

STEM in Defence Summit

Growing the STEM Workforce:
Filling the well

30 November 2017 | Hyatt Hotel, Canberra



PRESENTATIONS FROM:



Dr Ian Dagley,
*Chief of Science Partnerships
and Engagement, DST Group,*
Department of Defence



Air Vice-Marshal (Rtd.)
Anthony Needham AM,
Department of Defence



Todd Mansell, *First Assistant
Secretary – Strategy Policy and
Intelligence Initiatives,*
Department of Defence



Shelley Willsmore, *Director –
Human Resources,* **BAE Systems**



Captain Jenny Daetz CSC,
Director – Education and Training,
**Australian Defence Force
Academy**



Dr Scott Sleep, *Program Director,*
ME Program



Robin Murt, *CEO,*
TAFE SA



Kelly Tagalan, *CEO,*
Code Club Australia



Dr Michael Myers OAM,
Executive Chairman,
Re-Engineering Australia



Amanda Holt, *CEO and Chief
Engineer Defence & Aerospace,*
SYPAQ Systems



Barbara Phelan,
Director of Diversity Directorate,
Department of Defence

STEM in Defence Summit

Thursday 30 November 2017

8:50 **OPENING** | Opening remarks from the Chair

STEM IN DEFENCE ON THE NATIONAL LEVEL

9:00 **KEYNOTE**

The need for the Defence industry to have a national strategy in STEM

- The importance of co-ordination and collaboration between the STEM industry and Defence
- How a national strategy can both utilise and standardise high-quality students/graduates already excelling in STEM
- Avenues of collaboration between existing programs under a national STEM strategy

Dr Ian Dagle, *Chief of Science Partnerships and Engagement, DST Group, Department of Defence*

9:30 **Putting together Defence's first STEM Strategy**

A perspective from the Department of Defence, on the importance of a STEM strategy exclusively for Defence.

Matt Ramage, *Assistant Secretary Defence Industry, Department of Defence*

PANEL

What a 'National STEM Strategy' looks like for Defence

- How can policy be put in place to act as a win/win for industry and individuals working/studying in STEM?
- Global examples and how they may be applied to Australia
- Industry pathways that allow easy movement from education to a role in Defence community
- How to incorporate diversity ideals within the strategy to close the gender gap in STEM and promote diversity, as well as encouraging leadership to all.

Matt Ramage, *Assistant Secretary Defence Industry, Department of Defence*

Todd Mansell, *First Assistant Secretary – Strategy Policy and Intelligence Initiatives, Department of Defence*

Major Brian Merton, *Specialist Recruitment - Engineering, Department of Defence*

10:45 Networking and refreshment break

DEFENCE AND EDUCATION WORKING TOGETHER

11:10 **Retention of students at every step of education**

- How can Defence ensure that the pathways into the industry remain clear and accessible throughout all stages of education?
- How can education play a role in teaching the skills required for a viable future in the Defence industry?
- What are the common denominators in both sectors (Defence and Education) that can work together to create dynamic and high-quality individuals?

Captain Jenny Daetz, *Director – Education and Training, Australian Defence Force Academy*

11:30 **CASE STUDY**

How industry can engage in education for a mutually beneficial outcome

A closer look at Aviation High and the aviation study stream and how it provides a win/win/win situation; creating opportunities for Boeing, UQ and its students.

Sandra James, *Senior Manager – University Relations, Boeing*

12:00 **Balancing the Future: The Australian Public Service Gender Equality Strategy**

A closer look at Action 2 of 'The Strategy' specifically referring to agencies developing programs that support women's progression into senior leadership positions – with priority being given to specialist functional areas affected by gender imbalance, such as STEM occupational disciplines.

Barbara Phelan, *Director of Diversity Directorate, Department of Defence*

12:20 Lunch and networking break

STEM WORKING FOR THE DEFENCE INDUSTRY

13:15 **CASE STUDY**

Army Drone Programs

- The Australian Army is Australia's biggest user and operator of drones, and many of our soldiers race drones in the civilian drone racing association on weekends. The Army Drone Racing Team was formed to bring together our racers to compete in the national competition framework and additionally to form a central element of Army STEM outreach.
- Drone racers are self-taught through YouTube and collaboration how to solder, code, manage datalinks, construct videos, maximise battery and motor efficiency, use hand tools and understand mechanics and aerodynamics. These are the kids who are the face of modern STEM and are the young adults we want to recruit into an ever more technical Army.

13:45 **PANEL**

What does industry need from STEM graduates?

