

TUESDAY (12	/09/2023)		
Time 08:45 to 09:00	Title Welcome and Introductions	Presenter or Chair Organising Committee	Room Main
09:00 to 09:15	Opening Warmarka I	Brigadier Tony Finn	Main
09:15 to 09:45 09:45 to 10:30	Keynote 1 Keynote 2	General Sir Patrick Sanders Professor Mihaela van der Schaar	Main Main
10:30 to 11:00 11:00 to 12:30	Coffee Break Thematic Sessions 1 to 4		
	Thematic 1: Measuring and modelling performance and musculoskeletal effects of load carriage	Pinata Sessoms	Main
	Thematic 2: Soldier combat ensemble considerations for women Thematic 3: Soldiers at high altitude	Nicola Armstrong Beth A Beidleman	2
12:30 to 13:15	Thematic 4: Human-machine teaming Lunch	Jitu Patel	3
12:45 to 13:15	Lunchtime Talk : Capt Preet Chandi 'Polar Preet', Polar Explorer and World Record Holder	Capt Preet Chandi	Main
13:15 to 14:45	Oral Communication 1: Physical Training; Chair: Professor Brad Nindl A pilot study on the efficacy and efficiency of CURATE.AI-guided endurance training	Alexandria Remus	Main Main
	12-week maximal strength training period during military service Generating resilience to injuries through training (GRIT)	Tommi Ojanen Eric Robitaille	Main Main
	Effects of high-intensity functional training on serum testosterone, cortisol and IGF-1 levels during military service	Joonas Helén	Main
	Group and individual endogenous hormonal responses to acute resistance exercise and load carriage workouts Oral Communication 2: Musculoskeletal Injury and Physiology; Chair Dr Jo Fallowfield	Barney Wainwright	Main 1
	Disorganized Achilles tendon structure is related to lower neuromuscular ability and ankle impairments in recruits The association between neuromuscular performance and chronic ankle instability in pre-recruitment infantry soldiers	Nili Steinberg Jeremy Witchalls	1
	Daily rating of perceived exertion, wellness and injury risk during Army basic military training	Neil Gibson	1
	Association between embedded injury prevention experts in U.S. Army initial entry training and early discharges from service Perceived health and self-regulation are associated with on-time graduation:	Daniel Clifton Sarah J de la Motte	1
	the Initiation of Marine Physiological Assessment of Combat Training (IMPACT) study Pain sensitivity and processing in high performance combatant craft crewman: an early indicator of injury risk?	Karen R Kelly	1
	Oral Communication 3: Cognitive Performance; Chair: Dr Graham Fordy Cognitive genomics: mapping the genetic architectures of cognitive fitness	Scott Clark	2
	Relationship between habitual caffeine consumption, attentional performance and individual alpha frequency during total sleep deprivation	Michael Quiquempoix	2
	Towards digital and standardised measures of close-quarters battle tactical performance using virtual reality Combined cognitive and physical training; a more efficient and tolerable means of enhancing cognitive and physical performance:	Annemarie Landman Amanda Scott	2
	preliminary findings from a randomised controlled trial with young healthy adults Effect of total sleep deprivation and ammonia inhalants on reaction time in military personnel	Jan Malecek	2
	Salivary biomarkers in fighter pilots during a four-day military flying exercise Oral Communication 4: Environmental Stressors, Exposures, and Injuries; Chair: Prof Jason Lee	Tuomas Honkanen	3
	Secure the future soldier's readiness through the brain-body connection using a neuroscience-informed approach	Charles Verdonk	3
	Negative effect of sleep restriction on heat tolerance to even mild hyperthermia induced by passive exposure Effectiveness of a short-term isothermal heat acclimation protocol in a military population	Pierre-Emmanuel Tardo-Dino Koen Levels	3
	Urinary metabolites measured at sea level predict altitude-induced acute mountain sickness outcome Protective effect of a high heat capacity mattress on sleep during heat exposure	Camilla A Mauzy Fabien Sauvet	3
13:15 to 14:45	Posters 1		Posters
	Data Analytics and Predictive Modelling Military occupational injury risk analysis using machine learning decision trees	Joseph R Pierce	Board 1
	The Probability of becoming an Operator given specific Test resultS P(OITS): design and preliminary acceptance results of the physical testing part of a nationwide study	Alain Doessegger	Board 2
	Upper respiratory tract infection detection with wearable technology Development and implementation of an onboard physical load monitoring and feedback system for high-speed craft operators	Christina Young Lotte Linssen	Board 3 Board 4
	New data analytics approach to marksmanship training Ergonomic fit evaluation of personal protective equipment using 3D scan technology	Paddy Little Laura Ahsmann	Board 5
	Development of early warning systems: how to assess one's physiological individual baseline information	Theresa Schweizer	Board 7
	Finite element modeling framework for evaluating the effectiveness of protective plates in minimising tissue damage resulting from a non-penetrating ballistic impact	Yoram Epstein	Board 8
	Physical Performance A smartphone application tests your physical performance - How accurately does the 4-minute all	Regina Oeschger	Board 9
	out run measure your endurance performance? A pilot study Soldier strength responses to prolonged load carriage during a 72-hour mission	Maria Talarico	Board 10
	Functional movement screen performance of US Army active-duty light infantry soldiers The physiological demands of helicopter winch rescue in water and over land	Maria Talarico Ben Meadley	Board 11 Board 12
	Alterations in gait markers during a timed ruck march using single inertial measurement unit	Vanessa J Ramirez	Board 13
	Association of blood biomarkers to force-on-force engagement, small unit lethality, and in-field performance Weighted counter movement jump braking force variables in response to military specific load carriage	Jason Soares Christopher Vine	Board 14 Board 15
