



# DEFENCE WEEK

SUBSCRIBER EDITION NEWS | INTELLIGENCE | BUSINESS OPPORTUNITIES | EVENTS

## IN THIS ISSUE

### NATIONAL NEWS

- Townsville facility for embarking LHDs 1
- Bigger role for small boats? ..... 2
- Supacat's multi-purpose vessel ..... 3
- Mobile broadband communications over satellite ..... 5
- New weapons for Electro Optic Systems..... 6
- Taranis at Woomera ..... 7
- Team Australia heads to the US ..... 7
- ADM Online: Weekly Summary ..... 8

### INTERNATIONAL NEWS

- Next-gen Fire Scout flies ..... 9
- PineTelecom and Rafael sign agreement'..... 10
- Handheld video/data receiver ..... 10
- Sikorsky to develop pilotless helo? .. 11
- Cubic wins US\$10 million Army Reserve contract ..... 12
- Japan, Russia to expand defence ties . 12

### FORTHCOMING EVENTS ..... 13

DEFENCE BUSINESS OPPORTUNITIES... See separate PDF

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## Townsville facility for embarking LHDs

Tom Muir

**A new \$85 million facility to be used by the Australian Army's Amphibious Readiness Element (ARE) to embark on the Navy's Landing Helicopter Docks (LHDs) was officially opened at the Port of Townsville October 18, 2013.**

The new Wharf 10 facility will allow for more direct loading of personnel and equipment from shore to ship for the ARE, comprised mainly of 2RAR personnel.

ARE is a subset of the **Amphibious Ready Group (ARG)**. The ADF's ARG construct comprises a medium weight Battle Group of 2056 personnel and associated stores, comprising infantry, armour, artillery, engineers and vehicles and is supported by the **Tiger armed reconnaissance helicopters (ARH)** and medium lift helicopters. An ARG is expected to be capable of conducting coordinated air and surface ship-to-objective- manoeuvre (STOM) assaults from 30 nautical miles over the horizon (OTH).

Short notice amphibious capability will be provided by an ARE, based on an infantry company with protected mobility, indirect fire support and **ISTAR assets**. An ARE may include medium lift helicopters. ARE should be capable of conducting coordinated air and surface STOM type actions, of up to four platoon/troop elements, from 30nm OTH.

Direct access from the wharf to the ship would decrease the time





*The Governor of Queensland, Ms Penelope Wensley AC, and the Chief of Navy, Vice Admiral Ray Griggs AO, CSC, unveiled the second of two plaques at the official opening of Townsville Wharf 10. [Photo:Defence]*

it took to load the ships, greatly enhancing the ARE reaction speed to a natural disaster. This will allow the ARE to get a foot on the ground to start providing life support to devastated areas sooner, and thereby greatly enhancing ADF operational capabilities.

The new facility could also be used by US Marines based in Australia. According to *Janes* the US Navy is considering the deployment of a third ARG to the Pacific to support US Marine Corps units rotating through Darwin, Australia. The two-ship ARG would include the **LPD 17 class** and a **large deck amphibious ship**, possibly a **JHSV**, making it the third ARG in the Western Pacific.

The USN has a fleet of 31 amphibious ships to support 10 ARGs.



*A Naval Landing Craft Vehicle. [Photo:Defence]*

## Bigger role for small boats?

**Small boats could soon have a bigger role in ADF amphibious elements after a training assessment was held in Brisbane to consider what was learnt during Talisman Sabre 13.**

Triservice commanders and planners discussed how critical the ship-to-shore connectors were in amphibious operations to

ensure troops get to shore at the right place and time.

Amphibious development elements will now create testing criteria to make sure the small boat operations can be certified through the training process. The group looked at the strategic, operational and tactical lessons from the 2013 Amphibious Trial, which was a series of exercises that culminated in Talisman Sabre 13.

