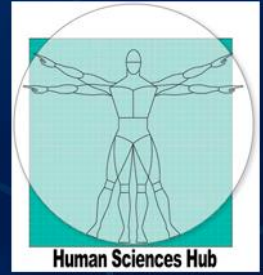




Australian Government
Department of Defence
Defence Science and
Technology Organisation



Defence Human Sciences Symposium 2014

**Crossing Discipline Boundaries:
Integrating the Human Sciences into
Defence and National Security Research**

19 -21 November 2014

www.dsto.defence.gov.au/event/dhss2014 | Email: DHSS@dsto.defence.gov.au

DSTO



Science and Technology for Safeguarding Australia

Defence Human Sciences Symposium 2014
Wednesday 19 November 2014 - National Wine Centre, Adelaide

9:30 – 9:40	Open	Symposium opening address	Organising committee	
9:40 – 10:30	KEYNOTE	Out with the old and in with the new (and even older): human factors theory and methods for future wicked problems	Prof. Paul Salmon, Director, USC Accident Research; Professor of Human Factors	University of the Sunshine Coast, Queensland
10:30 – 11:00		MORNING TEA		
11:00 – 11:25	Human Factors 1	Multidisciplinary approach to ballistic plate shape design	Jemma Coleman* & Sheena Davis	LD, DSTO
11:25 – 11:50		Physical Evaluations of Life-jackets	Andy Richardson	DTA, NZ
11:50 – 12:15		A Preliminary Anthropometry Standard for Australian Army Equipment Evaluation	Mark Edwards*, Alistair Furnell et al.	LD, DSTO
12:15 – 12:40		Encumbered Anthropometry for the ADF: Exploring the Boundaries	Nathan Daniell* & Sheena Davis	UniSA / LD, DSTO
12:40 – 13:30		LUNCH		
13:30 – 13:55	Human Factors 2	Evaluating the Index of Cognitive Activity as a measure of mental workload	Kingsley Fletcher*, Alistair Walsh et al.	WCSD / LD, DSTO
13:55 – 14:20		Transfer of training for Battle Management Systems: From simulators to the real world	Charlotte Brunner*, Susannah Whitney & Justin Fidock	UniSA / LD, DSTO
14:20 – 14:45		Investigating Ideal Operator and Aid Response Bias in a Simulated Baggage Screening Task	Megan L. Bartlett* & Jason S. McCarley	Flinders Uni
14:45 – 15:15		AFTERNOON TEA		
15:15 – 15:40	Biometrics	A photoanthropometric approach to predict statures of partially occluded pedestrians in security videos	Tony Scoleri, Maciej Henneberg, Geoff Nichols*	NSID, DSTO / Univ Adel
15:40 – 16:05		Reliability of photoanthropometry in the assessment of low quality images	Teghan Lucas*, Tony Scoleri & Maciej Henneberg	NSID, DSTO / Univ Adel
16:05 – 16:30		Temporal Changes in Body Dimensions of Male Permanent Australian Army Personnel	Nathan Daniell*, Grant Tomkinson et al.	UniSA / DSTO

Defence Human Sciences Symposium 2014
Thursday 20 November 2014 – DSTO Edinburgh, Scot Allison Theatre