	The relationship between isometric mid-thigh pull force-time characteristics and 2-km load carrying performance in trained British Army soldiers Impact of combat equipment on respiratory muscle power during load carriage performance	Jonpaul Nevin Mark T White	Board 16 Board 17
	A comparison between different military ranks' performance in a 3.2 km loaded march test	José Maurício Magraner	Board 18
		C 1 M 11 D 1	D 1.10
	Performance of British Army personnel in a swimming representative military task The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching	Sarah Needham-Beck Jonathan Wheat	Board 19 Board 21
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study	Jonathan Wheat Fabio Alves Machado	Board 21 Board 22
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens	Board 21 Board 22 Board 23 Board 26 Board 27
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman	Board 21 Board 22 Board 23 Board 26
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 33
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 33 Board 34 Board 35
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 45
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platf	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 45 Board 37 Baord 38 Baord 39
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platforms	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 46
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platf	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 47 Board 41 Board 41 Board 42
	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platforms The deve	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 47 Board 47
15:00 to 16:30	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour; implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platf	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 40 Board 41 Board 42 Board 43
15:00 to 16:30	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PT): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trailed in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platforms The d	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 43 Board 43 Board 44
15:00 to 16:30	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platforms The	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 43 Board 44
	The effect of marching speed on approximated centre-of mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Aasociations among body composition, performance, and military occupational demands A new categorisation tool for physical finess (CT-PP): fedicant and valid assessment of physical performance in personnel recruitment and military medical assessments. Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on belinet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterrancean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin awimming in a awimming flume: effects of surface immension Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances an approach using and improving available monitoring systems recently trailed in units of the Dutch Armed Forces Using a novel multi-array facial electromyography for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platforms	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 43 Board 43 Board 44
15:00 to 16:30 16:30 to 17:00 17:00 to 18:00	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isolcinetic variables in the lone joint after a 12 km simulated military road march a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical finess (CT-PF): efficient and valid assessments of physical performance in personnel recruitment and military medical assessments Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated factical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour implications for body armour fit Accuracy of mission specific military variant wearable ECQ monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in as swimming flume: effects of surface immension Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Putures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trailed mustus of the butch Armed Forces Using a novel multi-array facial electromycgraphy for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human system performance with automatic small arms platforms Th	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 45 Board 45 Board 47 Board 40 Board 40 Board 41 Board 42 Board 43 Board 44 Main 1 2 3 Main
16:30 to 17:00	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military cocupational demands A new categorisation tool for physical finess (CPPP): fecinism and valid assessments of physical performance in personnel recruitment and military medical assessments. Repeated prolonged bouts of load carriage impact walking stability of soldiers Effects of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training subterransean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming flume: effects of surface immersion Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trailed in units of the Dutch Armed Forces Using a novel multi-array facial electromycraphy for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-system performance with automatic small arms platforms T	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 42 Board 43 Board 44 Main 1 2 3
