Thursday 30 November 2017					
08.00am	Registration Open  Room 105/106				
08.30-09.30	Invited keynote: Louise Burke, Australia Supporting training and performance in the military environment through nutrition and supplementation				
09.30-10.30	Invited keynote: Maria Fiatorone Singh, Australia Resistance training, it's a no brainer				
10.30-11.00	MORNING TEA				
	Room 103	Room 104	Room 105	Room 106	
11.00-12.00	Featured Science Session 13 - Injuries and injury surveillance systems in military and other tactical occupations Session chair: Rob Orr, Australia	Featured Science Session 12 - Fitness, training, cognitive and hormonal characteristics associated with musculoskeletal injury and physical performance in Special Operation Forces - an international perspective  Session chair: Kim Beals, USA	Featured Science Session 11 - Sex-specific considerations in stress fracture risk of military personnel Session chair: Julie Greeves, UK	Featured Science Sessio 10 - Metabolic fuelling for performance and recovery during high altitude combat operations  Session chair: Stefan Pasiakos, USA	
	Injuries suffered by Australian Army recruits completing basic training Ben Schram, Australia  Evaluation of musculoskeletal injury trends in United States initial entry Soldiers Jo Ellen Sefton, USA  Injuries suffered by an Australian State Police Force Michael Stierli, Australia  Contributing factors to structural firefighter injury Kaitlin McGinnis, USA	The association of physical training with musculoskeletal injuries in US Special Operation Forces Kim Beals, USA  Special operations mental agility training for the Canadian Special Operations Forces Command Paige Mattie, Canada  Changes in body composition, power and hormonal status during and after a prisoner of war exercise in Norwegian Navy Special Operations Command (NORNAVSOC) recruits Paul Andre Solberg, Norway  Stress and determinants of shooting performance among Norwegian Navy	Sex differences in skeletal adaptation to mechanical loading: implications for stress fracture risk Rachel Izard, UK  The incidence and risk factors for stress fractures and other injuries among U.S. Army trainees Bruce Jones, USA  Risk of lower extremity stress fracture with commonly prescribed drugs in female warfighters Julie Hughes, USA  Iron: an essential nutrient for warfighter performance James McClung, USA  Intervention program to lower overuse injuries	Physiological effects of hypoxia on Warfighters conducting high-altitude operations Andrew Young, USA  Nutritional countermeasures to skeletal muscle loss during high-altitude operations Stefan Pasiakos, USA  Appetite and diet composition at high altitude Philip Karl, USA  Effects of carbohydrate supplementation during aerobic exercise and altitude acclimatization on exogenous carbohydrate oxidation and performance Robert Kenefick, USA	

	,	Jan Erik Buskerud, Norway	among women warfighters Ran Yanovich, Israel	
	Free Communication Session 11 - load carriage 2	Free Communication Session 10 - Injury prevention 2	Rail Tallovich, islaei	
12.00-12.15	Physiological factors of importance for load carriage Mikael Mattsson, Sweden	Utility of incident and injury surveillance systems for incident and injury risk management in tactical populations Rod Pope, Australia		
12.15-12.30	The effects of increasing thoracic load carriage, using a backpack and body-armour ensemble, on peak aerobic power and exercise tolerance Gregory Peoples, Australia	Force preservation through individual blast exposure surveillance Scott Featherman, USA		
12.30-12.45	Vertical ground reaction forces and sagittal plane ankle kinetics during stair ascent and descent as a function of load carried Harrison Crowell, USA	Embedded physiological monitoring programme to reduce injury rates David Edgar, New Zealand		
12.45-13.00	Lower-limb joint work and power are modulated differently during load carriage based on speed and load configuration Gavin Lenton, Australia	Does low aerobic performance increase musculoskeletal injury risk in the military? a systematic review with meta-analysis  Jeremy Witchalls,  Australia		
13.00-13.15	The soldier's load: how much is enough? Stephen Rudzki, Australia			
13.00-14.00	LUNCH AND POSTER SESSION 2	2		
	Room 103	Room 104	Room 105	Room 106
	Free Communication Session 12 - Sleep and recovery	Featured Science Session 16 - Wearable assistive devices for dismounted soldiers Session chair: Angela Boynton, USA	Featured Science Session 15 - Physical performance in soldiers at environmental extremes: responses and adaptations Session chair: Julien Périard, Australia	Featured Science Session 14 - Non- pharmacological military performance enhancement technologies Session chair: Karl Friedl and Mark Buller, USA
14.00-14.15	Efficacy of THN102, a new combination between modafinil and flecainide low-dose,	Viability of using a wearable assistive device to reduce soldier burden	Mitigating the impact of cold air exposure on	A novel individual heat acclimatisation dosimeter concept

