile capable of completing multiple missions for the **Electromagnetic Railgun**, as well as existing 5-inch and 155-

mm gun systems. This competitive award marks the initiation of Phase 1A of the program.

The Hyper Velocity Projectile is a next-generation, guided projectile capable of completing multiple missions for the Electromagnetic Railgun and other existing gun systems. The HVP is designed to provide lethality and performance enhancements to current and future gun systems. The objective of the first phase is to produce a concept design and development roadmap towards fully guided flight demonstrations.

BAE Systems, along with teammates **United Technologies** and **Custom Analytical Engineering Systems (CAES)**, will develop and demonstrate a modular, low drag HVP. The modular design will allow the HVP to be configured for multiple gun systems and to address different missions.



Northrop Grumman delivers LITENING G4 Targeting System



The LITENING G4 pod

Northrop Grumman Corporation has delivered LITENING G4 advanced targeting systems to the Royal Danish Air Force (RDAF) for its F-16 aircraft following a rigorous flight test and evaluation program.

The LITENING G4 pods give pilots powerful capabilities for detecting, identifying and tracking targets at long ranges for precision weapon delivery or non-traditional intelligence, surveillance and reconnaissance missions.

With this delivery, Denmark becomes the first international partner to receive LITENING G4, the latest configuration of the LITENING advanced targeting system.

The acceptance of the system followed a two-week flight test evaluation program of 25 sorties that verified the pod's performance against the stringent requirements of the RDAF. At the conclusion of the test program, the **Danish Defence Acquisition and Logistics Organisation (DALO)** issued a certificate of acceptance for the initial delivery of six LITENING G4 pods, spares, support equipment, training and site activation, with additional systems to follow over the next two months.

Other nations operating LITENING systems include the **US, Australia, Finland, Israel, Italy, the Netherlands, Portugal and Spain.**

FORTHCOMING EVENTS.....page 13



FORTHCOMING EVENTS

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

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.

Capital Hill Industry Briefing

DATE: 2 December, 2013, National Press Club, Canberra
7.00am for 7.15am. Event to conclude by 8.45am

ENQUIRIES: cmax communications, Ph: 02 6161 8627;

Email: canberra@cmaxcommunications.com.au

This will be the first formal address by the Minister for Defence Senator the Hon David Johnston at the National Press Club and will provide industry leaders with an insight into his expectations and hopes for both the defence industry and the Department of Defence. Minister Johnston's address will discuss outcomes of the AUSMIN meeting and his thoughts on the development of the Government's Defence White Paper.

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

**ADM will
be in
attendance**

technologies that contribute to Australia's defence capability edge.

Singapore Air Show

DATE: 11 - 16 February, 2014, Changi Exhibition Centre

ENQUIRIES: Web: <http://www.singaporeairshow.com>

Singapore Airshow is all about creating opportunities for aero space industry representatives across the world to connect, do business, find out about the latest innovations and exchange ideas to spearhead developments across the industry.

ADM will
be in
attendance

Defence and ITAR Trade Controls from a non-US Perspective - workshops

DATE: 12 - 28 February, 2014, various locations and dates

ENQUIRIES: Web: <http://export-controls-training.com/training/face-to-face/2-day-defence-and-itar-training-february-14>

For those new to the topic, the course will be an ideal and comprehensive introduction to this extremely important topic. For those with prior experience or knowledge, the course provides a good opportunity to brush up on recent changes, ask questions, and network with defence trade control managers from other businesses. This workshop is proudly supported by Enterprise Connect's Defence Industry Innovation Centre for SME's. **Free to SME's**

ADM 2014 Defence/Industry Congress

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: 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.



Old Crows Conference

DATE: 24 - 26 August, 2014, Adelaide

ENQUIRIES: Web: www.oldcrows.org.au

Full details are yet to be released.

SimTect 2014

DATE: 25 August, 2014, Adelaide

ENQUIRIES: Web: <http://www.simtect.com.au/>

SimTect is the annual Simulation Technology and Training Conference held by Simulation Australia. Since its inception in 1996, SimTect has grown to become Australasia's premier simulation conference for industry, government and academia.

ADM will
be in
attendance

Land Warfare Conference 2014

DATE: 22 - 26 September, 2014, Brisbane

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. More details to come.

ADM will
be in
attendance

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attendance

