	DHSS Program, Thursday 29 th November	
0845 – 0900	Welcome – Nick Beagley [Research leader: Land Human Systems]	
0900 – 0940	Opening Keynote Address Going Deep with Robots: Undersea Warfare in the 2040s CDRE Steve Davies	
0940-1000	Morning Tea	
Session 1 – CHAIR - Chris Best: Human Systems Integration: Autonomy		
1000 - 1020	Kate Devitt. Design Principles for Lethal Autonomous Weapons Systems [2]	
1020 - 1040	Madeleine Krastev and Philip Temby. Exploring the Cognitive Aspects of Human-Autonomy Teaming in the Land Domain: A Scoping Review [4]	
1140 - 1100	Cassandra Heffernan, Susan Cockshell and Anna Ma Wyatt. <u>The Effect of Swarm Image Integration on</u> Human Performance and Workload in the Maritime Domain [41]	
1120 - 1140	Shayne Loft, Brittany Lock, Adella Bhaskara, Michael Skinner, James Brooks, Helen Pongracic and Jason Bell. <u>Human-Autonomy Teaming in the Management of Unmanned Vehicles: The Effect of Automation</u> <u>Transparency and Mission Stakes</u> 4 [29]	
1140 – 1200	Michael Skinner. <u>Autonomous Warrior 2018: Evaluating the effectiveness of a command and control</u> system to support supervisory control of multiple uninhabited vehicles [22]	
1200 - 1300	Lunch & Poster Sessions	
	Session 2 – CHAIR - Phil Temby: Human Systems Integration: HCI and Automation	
1300-1320	Kingsley Fletcher, Megan Bartlett, Susan Cockshell and Jason McCarley. <u>Visualising Probability of</u> Detection to Aid Sonar Operator Performance [3]	
1320 – 1340	Vanessa Bowden, Drew Butson, Natalie Griffiths and Shayne Loft. <u>Supervising Highly Reliable Automation</u> - Effects of Instructed Reliability on Detection of a Single Failure in Air Traffic Control [34]	
1340 – 1400	John Cass and Kingsley Fletcher. <u>Where the bleep are you? Effects of audio-visual sensory substitution on</u> sonar detection performance [6]	
1400 - 1420	Rest Break	
Session 3 – CHAIR - Ross Coad: Human Performance: Food and Nutrition		
1420 – 1440	Katie Tooley and David Crone. <u>The microbiome and the soldier: Can it be manipulated to enhance</u> <u>cognition (A Review)? [11]</u>	
1440 – 1500	Julia Carins, Sharyn Rundle-Thiele, Anna Kitunen and Di Robertson. <u>Skilling and supporting: Enhancing</u> healthy eating behaviours in early career personnel [17]	
1500 – 1520	Anna Kitunen, Julia Carins and Sharyn Rundle-Thiele. <u>Encouraging healthy eating in The Australian</u> Defence Force: A segmentation approach [20]	
1520 – 1540	Jeanine De Diana, Roger Stanley and Rosa Peterson. <u>Functional High Energy Bar for Physical and</u> Cognitive Performance [21]	
1540 – 1600	Lan Bui, Roger Stanley, Ross Coad and Amir Ghandi. <u>Future Defence Feeding Systems Enabled by Rapid</u> <u>Microwave Processing [35]</u>	
1600-1640	Afternoon Tea & Poster Session	
Session 4 – CHAIR – Mark Jaffrey : Human Performance: Physiology		
1640 – 1700	Anthony Leicht, Wade Sinclair, Kenji Doma and Paul Bowman. <u>Weekly Heart Rate Variability Recordings</u> Can Predict Physical Performance [8]	
1700 – 1720	Andrew Hunt, Ian Stewart and Daniel Billing. <u>What does it mean? Interpreting data from wearable</u> technologies for monitoring physiological strain [38]	
1720 – 1740	Matthew Palmer, Ashlee Turner, James Sauer and James Fell. <u>Effects of Acute Physical Exercise on</u> Metacognition [43]	
1830 - 1900	Meet for Dinner	
1930 – 2200	Conference Dinner: Including Keynote MAJ Sally Graham	

DHSS Program, Friday 30 th November		
0830	Welcome – Overview – David Crone	
Session 5 – CHAIR – Susan Cockshell: Cognitive Performance: From Perception to Decisions		
0840 – 0900	Joseph Calleja, Benjamin Hoggan and Philip Temby. Psychological Predictors of Military Decision-Making	
	Performance on Tactical Planning Exercises [7]	
0900 – 0920	Maria Gavrilescu, Renee Karas, Amanda Douglass, Larry Abel and Peter Gibbs. Establishing tolerance	
	limits for optical misalignment in night vision binocular devices based on task performance and	
	physiological markers of fatigue [15]	
0920 – 0940 0940 – 1000	Andrew Lawrence, Eugene Aidman, Kim Felmingham, Ellie Lawrence-Wood and Alexander McFarlane.	