USMC Colonel **John Mayer**, Colonel of Amphibious Development at HQ 1 Div, said there were plenty of lessons still to be learnt and further development needed, but a lot of valuable experience was gained by the amphibious forces and commanders working with the new capability

“Any time you exercise, no matter how many times you’ve done it before you’re



going to learn, and we certainly did this time. At the tactical level, I think we're exactly where we need to be and we'll just get better as we go. The young soldiers, sailors and airmen at the operator level learn so quick – they get it. Once they have the ships, they'll be galloping in no time at all."

COL Mayer said US Marines used small boats as enablers for a lot of their tactical operations such as clandestine insertions, communication relay and moving supplies back and forth, and the importance of these operations were a critical outcome of the trial assessment.

"We learnt a lot about small boat operations during the trial so we'll see a bigger role for training in small boat operations coming out of this," he said.

With his background in amphibious operations, COL Mayer said he was pleased to see how quickly ADF members caught on.

"It was impressive to see the joint teamwork and willingness to participate and share information and training," he said.

Troops will get back into amphibious preparation early next year when refresher training will be conducted with *HMAS Choules*. -Nick Wiseman/Army



*The SMV24 is a new concept in support vessel design.*

## Supacat's multi-purpose vessel

Tom Muir

**Designed by Incat Crowther of Tasmanian catamaran fame, Supacat has unveiled the Supacat Multi-purpose Vessel 24 (SMV24) to the defence and security market at DSEI.**

Launched to the wider marine and renewable energy sectors in July, the SMV24 is

a new concept in support vessel design, which also has the potential to perform a range of defence and security related roles. Its flexibility, high speed and high payload have already attracted interest from potential operators in the sector. The SMV24 is a fine entry catamaran that can achieve speeds up to 30 knots and has a range up to 790nm. In the present configuration, the 24 metre vessel can carry up to 12 additional passengers and up to 30 tonnes of cargo simultaneously. However, the flexibility of the design allows for adaptation to meet alternative and emerging roles. The first SMV24 is under construction and will be completed later this year. It was developed by Supacat to support the new generation of far offshore wind farms which require it to operate up to 150 nm from a safe haven.

"Since launching the SMV24 into the marine and renewable energy markets it has generated interest from military users for a number of different roles, hence our decision to exhibit it at DSEI. Supacat has a strong brand in defence, which differentiates our





*Supacat is a developer of high mobility vehicles including the Jackal*

offering in this segment of the market," **Jamie Clarke**, head of marketing and communications said.

Supacat has built a global reputation as the developer of high mobility vehicles, such as its HMT series - the vehicle of choice for elite special forces and best known as **Jackal** and **Coyote** in service with British Armed Forces and the Australian Army. Over the last decade the company has successfully applied the company's innovation and engineering skills to develop products in the adjacent marine and renewables sectors for customers, including the **RNLI** and **Fred Olsen**.

The SMV24's multi-role performance is based on a revolutionary deck system boasting a through-deck and an integrated rail system running the length of the vessel. This allows a range of equipment for different roles to be installed, such as ISO containers, a deck crane or diving rig. The deck can carry up to 50ft of ISO containers in a variety of 20ft and 10ft sizes.

For the SMV24 project Supacat selected a team with strong pedigrees in the marine sector. Naval architects Incat Crowther translated Supacat's SMV 24 concept into a detailed design and established boat builder, **Mustang Marine (Wales) Ltd**, is building the first vessel. DNV advised on classification. The SMV24 will meet DNV 1A1 HSLC R1 Windfarm Service Vessel Class 1 and be UK MCA SCV Code (MGN280) Category 1. The ISO compatibility of the through deck allows the SMV24 to perform multiple roles including infrastructure support, diving, survey, fuel transport, workshop, refrigeration, general cargo, passenger transport, Remotely Operated Vehicle support by using ISO compatible modular custom loads. The rapid loading of these alternative ISO modules extend the functionality of the SMV 24 further.

Interestingly, the inspiration for this functionality came from defence where Supacat has witnessed such modularity in use for military logistic operations. The SMV24 is a catamaran based design constructed from marine grade aluminium with double bottom to ensure maximum survivability. Two **MAN** D2862 LE463 engines each coupled to a Servogear Controllable Pitch Propeller give greater control of thrust throughout the rev range and maximise fuel economy. Significant redundancy has been built into the electrical system to fulfil specific customer requirements and the two generators fitted are capable of powering all the vessel systems individually.

