

international conference on

SCIENCE+INNOVATION FOR LAND POWER ¹⁸

Wednesday 5 September

City Rooms 1-4

Welcome and Opening

0830 - 0835	Welcome	Alex Zelinsky, CDS (DST Group, Australia)
0835 - 0850	Conference Opening Address	MDIND Hon. Christopher Pyne, MP
0850 - 0905	Chief of Army Address	Lieutenant General Richard Burr, AO, DSC, MVO, Chief of Army (Australia)
0905 - 0930	International Collaboration as a Tool for Technology Convergence	Ann Cataldo, Deputy Assistant Secretary of the Army for Defense Exports and Cooperation (USA)
0930 - 1000	S&T Innovation Pitches	Various Presenters (DST Group, Australia)

1000 - 1030 Morning Tea

Plenary Session (Chair: Dr Peter Shoubridge, DST Group)

1030 - 1100	Address by MAJGEN Kathryn Toohey, Head Land Capability	Army Headquarters (Australia)
1100 - 1120	Address by MAJGEN Chris Tickell, Director Capability	UK Army HQ (United Kingdom)
1120 - 1140	Address by MAJGEN Karl Engelbrektson	Chief of Army (Sweden)
1140 - 1205	Overview of ADD Ground Autonomy	Dr Hodong Seok, Vice President The 5th R&D Institute, Agency for Defense Development (Republic of Korea)
1205 - 1230	Address by Dr Tom Russell,	Deputy Assistant Secretary of the Army for Research and Technology (USA)

1230 - 1330 Lunch

Autonomy: Game-Changer for Army (Chair: BRIG David Wainwright, Director General Future Land Warfare, Australia)

1330 - 1355	Address by Dr Bob Sadowski, Chief Robotist	Tank and Automotive Research Development and Engineering Center (USA)
1355 - 1405	Army's Robotics and Autonomous Systems Framework	LTCOL Robin Smith, SO1 Robotic and Autonomous Systems, Future Land Warfare Branch, Army Headquarters (Australia)

PANEL DISCUSSION

1405 - 1520 *"From Current to Future Soldier Combat Ensemble – What? How? When?"*
Includes top potential game-changers by panellists, soldier presentations and a Q&A session.*

Panel Chair:

BRIG David Wainwright, Director General Future Land Warfare, Australia
Travis Reddy, CEO (DefendTex, Australia)
Dr Bob Sadowski, Chief Robotist (Tank and Automotive Research Development and Engineering Center, USA) (TBC)
Prof. Saeid Nahavandi, Director Institute for Intelligent Systems Research and Innovation (Deakin University, Australia) (TBC)
LTCOL Robin Smith, SO1 Robotic and Autonomous Systems, Future Land Warfare Branch, Army Headquarters (Australia)
Dr Torgny Josefsson, RLLPP (DST Group Australia)
Dr Nicholas Beagley, RLLHS (DST Group, Australia)

Autonomy Enhancing Land Power (Chair: Robert Bolia, Lead Autonomous Systems Strategic Research Initiative, DST Group)

1520 - 1530	Pitches for Interactive Sessions	
1530 - 1600	Afternoon Tea - Interactive Session 1 (City Foyer)	
1600 - 1620	AI in Weapons: The Moral Imperative for Minimally - Just Autonomy	Jason Scholz, TAS D-CRC (Australia) Jai Galliot, University of NSW (Australia)
1620 - 1640	Ravos: Exercising Contextually Aware Distributed Autonomic Control in Land Vehicles	Brendan Sims et al, DST Group (Australia)
1640 - 1700	Concept Development of Autonomous Multi-Purpose MHE for Logistics and Combat Service Support	Guy Gallasch, DST Group (Australia) Alex Schutz, University of Adelaide (Australia)
1700 - 1720	Quantifying and Predicting Human Performance for Effective Human-Autonomy Teaming	Anna Ma-Wyatt, University of Adelaide (Australia) Justin Fidock, DST Group (Australia) Hussein Abbass, University of NSW (Australia)
1720 - 1740	The Role of Rejection within the Trust Calibration Process: Insights from a Mixed-Methods Human-Robot Teaming Experiments	Tony Nguyen and Graeme Ditchburn, Murdoch University (Australia) Justin Fidock, DST Group (Australia)
1815 - 2200	LAND FORCES 2018 International Defence and Industry Dinner (Pre-purchased dinner ticket required for ICSILP 2018 delegates)	

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Thursday 6 September

City Rooms 1-4

Plenary Session (Chair: Peter Shoubridge, DST Group)

0830 - 0900	Address by Gabby Costigan , CEO Brad Yelland , Head of Business Strategy,	BAE Systems Australia BAE Systems Australia
0900 - 0925	ATLA's Plan for Land Force Research Activities Based on the Defense Technology Strategy and Technology Outlook	Toshimoto Noma , Director Ground Systems Research Center, Acquisition Technology and Logistics Agency (Japan)
0925 - 0950	Address by Dr David Galligan , Section Leader - Military Operations Analysis	Defence Technology Agency (New Zealand)

0950 - 1000 **Pitches for Interactive Sessions**

1000 - 1030 Morning Tea - Interactive Session 2 (City Foyer)

1030 - 1055	Address by Dr Paul Rogers (TBC) Director	Tank and Automotive Research Development and Engineering Center (USA)
1055 - 1120	The Challenge in Science & Technology, Innovation for Land Force of Thailand	LTG Sirasak Yuttapawet , Director General, Defence Science and Technology Department, Thailand Ministry of Defence

Technology Convergence Innovation Session 1 (Chair: Axel Bender, Acting Program Leader CAFS Integration, DST Group)

1120 - 1135	CAFSI Overview and Introduction to Session (TBC)	PL CAFSI
1135 - 1200	Technology Convergence Innovation in the SAF	Prof Quek , Chief Defence Scientist, Ministry of Defence (Singapore)

1200 - 1300 Lunch

1300 - 1330	Address by Dr Philip Perconti , Director	Army Research Laboratories (USA)
1330 - 1350	Enhancing Army Training and Education with the Bright Fox System	Philip Temby , DST Group (Australia) Luke Thiele , Rheinmetall Electronics (Australia)
1350 - 1410	Biomarker-Enhanced Free-Roam VR Technology for Tactical Training	Eugene Nalivaiko and Frederick Walker , University of Newcastle (Australia) Anthony Swinsburg , Zero Latency (Australia) Daniel Harrison , Army Headquarters (Australia) Eugene Aidman , DST Group (Australia)
1410 - 1430	Body Armour with Power Storage Capabilities	Jie Ding and Tim Bussell , DST Group (Australia) Caiyun Wang , Kewei Shu and Yu Ge, University of Wollongong (Australia)
1430 - 1450	Development of Tracked Combat Hybrid-Electric Vehicle	Hidetaka Taira , Takeshi Yoshikawa and Koki Jumonji, Ground Systems Research Center, Acquisition Technology and Logistics Agency (Japan)

1450 - 1500 **Pitches for Interactive Sessions**

1500 - 1530 Afternoon Tea - Interactive Session 3 (City Foyer)

1530 - 1550	Advanced Munitions: 3D Printed Firepower	Bryce Dolman , Andrew Hart , Ian Johnston and Chad Prior , DST Group (Australia)
1550 - 1610	Decision Support System Architecture for Threat Object Detection in Defence Environments	Canicious Abeynayake , DST Group (Australia)
1610 - 1630	Best Paper Awards and Close of Conference	Axel Bender , ICSILP Technical Co-Chair, DST Group (Australia)