16:30 to 17:00	The effect of marching speed on approximated centre of mass vertical movement during treadmill marching Temporal effect of backpacking on isokinctic variables in the knee joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CT-PT): efficient and valid assessment of physical performance in personnel secrutiment and military medical assessments Repeated proincaged bouts of load carrage impact validing stability of soldiers Effect of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compand to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiclogical changes observed during military tasks in a training multeranean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Porces U.Sing heart tate within a squad to predict squad cohesion Oxygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin swimming in a swimming fiume: effects of surface immension Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances an approach using and improving available monitoring systems recently trialled in units of the Datch Armed Forces Using a novel multi-array facial electromyoraphy for fatigue evaluation during an anaerobic exercise test A mixed-reality environment for the assessment of situational awareness of the dismounted soldier Emerging methods for quantifying human-eystem performance with automatic small arms platforms	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 45 Board 45 Board 49 Board 40 Board 40 Board 40 Board 41 Board 42 Board 43 Board 44 Main 1 2 3 Main Main Main Main Main
16:30 to 17:00	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backspacking on isokinctic veriables in the knoe joint after a 12 km simulated military road march: a pilot study Associations among body composition, performance, and military occupational demands A new categorisation tool for physical fishese (CFFF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessment of physical performance in personnel recruitment and military medical assessment of physical performance in personnel recruitment and military medical assessment of physical performance in personnel recruitment and military medical assessment of physical performance in personnel Repeated prolonged botton of loud carriage impact validing stability of soldiers Elficets of head borne loads on helmet stability during a simulated tactical shooting task The effect of muscle activity on shooting accuracy Training and education on fitting and adjusting body armour implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Psychophysiological changes observed during military tasks in a training subternance compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Porces Using hour ratio within a squad to predict squad cohesion Ozygen uptake (VO2) and pulmonary ventilation (VE) during military surface fin asymming in a asymming finuse effects of aurface immension Evaluating alsep patterns and perceptions of sleep quality between Efficial Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances as approach using and improving available monitoring options recently trained in units of the Ducht Armed Forces Using a novel multi-array facial electromyography	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 42 Board 43 Board 43 Board 44
16:30 to 17:00	The effect of marching speed on approximated centre-of-mass vertical movement during treadmill marching Temporal effect of backpacking on isolicinetic variables in the knee joint after a 12 km animulated military road march: a pilot study Association among body composition, performance, and military occupational demands A new categorisation tool for physical fitness (CF PF): efficient and valid assessment of physical performance in personnel recruitment and military medical assessment of physical performance in personnel recruitment and military medical assessment of physical performance in personnel recruitment and military medical massessments Repeated prolonged bouts of loud carriage impact walking stability of soliciers Effects of head borne loads on helme stability during a simulated tactical absociant task The effect of muscle sativity on shooting accuracy Training and education on fitting and adjusting body armour: implications for body armour fit Accuracy of mission specific military variant warshe ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a training cuberanean compound Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using hastar task within a squad to predict aquad cobasion Oxygen uptake (VO2) and pulmonary wentilation (VE) during military surface fin swimming in a swimming flume: effects of surface immension Evaluating sleep patterns and perceptions of sleep quality between British Army basic training programmes Futures Science and Technology Energy expenditure during operational circumstances: an approach using and improving available monitoring systems recently trialled in units of the Dutch Armed Forces Using a novel multi-array facial electromycraphy for stigue evaluation during an anaerobic exercise test A missed-seality environment fo	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 47 Board 41 Board 42 Board 43 Board 43 Board 44 Board 44 Board 41 Board 42 Board 43 Board 44
16:30 to 17:00	The effect of marching speed on approximated centre of mass vertical movement during treadmill marching Temporal effect of backpacking on isokinetic variables in the knoe joint after a 12 km nimulated military road march a pilot study Assessment on some play composition, performance, and military occupational demands: A new categorisation tool for physical fluences (CT-PP) efficient and valid assessment of physical performance in personnel recruitment and military medical assessments. Reposted prolonged bounds of load corrises impact wolking stability of soldiums Effects of head borne backs on helment stability during a simulated sactical chooting tack. The effect of muscle activity on shooting accuracy Toning and education on fetting and adjusting body amorus implications for body armour fit Accuracy of mission specific military variant wearable ECG monitor compared to existing clinical and commercial monitors. U.S. Army Medical Research and Development Command Military Operational Medicines Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a trinitiar substransment compound Evaluation of the physical demands of logistic andicient in the Swedish Armed Forces Using heart sate within a segual to predict squad achieston Cyoyen uptake (VO2) and pulmonary ventilation (VE) during military surface fin eviniming in a swimming fluence effects of aurlace immension Evaluating sleep patterns and perceptions of alseq quality between British Army basic training programmes: Putures Science and Technology Energy expenditure during operational circumstances are approach using and impropring prolifer functioning creation in units of the Dutsh Armed Proces Using a nevel multi-array facial electromyogrouphy for faitigue evaluation during an anaerobic exercise test A mixed reality environment for the assessment of situational avariances of the dismounted audier Ensempting methods for quantifying human septem performance with automatic small amms platforms	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 43 Board 44 Main 1 2 3 Main