### 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.





*EM Solutions broadband on-the-move terminal atop a communications node being deployed for disaster recovery operations*

## Mobile broadband communications over satellite

Brisbane-based company EM Solutions has recently won a follow-on order to supply an additional quantity of its on-the-move (OTM) satellite broadband communications terminals to the Japanese Government communications agency NICT.

These terminals will assist in the country's future disaster recovery efforts. The initial order of terminals, supplied earlier this year, were fitted to mobile communications vehicles intended for rapid despatch to impacted areas of the country where the

terrestrial telecommunications network had been destroyed, and provide fibre-like data speeds in off-road conditions while the vehicles are still in motion. In this sense, they are truly competitive with the latest 4G mobile networks which can also be used anywhere, anytime, and any place – provided the network (still) exists.

EM Solutions' first on-the-move terminal was initially developed as a demonstrator for the ADF under the **Capability Technology Demonstrator (CTD) Program**. That terminal, with a Ka-band waveguide feed developed by Adelaide-based **BAE Systems Australia**, proved its worth by achieving exceptional ability to lock on to the satellite and to continue communicating, even under the most gruelling off-road conditions that an Army **Bushmaster** could deliver. The terminal successfully passed all WGS certification tests required under **Mil-Std 188-164B**, required for operation with the WGS military constellation.

EM Solutions' terminal uses a three-axis gimbal, with a "cross-elevation" axis, to allow rotation throughout the entire sky. The additional degree of freedom in elevation allows direct overhead pointing with the base able to rotate to an optimal position, increasing acquisition speed. Coupled with the use of a proprietary "monopulse" pointing system, the terminal is truly universal, able to lock onto the satellite from any land, naval, or airborne vehicle.

### 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  
[judyhinz@yaffa.com.au](mailto:judyhinz@yaffa.com.au)





*R-400S mounting the ATK M230LF 30 mm cannon. The weapon system is itself mounted on a Northrop Grumman CaMEL military robot.*

## New weapons for Electro Optic Systems

Electro Optic Systems has completed development of two new weapon systems aimed at the emerging market for increasing the firepower of armoured infantry fighting vehicles.

The two new weapon systems, first announced at the Army USA Show in Washington are:

**1. Remote Turret for 30 mm cannon.** The remote turret is a new category of product, intended to deploy the 30mm **ATK Mk44 cannon** in a 1.3 tonne turret. The turret allows precision engagement from a moving vehicle to a moving target.

**2. R-400S Remote Weapon System.** EOS has upgraded its **R-400 [CROWS] RWS** to deploy the 30mm ATK M230 LF cannon in a 0.4 tonne system. The new R-400S allows precision engagement up to

2 km from a moving vehicle to a moving target with 30 mm lethality.

Both systems address a rapidly emerging requirement for increased firepower across the entire range of combat vehicles, whether tracked or wheeled, and including lightweight platforms previously equipped with small arms and crew operated weapons such as the **M2 12.7mm** heavy machine gun.

Armoured vehicles have been equipped for more than 80 years with turrets that allow a weapon to be aimed independently of the vehicle's orientation. These turrets have included accommodation for operators in a cylindrical "cage" that is slung under the exposed parts of the turret and rotates with the turret inside the vehicle.

A conventional (traditional) turret requires a large hole in the top armour of the vehicle to insert the cage into the vehicle as the turret is added on top. This creates a weak point in the vehicle's armour and is the most common point of attack. Conventional turrets are heavy and occupy a large amount of space inside the armoured vehicle for the operator cage. This requires a large vehicle that is more vulnerable to enemy detection and engagement.



## Taranis at Woomera



*A Taranis unmanned combat air vehicle (UCAV) model*

**The BAE Systems Taranis unmanned combat air vehicle (UCAV) demonstrator has made its maiden flight and is currently conducting initial flight trials, the UK Ministry of Defence (MoD) confirmed in written statement submitted to the UK parliament's defence select committee.**

"Flight trials are currently ongoing," an MoD spokesperson said.

