

# STEM in Defence Summit

Tuesday 13 August 2019 | Hyatt Hotel, Canberra



## CONFIRMED SPEAKERS INCLUDE:



Prof Tanya Monro, *Chief Defence Scientist – Defence Science and Technology Group*, **Department of Defence**



AIRCDRE Sue McGready CSC, *Director General Defence Force Recruiting*, **Department of Defence**



Luke Brown, *Assistant Secretary – Space and Communication Branch*, **Department of Defence**



Anntonette Dailey, *Executive Director – Operations and Communications*, **Australian Space Agency**



Pinakin Chaubal, *Manager Capability Development – Land Engineering Agency*, **Department of Defence**



Dr Sheridan Kearman, *First Assistant Secretary Defence Industry Policy*, **Department of Defence**



LTCOL Keirin Joyce, *SO1 UAS*, **Australian Army**



Dr Michael Myers, *Founder & Chairman*, **Re-Engineering Australia Foundation**



Teresa Janowski, *General Manager*, **STEM Nation**



Dr Melrose Brown, *Space Research and Engineering*, **UNSW Canberra**

# STEM in Defence Summit

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## 8:50 Opening remarks from the Chair

Katherine Ziesing, *Managing Editor, Australian Defence Magazine*

## 9:00 Defence Industry Skilling and STEM Strategy

- A look at current Defence strategies and policies
- Ensuring Defence industry can meet its workforce requirements
- Attracting and retaining a STEM workforce

Dr Sheridan Kearnan, *First Assistant Secretary Defence Industry Policy, Department of Defence*

## STEM SKILLING & RECRUITING

### 9:30 Current programs and action plans in place to attract and retain Australia's STEM workforce

- How is Defence actively enticing STEM graduates?
- Retaining STEM employees
- Programs focused on the growing importance of STEM workers

AIRCDRE Sue McGready CSC, *Director General Defence Force Recruiting, Department of Defence*

### 10:00 How is the Defence Force's expansion into space going to shape the future Defence workforce?

- Growing reliance on space: military capabilities and the skills this will require
- Accessing space: Ensuring the expertise are available to maximise potential
- What are the challenges likely to be faced by Defence?

Luke Brown, *Assistant Secretary – Space and Communication Branch, Department of Defence*

## 10:30 Morning Tea and Networking Break

### 11:00 Australian Space Agency: Building a Skilled Workforce Capable of Making Australia's Space Sector Globally Competitive

- The challenge: tripling the size of the space industry by 2030
- Preparing for STEM skills of the future
- Attracting STEM graduates to a career in the space sector
- Skilling the workforce in a rapidly evolving environment of technology, communications and IoT

Anntonette Dailey, *Executive Director – Operations and Communications, Australian Space Agency*

## BUILDING THE STEM WORKFORCE

### 11:30 KEYNOTE

#### Address from the Chief Defence Scientist

Prof Tanya Monro, *Chief Defence Scientist – Defence Science and Technology Group, Department of Defence*

### 12:00 CASE STUDY

#### Creating the future Defence workforce through STEM Sista

- Creating pathways to STEM employment for girls
- A look at how the program has developed over the past 12 months
- How can the program grow to support more young women in STEM related careers?

Teresa Janowski, *General Manager, STEM Nation*



Photo credit: South\_agency

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**12:30** Lunch and Networking Break

**13:30 The future of the workforce as AI, Technology and our ability to access Space develops**

- Creating strategic partnerships and engaging with various stakeholders
- Defining the role of researches and universities in the continual development of the workforce and the equipment that the work force uses
- UNSW Canberra's contribution to the Defence sector

Dr Melrose Brown, *Space Research and Engineering*,  
**UNSW Canberra**

## STEM IN THE DEFENCE FORCE

**14:00 Military International Drone Racing Tournament (MIDRT)**

- Originally launched at the inaugural ADM STEM in Defence Summit, hear how the MIDRT has developed over the past two years

LTCOL Keirin Joyce, *SO1 UAS*, **Australian Army**

**14:30 How is the RAAF preparing its current workforce for the future**

- As AI & Technology develop rapidly what is the predicted impact on the workforce?
- Programs in place to ensure the current workforce is adequately skilled for their future roles
- The workforce of the next generation: attracting STEM graduates to the RAAF

Senior Representative, **RAAF**

**15:00 Work Experience for Engineering Students**

This presentation will draw on the experience of Land Engineering Agency hosting engineering students during their early career phase.

Pinakin Chaubal, *Manager Capability Development – Land Engineering Agency*, **Department of Defence**

**15:30** Afternoon Tea and Networking Break

## STEM IN DEFENCE INDUSTRY

**16:00 The Role Industry Can Play in Engaging Students into STEM Career Pathways**

- Making an engagement pitch based on lifelong learning
- Understanding the motivations drivers of children's career decision choices
- Encouraging Australian industry to get behind Australian ideas

Dr Michael Myers, *Founder & Chairman*,  
**Re-Engineering Australia Foundation**

**16:30 Ensuring that Defence Industry has ability to attract and retain STEM graduates to support the future needs of the ADF**

- The importance of a skilled Defence industry workforce for the ADF to function
- As the workforce continues to transform what challenges does this present to industry?
- Developing skills and harbouring knowledge

Senior Representative, **AI Group**

**17:00 PANEL**

**How Industry and Government can support each other in attracting and retaining a STEM workforce**

- Keeping STEM skilled workers in the sector
- Attracting the STEM workforce to Defence
- Ensuring that employees' skills are constantly developed

Senior Representative, **AI Group**

Dr Michael Myers, *Founder & Chairman*,  
**Re-Engineering Australia Foundation**

**17:40 Closing Remarks from The Chair**

Katherine Ziesing, *Managing Editor*, **ADM Magazine**

**17:50** End of Conference

## VENUE DETAILS

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

**Phone:** (02) 6270 1234, [www.canberra.park.hyatt.com](http://www.canberra.park.hyatt.com)

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**ADMSTEM19**

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One day conference	PRICE	GST	TOTAL	SAVE	PRICE	GST	TOTAL
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