

Future Land Force Conference 2014

DRAFT Program as of 12 August

Wednesday, 24 September

0700	0815	CDS Breakfast (by invitation only)	
Welcome and Opening			
0900	0905	Welcome	Simon Oldfield, CLD (DSTO, Australia)
0905	0920	CA Address	LTGEN David Morrison, CA (Army, Australia)
0920	0930	Conference Opening	Alex Zelinsky, CDS (DSTO, Australia)
Scene Setting			
0930	0940	"Deep Future Force Development utilising Emerging Technology Enablers" (Title TBD)	Jim Eckworth (Dstl, UK)
Topic 1 - Unleashing Human Potential (Chair: Nick Beagley, DSTO)			
0940	0945	Unleashing Human Potential - Army's Perspective	TBD
0945	1010	"Complex, Dynamic, and above all Human: Maximising Battlefield Outcomes "	Jim Storr (The Norwegian Military Academy, UK)
1010	1030	"Unleashing Human Team Performance via Simulation"	Laura Carter (DSTO, Australia)
1030	1100	Morning Tea	
1100	1125	"Nutritional Biochemistry and the Microbiome: Potential for Improving Physical and Cognitive Performance"	Kenneth Racicot (RDECOM-NSRDEC, USA)
1125	1150	"Biology of Effective Soldiering Today and into the Future – Brains, Brawn, and Guts"	COL Karl Friedl (USA)
1150	1210	"Human Factors approach to ballistic plate shape design"	Jemma Coleman (DSTO, Australia)
1210	1230	"Non-Invasive Brain Stimulation: Opportunities and implications for the ADF"	Steven Davis (DSTO, Australia)
1230	1330	Lunch	
Topic 6 - Autonomous Systems for the Land Force (Chair: Axel Bender, DSTO)			
1330	1335	Autonomous Systems for the Land Force - Army's Perspective	TBD
1335	1400	Title TBD	Peter Corke (ARC Centre of Excellence for Robotic Vision/QUT, Australia)
1400	1425	"Autonomous Systems for the Land Force"	Greg Houdas (RDECOM-TARDEC, USA)
1425	1445	"OPAL and HARLEQUIN – Addressing Survivability of Tactical Land Networks through Autonomy"	Kin Ping Hui (DSTO, Australia)
1445	1505	"Value Driven Interoperability of Autonomous Systems"	Steve Shooter (Bucknell University, USA)
1505	1530	Afternoon Tea	
PANEL DISCUSSION 1			
1530	1615	"The Role of Automation and Autonomy in the Future Land Force"	Thomas Russell (RDECOM-ARL, USA) Guy Vezina (DRDC, Canada) Peter Shoubridge (DSTO, Australia) Steve Shooter (Bucknell University, USA) <i>Senior Army Officer TBD</i>
Topic 2 - Agile Logistics, Power and Energy (Chair: Ralph Gailis, DSTO)			
1615	1620	Agile Logistics, Power and Energy - Army's Perspective	TBD
1620	1650	"Energy Security for Defence"	Andrew Blakers (Centre for Sustainable Energy Systems/ANU, Australia)
1650	1720	"Utilizing Modeling and Simulation to Quantify Operational Energy Impacts of New Technologies in a Multi-Level Scenario"	Brian A Ernst (RDECOM-TARDEC, USA)
1720	1740	"Improving Dismounted Soldier Capabilities by Analysing Power Performance"	Assa Gafni (Tectonica, Australia)
1740	1800	"VHUMS enables Life-Cycle Costs reductions in the Land Environment"	Michael Bray (DMO, Australia)
1800	1820	"Examining the Impact of Emerging Technologies – an Agile Logistics Case Study"	Ksenia Ivanova (DSTO, Australia)
1900	2200	Conference Dinner - Boulevard Room <i>Dinner Speaker: Hugh Durrant-Whyte, NICTA</i>	

Poster Session

Thursday, 25 September

Topic 4 - Land Force Networking and Integration (Chair: Peter Shoubridge, DSTO)			
0830	0835	Land Force Networking and Integration - Army's Perspective	TBD
0835	0900	Emerging ISR	Tony Lindsay (NSID/DSTO, Australia)
0900	0930	"Convergence of Multifunctional C4ISR Systems using Open Architectures"	Paul Zablocky (RDECOM-CERDEC, USA)
0930	0950	"Utilising next generation secure ad-hoc mobile networking to enhance information superiority for the Land Force"	Martin Rowse (Airbus Defence and Space, UK)
0950	1010	"Co-Site Interference Sources in Tactical Communications Networks"	Ian Coat (DSTO, Australia)
1010	1030	"Integrating Land Force Capabilities: Principles for Land System-of-Systems Integration"	Mark Unewisse (DSTO, Australia)
1030	1100	Morning Tea	
PANEL DISCUSSION 2			
1100	1145	"Integrating the Future Land Force – Challenges and Solutions"	Jill H Smith (RDECOM-CERDEC, USA) John Best (Thales Group Australia) Tony Lindsay (DSTO) Professor Quek Tong Boon (Chief Defence Scientist, MOD Singapore) <i>Senior Army Officer TBD</i>
Topic 3 - Protecting the Future Force (Chair: TBD)			
1145	1150	Protecting the Future Force - Army's Perspective	TBD
1150	1210	"Innovation in the Land Domain – The DMTC Model"	James Sandlin (DMTC, Australia)
1210	1230	"High Strength Fabrics for Combat Clothing"	Pierlot (CSIRO, Australia)
1230	1330	Lunch	
1330	1400	"Soldier Camouflage (A Road Map)"	Bob Balma (DRDC, Canada)
1400	1420	Title TBD (Talk on Australian Research into Combat Camouflage)	Janine Costa (DSTO, Australia)
1420	1450	"Novel Microbial Detection and Identification Technique in Complex Mixtures Using Mass Spectrometry Proteomics Approach"	Rabih E. Jabbour (RDECOM-ECBC, USA) (TBC)
1450	1520	Afternoon Tea	
Topic 5 - Next Generation Land Vehicles (Chair: Axel Bender, DSTO)			
1520	1525	Next Generation Land Vehicles - Army's Perspective	TBD
1525	1550	"Propulsion Science Strategy"	Ernest S.C. Chin (ARL-RDECOM, USA)
1550	1610	"Survivability of Wheeled and Tracked Vehicles against Shaped Charges and other Threats"	Herbert Peter Weisshaupt (Dynamit Nobel Defence GmbH, Germany)
1610	1630	"Vehicle Electronic Architecture Supporting Digitisation of the Modern Battle Field"	Michael Clark (Thales Group Australia)
1630	1650	"Integration of Legacy Equipment into Next Generation Land Vehicles: A Case Study"	Mark Jasiunas (DSTO, Australia)
Conference Close			
1650	1700	Closing Remarks	Simon Oldfield, CLD (DSTO, Australia)
1700	1800	Conference Farewell Drinks - Auditorium	

Poster Session