- A discussion on how industry sees STEM students adding value to the sector
- How can a STEM strategy be shaped to benefit both private and public interests?
- How is success measured? What are the KPIs and metrics for deciding which industry/department programs are successful?
- Is WIL (Work Integrated Learning) the future of education/industry collaboration; Successes and challenges within this area?

Shelley Willsmore, *Director – Human Resources, BAE Systems*

Dr Michael Myers OAM, *Executive Chairman, Re-Engineering Australia*

Amanda Holt, *CEO and Chief Engineer Defence & Aerospace, SYPAQ Systems*

STEM in Defence Summit

Thursday 30 November 2017

14:30 CASE STUDY

Defence Industry Skilling Program

A spotlight on the ME Program and how it has successfully created the Defence Industry Skilling Program, specifically designed to train and mobilise graduates into the Defence industry – prepared and knowledgeable about the expectations of a career in Defence.

Dr Scott Sleep, *Program Director, ME Program*

15:00 Network and refreshment break

CREATING, MAINTAINING AND INNOVATING PATHWAYS BETWEEN DEFENCE AND EDUCATION

15:30 CASE STUDY

TAFE and Defence Industry

How TAFE and the Department of Defence have created, sustained and improved on offering a pathway for VET students to enter the Defence sector; What lessons are there to be learnt from this program and how could they be applied across all areas of Defence and Education?

Robin Murt, *CEO, TAFE SA*

16:00 CASE STUDY

Moonhack

- A closer look at Code Club Australia and how they capture the imagination of Australian students to help improve digital literacy
- How can educational enterprises innovate to promote a future in the Defence industry?
- How can initiatives such as this move forward together with Defence to create more valuable and educational opportunities for young Australians?

Kelly Tagalan, *CEO, Code Club Australia*

16:30 CLOSING | Closing remarks from the Chair

16:45 End of Conference

SPONSORSHIP AND EXHIBITION OPPORTUNITIES

Excellent opportunities exist to showcase your organisation.

For further information, please contact:

Andrew Sinkovich, Sponsorship Manager

Phone: (02) 9080 4008 | Mobile: +61 (0) 447 521 217

Email: andrew.sinkovich@informa.com.au

VENUE DETAILS

Hyatt Hotel, Canberra, 120 Commonwealth Ave, Yarralumla ACT 2600

Phone: (02) 6270 1234, www.canberra.park.hyatt.com



Australian Defence Magazine is proud to announce its newest addition to the already thriving *ADM* Conference series. After the success of *ADM* Congress 2017, *ADM* Defence Estate & Base Services Summit and *ADM* Northern Australia Defence Summit, we have added a fourth event, *ADM* STEM in Defence Summit

The STEM in Defence Summit will focus on the overwhelming need for Defence to encourage, harness and progress its relationship with the Education sector. Specifically, the emergence of STEM education as an essential industry in the future is of utmost importance.

The overlap between STEM and Defence is obvious. From the development of vehicles and weaponry to the construction and maintenance of key defence infrastructure, STEM is a natural fit for Defence; it is imperative that the industry identifies this and supports the potential of young people within education.

For this reason, *ADM* will be collating key thought-leaders and practitioners from Defence, industry and Education to understand the need for a national STEM policy in Defence, the current pathways from education into both the department of Defence and Defence industry, how industry are utilising their connections and cultivating new relationships with Australia's most prevalent educational institutions and how proactive attitudes now will elevate Australia's standing as a global player in both Education and Defence.

This event is the first of its kind in the country and will be imperative for all members of Defence, Defence Industry and Education sectors.

STEM in Defence Summit

30 November 2017 | Hyatt Hotel, Canberra

Easy Ways to Register

- 1 Web**
www.admevents.com.au/stemindefence2017
- 2 Telephone**
+61 (0)2 9080 4307 – Quoting P17K40
- 3 Email**
conferences@informa.com.au – Quoting P17K40

Stay Connected



ADMSTEM17

Pricing Details

Register Early & Save	Early Bird Rate				Standard Rate		
	Book & pay on or before 30 September 2017				Book & pay from 1 October 2017		
One day conference	PRICE	GST	TOTAL	SAVE	PRICE	GST	TOTAL
Industry Rate	\$1,095	\$109.50	\$1,204.50	\$200	\$1,295	\$129.50	\$1,424.50
Defence /SME/ Academia Rate	\$795	\$79.50	\$874.50	\$200	\$995	\$99.50	\$1,094.50

For full terms and conditions, please visit:

www.admevents.com.au/stemindefence2017

If undeliverable return to: PO BOX Q1439, SYDNEY NSW 1230

POSTAGE
PAID
AUSTRALIA