14.15-14.30 14.30-14.45 14.45-15.00	during total sleep deprivation in healthy subjects: a double-blind, randomized, placebo and modafinil controlled study Fabien Sauvet, France  Effective soldier's recovery and dynamic sleep: objective method for evaluating transient sleeping environments Olga Troynikov, Australia  Analysis of work-rest profiles, fatigue and performance during an ANZAC class frigate cruising watch Helen Kilding, New Zealand  Auditory closed-loop stimulation to enhance sleep quality Pierrick Arnal, France  Secular trends in insomnia and associations with deployment and combat exposure in the entire population of US Army Soldiers, 1997-2011 Joseph Knapik, USA	Thomas Karakolis, Canada  Powered lower limb soft exosuit to reduce energy cost during load carriage Angela Boynton, USA  Passive exoskeleton to transfer backpack mass to the ground Kurt Mudie, Australia  Effect of a load distribution system on mobility and performance during simulated and field hiking while under load Karen Kelly, USA  Mitigating load carriage burden – the Dynamic Weight Distribution (DWD) hip belt Yoram Epstein, Israel  Wearable energy harvesting technologies: physiological cost and operational readiness Courtney Haynes, USA  Relationship between metabolic cost and power output with a prototype energy harvesting assault pack Courtney Haynes, USA	soldier wellbeing and performance Jay Ollie, Australia  Heat stress and the modern day solider: can we prevent heat illness? Julien Périard, Australia  Altitude: friend or foe? Laura Garvican-Lewis, Australia  Challenges and opportunities of aquatic environments for healthy and injured soldiers Jim Cotter, New Zealand	Simon Delves, UK  Physiologically-based real-time pacing algorithms  Mark Buller, USA  Subject-specific prediction of body core temperature using nonlinear population modelling  Kok-Yong Seng, Singapore  Predicting individual risk of altitude illness using real-time monitoring of accumulated hypoxic debt  Beth Beidleman, USA  Auditory closed-loop stimulation to enhance sleep quality  Pierrick Arnal, France
15.30-16.00	AFTERNOON TEA		Room 103	Room 104
16.00-17.00	Free Communication Session 13 - Impact of deployment and combat exposure		Thematic Oral Poster Session 6 - Psychological and cognitive considerations	Thematic Oral Poster Session 7 - Occupational performance and testing 2
	The physical demands of mi month peace keeping missic Mali Gerard Rietjens, The N	on in	Self-reported combat- related symptom scores change after witnessing a teammate's improvement following stellate ganglion block for post- traumatic stress symptoms James Lynch, USA	A fitness assessment for the Canadian Army - FORCE combat Tara Reilly, Canada
	The Shared Motorised Military Land Transit Experiences of Australian Defence Force Infantry Personnel Thomas Debenedictis, Australia		Using a controlled virtual	A physical employment

		stress responses of soldiers Olaf Binsch, The Netherlands		
	Disease and non-battle injuries (DNBI) in austere environments: lessons learned, for the DoD Role I, from CL Garoua, Cameroon, U.S. Army Africa (USARAF/SPMAGTAF)  Paul Auchincloss, USA	A preliminary study of the effects of load carriage on cognition during a simulated military task in male and female soldiers Nicola Armstrong, UK	USAF occupationally specific, operationally relevant physical fitness tests and standards: effects of mission and environmental stressors Neal Baumgartner, USA	
	The impact of a military training and operational deployment on health and performance measures in submariners of the Royal Netherlands Navy Pieter Helmhout, The Netherlands	Effects of military survival training on Brazilian Air Force soldiers' cognitive function Patricia Paiva, Brazil	A comparison of the metabolic demands of Royal Australian Navy criterion tasks to other physically demanding occupations  Catriona Burdon,  Australia	
		Tactics to Optimize the Potential (TOP) program for French military forces Laurent Rocco, France	A novel method for estimating pull forces during a casualty extraction task Kane Middleton, Australia	
		Mental fatigue influences subsequent marksmanship decision James Head, USA		
17.00-18.30	Results from an International Survey - Critical Research "Gaps/Needs/Priorities" pertaining to Soldiers' Physical Performance  Marilyn Sharp, USA  Interactive Case Study - Dismounted Soldier Performance Assessment: Going Beyond the Individual  Graham Fordy, New Zealand			

The program is subject to change.