Neither the MoD nor BAE Systems were able to confirm the date of the maiden flight at this stage. However, a full statement by the MoD will be issued when the Taranis flight trial program has been completed, the spokesperson said.

Flights are understood to be ongoing at the Woomera Testing Range in South Australia where previous unmanned flight test campaigns took place.

ADM understands that BAE Systems is using Woomera and many local staff given their experience with multiple UAV systems, including the **Mantis, Herti, Corax** and **Raven** systems.

The UK is highly secretive about the Taranis UCAV, which is known to have been seen in public on only two occasions. The aim of the Taranis concept is to explore stealthy unmanned aircraft capabilities in striking targets with real precision at long range is possible, maintaining the human control in the loop.



*Their goal is to bring home a hat  
trick of World Titles*

## Team Australia heads to the US

**This week 24 students from four schools from across the nation will leave to take on 38 teams from 25 nations in the largest Science, Technology, Engineering & Mathematics (STEM) competition in the world.**

These students will be up against 230 of the brightest minds who have won their way to the World Finals from the millions who undertake the program each year. Australia is ranked No1 in the World at the **F1 in**

**Schools Technology Challenge** after coming home World Champions in 2011 and



2012.

Each team has clocked up thousands of hours over the past months designing, building, preparing, testing, checking and practicing. Their goal is to bring home a hat-trick of World Titles for Australia.



## 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, two of the Royal Australian Navy's Coastal **Hydrographic Survey** ships returned to their homeport of Cairns, having completed a survey of Dawson Strait, Papua New Guinea.

Those planning to attend the Military Communications and Information Systems (MilCIS) Conference will have an easier time keeping track of what's on offer with a **mobile phone application** launched this week.

And, after nine months operating as part of the Royal Australian Navy Fleet, Spanish Armada Ship, **ESPS Cantabria** was farewelled from her temporary homeport of Garden Island, Sydney.

### 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



## International

### Next-gen Fire Scout flies



*MQ-8C Fire Scout*

**The next-generation MQ-8C Fire Scout unmanned helicopter has taken to the air for the first time at Naval Base Ventura County (NBVC) in California.**

Built by **Northrop Grumman** around a **Bell 407 helicopter**, the MQ-8C is designed to boast twice the endurance and three times the payload capacity of the MQ-8B variant that has clocked up over 5,000 flight hours in Afghanistan.

The maiden flight took place on October 31, with the unmanned helicopter taking off and flying for seven minutes in restricted airspace at NBVC to validate the autonomous control system. A second flight lasting nine minutes took off a couple of hours later and saw the aircraft reach an altitude of 500 feet while flying in a pattern around the airfield. A ground-based US Navy/Northrop Grumman flight test team at NBVC controlled the aircraft on both flights.

“Operating the MQ-8B Fire Scout from Navy ships has proved extremely successful,” **George Vardoulakis**, Northrop Grumman’s vice president for medium range tactical systems said.

“During at-sea deployments, operators saw the need for a system that carried the same intelligence-gathering capabilities of the MQ-8B, but fly longer and carry additional payloads. Changing out the airframe, installing control systems and avionics, and then conducting a first flight of the system in a year is truly remarkable. I couldn’t be more proud of the team.”

In comparison to the MQ-8B, which is based on the **Sikorsky Schweizer 333 light piston-powered helicopter** and boasts an endurance of over eight hours or the ability to carry payloads of up to 320 kg for short range missions, the MQ-8C is based on the larger commercial airframe of a Bell 407 helicopter and fitted with additional fuel tanks and an upgraded engine, giving it the capability to fly for up to 12 hours or carry a payload of up to 1,180 kg.

Northrop Grumman is under contract to supply the US Navy with the first eight of 30 planned MQ-8C Fire Scouts that are set to enter service by mid-2014.





