

Defence and Industry Research Symposium

Tuesday 8 August 2023 | National Wine Centre of Australia, Adelaide

Hosted by

University of South Australia

SPEAKERS INCLUDE:



Structure, Australian Defence Force
The Hon Susan Close MP,

MAJGEN Chris Field, Special Advisor to the CDF on Force

Deputy Premier and Minister for Defence and Space Industries, South Australia

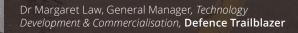
COL Tim Orders, *Deputy Commander 9th Brigade*, Australian Army



Dr Anne Collins, Chief Operations Officer, Sementis

John Towers, LM Fellow, Lockheed Martin Australia

Horden Wiltshire, CEO, Acacia Systems



Thomas Hastwell, Chief Commercial Officer, Lumination

Dr Peter Schumacher, Design Lead, Studio for Complex Human Environmental Design, **University of South** Australia



MAJGEN Jason Walk, *Commander Joint Logistics, Joint Capability Group*, **Australian Defence Force**

Dr Peter Shoubridge, *Chief Land Division,* Defence Science and Technology Group



Sumen Rai, *Director*, **Defence Innovation Partnerships**



Jeremy Satchell, *Head of Global Access Program,* **BAE Systems**



Al Jawhari, Co-Founder and Group CEO, Starke-AMG

Greg Wicks, Manager Strategic Innovation, Nova Systems

Dr Mark Hodge, Chief Executive Officer, DMTC Limited



Dr Mel McDowall, *Director,* **Defence Artificial Intelligence Research Network**



Prof Siobhan Banks, *Behaviour-Brain-Body Research Centre,*University of South Australia



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8:50 OPENING | Opening remarks from the Chair

Sumen Rai, Director, Defence Innovation Partnerships

9:00 Welcome Address

Peter Stevens, *Director Enterprise Partnerships*, **University of South Australia**

9:10 DEPUTY PREMIER'S ADDRESS

Defence innovation - an underpinning advantage

The Hon Susan Close MP, Deputy Premier and Minister for Defence and Space Industries, South Australia

9:40 KEYNOTE ADDRESS

Science and Research - a key enabler for the Defence Enterprise

- How the ADF's Integrated Campaigning concept enables the ADF to build, unlock, maximise and apply power through working with others to achieve more
- The connection between strategy, operating environments, concepts, and doctrine to create ADF force options
- How ADF concepts unify the ADF and enable Australia's security
- How ADF missions interconnect to achieve campaign objectives and effects

MAJGEN Chris Field, Special Advisor to the CDF on Force Structure, Australian Defence Force

10:10 Drivers for military innovation and the need for military, industry and academia collaboration

COL Tim Orders, Deputy Commander, 9th Brigade, Australian Army

10:30 PANEL DISCUSSION

Collaboration a key for defence- from research to capability

- The art of forming long-term successful partnerships
- Establishing the KPIS to determine progress and outcomes
- Navigating the transition from research to implementation and commerciality

Dr Peter Shoubridge, *Chief Land Division*, **Defence Science and Technology Group**

Dr Mark Hodge, Chief Executive Officer, DMTC Limited

Dr Margaret Law, General Manager, Technology Development & Commercialisation, Defence Trailblazer

11:10 Morning tea

CASE STUDIES IN COLLABORATION

- 11:40 Test and evaluation model for planning and architecture optimisation
 - The value of academic relationship for Nova Systems, and why collaboration with the University of South Australia on this particular research topic is important
 - Challenges mid-tier (and smaller) commercial organisations might face in research engagements

Greg Wicks, Manager Strategic Innovation, Nova Systems

12:00 Challenges and opportunities of developing a novel viral

vector vaccine platform in Australia

- "Spin-in" model
- Crossing the chasm from Research to Development
- Accessing local biologics development and biomanufacturing expertise
- Dr Anne Collins, Chief Operations Officer, Sementis

12:20 Lunch

2.20 LUNCH

1:20 KEYNOTE ADDRESS

Overcoming current and future challenges in logistics

- What are the major challenges facing Joint Logistics and what's on the horizon?
- What role can industry and research play in assisting logistics support?
- The challenge of balancing affordability with investment in supply chain resilience and stock depth
- Highlights of current collaborative approaches in logistics support

MAJGEN Jason Walk, *Commander Joint Logistics, Joint Capability Group*, **Australian Defence Force**

1:50 Development of Human Factors Engineering (HFE) design tools for control centres

- How traditional HFE methods constrain an ability to meet current schedule pressures
- Establishing new tools to provide insight into warfighter needs
- Translating these needs into engineering design guidance
- An overview of research undertaken by LMA and UniSA to overcome these issues and ensure that HFE output is established early in the engineering process to guide system design

John Towers, LM Fellow, Lockheed Martin Australia

Dr Peter Schumacher, *Design Lead, Studio for Complex Human* Environmental Design, **University of South Australia**

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CASE STUDIES IN COLLABORATION

2:10 Integrating physiological and tactical data to improve Command decision making

- Update on the collaboration between the University and South Australia and Acacia Systems to better understand submarine Command decision making
- Outcomes of the early research
- Outlining how it is envisaged that this will be implemented aboard Collins class submarines

Horden Wiltshire, CEO, Acacia Systems

Prof Siobhan Banks, *Behaviour-Brain-Body Research Centre*, **University of South Australia**

2:30 Advancing performance through advanced materials

- Collaboration from the Industry perspective
- Collaboration from the University perspective

— Future material challenges

Al Jawhari, Co-Founder and Group CEO, Starke-AMG

Prof Colin Hall, Future Industries Institute,

University of South Australia

2:50 Afternoon tea

CASE STUDIES IN COLLABORATION

3:20 Mobile AI-enabled VR training and simulation for the ADF Thomas Hastwell, *Chief Commercial Officer*, Lumination

Jeremy Satchell, Head of Global Access Program, BAE Systems

VENUE DETAILS

National Wine Centre of Australia

Corner of Hackney Rd &, Botanic Rd, SA 5000 **Phone:** (08) 8313 3355

3:40 DAIRNet: Management and Coordination of the Defence AI Research Network

- Overview of Defence in AI and current issues engaging with academia
- Overview of DAIRNET's objectives, current activities
- Building and expanding the Defence AI ecosystem

Dr Mel McDowall, Director,

Defence Artificial Intelligence Research Network

Dr Robert Hunjet, *Program Leader Artificial Intelligence*, **Defence Science and Technology Group**

4:00 End of symposium and networking drinks

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SME and Defence Rate *SME is defined as organisation w fewer than 200 employees worldw		\$49.50	\$544.50	\$100	\$595	\$59.50	\$654.50	

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