	Neural response discrimination between threat and non-threat stimuli is reduced in combat-exposed	
	military personnel: Event-related potential (ERP) evidence from the MEAO prospective study cohort [16]	
	Alex Chatburn, Maarten Immink, Diane Pomeroy, Bruce Thomas, Ina Bornkessel-Schlesewsky, Matthias	
	Schlesewsky, Javaan Chahl and Mark Bilinghurst. <u>Adaptive virtual reality cognitive training based on real</u>	
	time alpha power measurement [18]	
1000 - 1020	Shahd Al-Janabi and Larissa Cahill. Making the unseen seen: Using the perceptual and cognitive sciences	
	to guide augmented-reality design [19]	
1020 - 1040	Morning Tea	
Session 6 Continued – CHAIR – Sam Huf: Cognitive Performance: From Perception to Decisions		
4040 4400	Angela Bender, Shayne Loft, Ottmar Lipp, Vanessa Bowden, Susannah Whitney and Troy Visser. Situation	
1040 - 1100	Awareness Mediates the Relationship between Working Memory Ability and Performance on the Air	
	Iraffic Control Task [24]	
1100 - 1120	Udo Boenm, Dora Matzke, Matthew Gretton, Spencer Castro, Joel Cooper, Michael Skinner, David	
Consider 7 TH	Strayer and Andrew Heathcole. <u>Real-time prediction of nuctuations in cognitive workload [42]</u>	
Session 7 – THEME - CHAIR – Sam Hut: Defence Focused – Resilience and Fatigue		
1120 - 1140	Josiyii Mak, Wesley Micheman and Jiangjun Tang. Job Demanus-Resources (JD-R) as predictors towards	
	the experience of fatigue in the Australian Defence Force (ADF) pilots and maintainers [9]	
1140 - 1200	for the submarine environment: a case study on evaluring submariner endurance [26]	
	Sabina Kleitman, Eugene Nalivaike, Matthew Planchard, Simon A Jackson, Nikrad Pahaji Pizvandi and	
1220 – 1220	Sabilia Kielinali, Eugene Nalivaiko, Matthew Blanchalu, Sinoli A Jackson, Nikzau Babali Kizvanul and	
	Assessing Individual Differences in Resilience and Adaptability [27]	
1220 - 1300		
1220 1300	Session 7 – CHAIR – Susannah Whitney - Human Performance: Teams	
	Matthew Blanchard, Sabina Kleitman, Simon Jackson, Nikzad Bahaji Rizvandi and Eugene Aidman, Team	
1300 – 1320	similarity profiles: Is psychological similarity associated with team performance? [26]	
1320 - 1340	Michael Chapman, Philip Temby and Daniel Gucciardi, Measuring Team Role Preferences and Perceptions	
	of Team Resilience in Australian Army Personnel [30]	
	Steph Michailovs, Stephen Pond, Megan Schmitt, Jessica Irons, Matthew Stoker, Troy Visser, Sam Huf and	
1340 - 1400	Shavne Loft, Exploring Fundamental Issues of Team Performance in a Submarine Control Room Use	
1010 1100	Simulation Environment [39]	
1400 - 1420	Philip Temby, Ben Hoggan, Michael Chapman and Daniel Gucciardi, Examining Team Role Preference and	
	Team Performance in a Military Population [25]	
Panel Discussion		
1420 - 1520	Discussion: Minders, Mentors, Minions or Mates – Warfighter roles in Future Complex Systems	
	Chair: Eugene Aidman - PARTICIPANTS: To be confirmed.	
1520 - 1530	Symposium Close & Awards: David Crone	