*From right to left: Executive Vice-President of Pine Telecom, Changwoo Ro and CEO of Rafael, VADM (ret.) Yedidia Yaari.*

## PineTelecom and Rafael sign agreement'

**Rafael Advanced Defense Systems has reached an agreement for the acquisition of 49 per cent of PineTelecom, a South-Korean communication technology developer.**

Rafael and PineTelecom will closely cooperate in the design, development and manufacturing of high-end communications systems for the Korean military, including

technology transfer. Rafael and PineTelecom are already working together in the framework of several defence programs.

As part of the agreement, PineTelecom will continue to operate as an independent company with engineering and operational collaboration from Rafael, enabling PineTelecom to strengthen its competitiveness in the Korean and international defence communication market and continue offering comprehensive solutions and advanced systems to Korea's and international defence communication market.



*The Hummingbird Nano Air Vehicle (NAV)*

transmits video and data to its operator via the company's standard hand-held ground control unit and to an optional additional observer through a remote viewing terminal.

Pocket DDL now gives anyone in the area secure access to view the video and data

## Handheld video/ data receiver

**AeroVironment, has unveiled its new Pocket DDL (digital data link) secure digital video and data receiver.**

The four-ounce device enables remote viewing of video and data from AeroVironment small unmanned aircraft systems (UAS) as well as from helicopters, airplanes, other unmanned aircraft and ground robots equipped with the company's DDL.

AeroVironment has delivered thousands of DDL-enabled unmanned aircraft systems. Each AeroVironment small unmanned air vehicle wirelessly

generated by any aircraft equipped with the company's DDL on commercially available smart phones, tablets or virtually any USB equipped end-user display device. Designed for simplicity and ease of use, Pocket DDL has no exterior buttons or displays and is completely controlled through an App. No bulky video equipment is required to receive critical video and data. Future Apps will enable Pocket DDL users to communicate and transfer data through DDL-enabled aircraft networks, gaining greater value from existing infrastructure.

AeroVironment has also been responsible for the development of the **Hummingbird Nano Air Vehicle (NAV)**, a remotely controlled ultra-light aircraft, sponsored by **Defense Advanced Research Projects Agency (DARPA)**. The NAV project is intended to develop advanced air vehicles to meet the critical operational requirements of US warfighters and other armed forces. The Hummingbird NAV was intended for both indoor and outdoor missions.



*The Sikorsky Autonomous Research Aircraft, or SARA*

## Sikorsky to develop pilotless helo?

**Positioning itself for future Army contracts, Sikorsky Aircraft is developing an unmanned helicopter sophisticated enough to skim treetops, negotiate emerging obstacles and identify a landing zone all by itself.**

Such a vehicle would be ideal for the service's cargo transport and other missions, company officials said.

"You can run a lot more unmanned missions than you can with a pilot," **Barbara Lindauer**, director of business development for the company's Autonomous Systems division said explaining that a pilot can only fly so many hours before tiring out.

But round-the-clock cargo lifts don't just bring more equipment. They also saves lives by reducing the number of trucks exposed to ambushes — a fact that has not been lost on the US military in Afghanistan.

"The Marines and the Navy are already out there with unmanned heavy lifters," Lindauer said, referring to systems like the **K-Max robocopter**, developed by **Kaman Aerospace** and **Lockheed Martin**. Sikorsky is waiting to see if the Army will take the plunge with a program of record. In the meantime, the company is testing its solution on a modified S-76 called the **Sikorsky Autonomous Research Aircraft, or SARA.**-  
*Defense News*





*The Engagement Skills Trainer (EST 3000)*

## Cubic wins US\$10 million Army Reserve contract

**Cubic Defense Systems, has been awarded a US\$10 million contract with the US Army Reserves to provide its Engagement Skills Trainer (EST 3000) virtual training system, simulated weapons and services.**

The EST 3000 is a portable system that leverages the training capabilities provided by the **EST 2000** US Army-certified system. EST

3000 will provide the US Army Reserves with enhanced fundamentals of marksmanship capabilities through immediate feedback efficiency indicators (trigger pressure, pitch, cant) and 3D targets. The system uses high fidelity game engine graphics that provide realism to marksmanship and collective scenarios. This overall simulation capability will allow Reserve Soldiers to increase their training effectiveness with reduced time and cost, and supports the overall Army Reserves training strategy.