9:30 – 9:40		Welcome to DSTO Edinburgh	Organising committee	
9:40 – 10:30	KEYNOTE	The Australian Army: Our people <i>are</i> the capability	LTCOL Corey Shillabeer, SO1 Strategic Force Generation	Army Headquarters, Australian Army
10:30 – 11:00		MORNING TEA		
11:00 – 11:25		Positioning the Human Sciences to Support Future Defence Needs	Nick Beagley	Research Leader, Land Human Sciences, LD, DSTO
11:25 – 11:50	Organisational Learning	New Zealand Defence Force Organisational Culture Study	Nikki Rasmussen*, Kimberley Ballantyne & Sarah Overdale	Organisational Research, NZ Defence Force
11:50 – 12:15		Applying organisational learning concepts to Australian defence acquisition process: a case study of the Land121 project	Wendy Wong*, Justin Fidock et al.	Univ Adel / LD, DSTO
12:15 – 12:40		Shared Vision: What is it good for?	Tiffany Fischer	LD, DSTO
12:40 – 13:40		LUNCH		
13:40 – 14:30	KEYNOTE	Soft targets: smarter approaches to countering violent extremism	Prof Michele Grossman, Director Centre for Cultural Diversity and Wellbeing	Victoria University, Melbourne
14:30 – 14:55		Longitudinal Impacts of Combat Exposure: Neurocognitive, Psychological and Biological Outcomes	Alexander McFarlane, Ellie Lawrence-Wood* et al.	Centre for Traumatic Stress Studies, Univ Adel
14:55 – 15:25		AFTERNOON TEA		
15:25 – 16:40	Panel Discussion	"Defence Cultural Change... the so what factor" (Scot Allison Theatre) – All welcome	Chair: Maya Drobjnak	LD, DSTO
			Vanessa Barone	Directorate of Workforce Intelligence, Dept Defence
			Jodie Vaile	Directorate of Strategic People Research, Dept Defence
			Rachel Green	
18:30 – 19:30	HS Hub	DSTO staff meeting: The Future of the HS Hub?	DSTO staff only	The Strathmore Hotel
19:30	Conference Dinner	ALL WELCOME! - PAID FOR WITH YOUR REGISTRATION		The Strathmore Hotel 129 North Terrace, Adelaide

Defence Human Sciences Symposium 2014
Friday 21 November 2014 – DSTO Edinburgh, Scot Allison Theatre

9:40 – 10:05	Sleep and Fatigue	Sleep characteristics of a small Australian Army population and the effect of sleep deprivation on their simulated driving performance		Elizabeth Thorpe*, Kayla Johnson et al.	Univ Adel / LD, DSTO
10:05 – 10:30		Usability of Command and Control Technology while Accumulating Sleep Loss		Monica Stokes*, Kayla Johnson et al.	
10:30 – 11:00		MORNING TEA			
11:00 – 11:25		Caffeine chewing gum administered at regular night-time intervals reduces the impact of sleep deprivation on driving performance	HSI Workshop (HQ Boardroom)	Kayla Johnson*, Gemma Paech et al.	LD, DSTO / UniSA / Walter Reed AIR
11:25 – 11:50		Reducing Psychological Dependency on Ideological Groups		Kira J. Harris	Edith Cowan University
11:50 – 12:15	Psychology	Introducing the 'Human Scale Development (H-SD)': A Transdisciplinary Approach for Diagnosis, Planning, Assessment and Evaluation		Jacqueline Willans-Price	JOAD, DSTO
12:15 – 12:40		The Fantasy Factor: Does Reading Fantasy or Science Fiction Influence Analyst Performance?		Jeff Corkill	Edith Cowan University
12:40 – 13:30		LUNCH			
13:30 – 13:55	National Security	Understanding how Age Affects Facial Matching Performance of Humans and Facial Recognition Systems: Requirements Collection from Whole of Government and Industry		Dana Michalski*, Brett McLindin et al.	NSID, DSTO / Univ Adel
13:55 – 14:20		The Impact of Glasses on Facial Recognition System Performance: Focus on Human Perspectives		Rebecca Heyer*, Monique Kardos et al.	NSID, DSTO
14:20 – 15:00		Best paper presentation and CLOSE			
15:15 – 15:45		Tour of DSTO Land Vehicle Simulation Environment		Justin Fidock	LD, DSTO

Workshop and Panel Event Details, DSTO Edinburgh

"Defence Cultural Change... the so what factor" Panel Discussion. Chair: Maya Drobnjak				
Thu 20 Nov 15:25 – 16:40, Scot Allison, Bld 206	Measuring Cultural Change – Pathway to Change metrics	Vanessa Barone	Directorate of Workforce Intelligence, Dept Defence	
	Unacceptable Behaviour and Pathway to Change	Jodie Vaile	Directorate of Strategic People Research, Dept Defence	
	Having YourSay in Pathway to Change	Rachel Green		
Human Systems Integration Workshop. Chair: Susan Cockshell				
Fri 21 Nov 11:00 - 12:40, HQ Boardroom, Bld 206	Human Systems Integration in Context: The Nexus Between Human Systems Integration, Work Health & Safety, Safe Design And Risk Management	P.J. Fleming* & Nick Coleman	Defence Centre for Occupational Health & Safety / Human Systems Group	
	Early Human Factors Risk Analysis for RAN Future Frigates	Susan Cockshell* & Suzanne Hanna	WCSD - DSTO	