## Japan, Russia to expand defence ties

**Japan and Russia have held their first high-level defence and diplomatic talks and agreed to step up cooperation between their militaries amid regional security concerns such as North Korea and China.**

Japanese Foreign Minister **Fumio Kishida** and Defence Minister **Itsunori Onodera**, and their Russian counterparts **Sergei Lavrov** and **Sergei Shoigu** also agreed on Saturday to hold joint military and anti-piracy exercises and establish a defence consultation framework. Their countries' defence ties are geared up toward peace and stability in the Asia-Pacific region and would not affect existing alliances, including one between Japan and the US, they said.

Lavrov told a news conference after Saturday's talks that upgrading defence ties between the two countries could serve their national interests in resolving terrorism and North Korea's nuclear threats, as well as other regional disputes. He welcomed the talks as a landmark development for Russia and Japan, and said that this new cooperation would not interfere with the Japan-US alliance.

Kishida also said that Japan's alliance with Washington remains "the cornerstone" of Tokyo's foreign and security policy.

Earlier, Japan and Russia agreed to continue discussing a territorial dispute that has kept the nations from signing a peace treaty. The diplomats also agreed to hold vice-ministerial talks in late January or February, ahead of Kishida's planned visit to Russia in the spring.

## 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](http://www.australiandefence.com.au)

## SEWG Meeting No.7

**DATE:** 11 November, 2013, National Convention Centre, Canberra

**ENQUIRIES:** Lori Catelli, Ph: 02 6265 7108;

Email: [lori.catelli@defence.gov.au](mailto:lori.catelli@defence.gov.au)

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

## Military Communications and Information Systems Conference (MilCIS)

**DATE:** 12 - 14 November, 2013, National Convention Centre, Canberra

**ENQUIRIES:** Web: [www.milcis.com.au/](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.

ADM will  
be in  
attendance

## Annual NZ DIA Forum

**DATE:** 13 - 14 November, 2013, Wellington, NZ

**ENQUIRIES:** Email: [contact@nzdia.co.nz](mailto:contact@nzdia.co.nz) Web: [www.nzdia.co.nz/](http://www.nzdia.co.nz/)

This year the forum will be held at the Michael Fowler Centre, Wellington. As always there will be a range of interesting presentations and trade displays, and we hope to offer an updated version of the speed dating which was so successful last year. We are also seeking to arrange some special events in association with NZ T & E and other organisations to further enhance the event.

## Trade Controls Summit 2013

**DATE:** 20 November, 2013, ANU, Canberra

**ENQUIRIES:** Wendy Green, Ph: 02 6120 5111;

**Email:** wendy.green@thalesgroup.com.au

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

## ADM Defence Supply Chains Conference

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

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

**Email:** keith.barks@informa.com

**Web:** www.admevents.com.au

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

ADM will  
be in  
attendance

## 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 aerospace industry representatives across the world to connect, do business, find out about the latest innovations and exchange ideas to spearhead developments across the industry.

## 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

## Indian Ocean Naval Symposium 2014

**DATE:** 24 - 28 March, 2014, Burswood Crown Perth

The event is biennially attended by the Chiefs of navies from all Indian Ocean region states. The symposium's purpose is to promote a shared understanding on maritime security issues among the participating states. It is designed to develop strategies for cooperation and improve security in the long run through reaching multinational maritime agreements, which are hoped to come out of the event. More details to come.

## 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.

ADM will  
be in  
attendance

## Defence and Industry (D+I) conference 2014

**DATE:** 2 - 4 June, 2014, Adelaide

The Conference is an opportunity for Industry to discuss with Defence officials acquisition and sustainment investment opportunities. It is also an opportunity for Industry to present its ideas and concepts to the Defence community. More details to come.



## Old Crows Conference

**DATE:** 24 - 26 August, 2014, Adelaide

**ENQUIRIES:** Web: [www.oldcrows.org.au](http://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