16:30 to 17:00	The effect of manching speed on approximated centre-of-mans vertical movement during treadmill manching Temporal effect of backpacking on isolatinate variables in the knee joint after a 12 km simulated military mad march a pilot study Associations among body composition, performance, and military occupational demands A new cotoporisotion tool for physical fitness (CT PF) efficient and valid assessment of physical performance in personnel excutations. Repeated polonged bounds of lead carringing inputs validing shalling of soldiers. Effects of head borns loads on helmest stability during a simulated actical schooling task The effect of muscle activity on shoulding accuracy Thaining and education on fitting and adjusting body amours: implications for body amour fit Accuracy of insistion repeated in military variant was able ECG monitor compared to existing clinical and commercial monitors U.S. Army Medical Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysical changes observed during military tasks in a training substrances. Evaluation of the physical demands of logistic soldiers in the Swedish Armed Forces Using heart rate within a squad to predict squad cobesion. Oxygen uptake (VO2) and pulmonary ventilation (VP) during military audice for availance in a evidenting substrances. Evaluation select patterns and peer-epitons of sleep quality between British Army basic training programmes Putures Science and Technology Energy expendituse during operational circumstrates are approach using and improving available monitoring systems secently tabled in units of the Durch Armed Forces Using a novel multi-array fined selectory group for folloging evaluation during an annearchic convictive text A mixed-reality environment for the socioement of situational awareness of the dismounted soldier Energy gram methods for quantifying human-system performance with automatic small arms platforms The development of a flight exercing behavior to a cha	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 42 3 Main Main 1 2 3 Main
16:30 to 17:00	The effect of manching speed an approximated centre-of-mass vertical movement during treadmill marching Temporal effect of ackpacition on isolatests variables in the knee joint after a 12 lbm simulated military road march, a pilot atudy Aanocations among body composition, performance, and military conquainted demands A new cotegorisation tool for physical finess (CT-PP) efficient and valid assessment of physical performance in personnel environment and military medical assessments Repeated prolongib bounds of load corriseg impact valleng stability of soldiers Effects of head borne loads on helmest stability during a simulated actical shooting task The effect of muscle activity on absorting accuracy Training and education on fitting and advanting body amour; implications for body amour fit Accuracy of mission specific military variant wanable ECG monitor compared to existing clinical and commercial monitors U.S. Army Medicial Research and Development Command Military Operational Medicine Science and Technology Research Program overview Psychophysiological changes observed during military tasks in a batuming subternance compand Evaluation of the physical demands of logistic solidiers in the Swedish Armed Forces Using heart rate within a sequal to predict again observed. Ozyges uptake (VO2) and pulmonary evaluation (VP) during military studies in the Swedish Armed Forces Using bear rate within a sequal to predict again observed military studies in the Swedish Armed Forces Using a patterns and perceptions of alses quality between British Army basic training programmen Futures Science and Technology Browny expenditure during operational circumstances, an approach using and improving available monitoring systems recently tabled in mints of the Dutch Armed Forces Using a novel multi-array facial electromagney for faightee evaluation during an anoarrabic exercise test A mined reality environment for the assessment of situational awareness of the dimmonarde soldier Emerging methods for quantifying human system per	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 35 Board 36 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 47 Board 41 Board 42 Board 43 Board 44 Main 1 2 3 Main Main Main Main Main Main Main Main 1 1 1 1 1 1 1 1 1 1
16:30 to 17:00	The effect of marching speed on approximated centre-of-mass vertical movement during treadmail marching Tomporal effect of backgocking on isolatenic variables in the knew joint sider a 12 km simulated military mad wasch, a pilot study Association among body composition, performance, on military occupional demands A new categorisation tool for physical factors. (CTFF): effects and wild associations of physical performance in personnel secretives and military redeals associations associated association and secretives and secretives and secretives and secretives. Effects of head borne loads on helitose stability during a cimulated factical abording task. The effect of based borne loads on the loss of the property of the prope	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Jennifer Schlie Joo-Young Lee Jose Villa	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 35 Board 36 Board 37 Baord 38 Board 39 Board 40 Board 47 Board 41 Board 42 Board 43 Board 44 Main 1 2 3 Main Main Main Main Main Main Main 1 1 2 2 2 2 2 2
16:30 to 17:00	The effect of warthing speed on approximated centre of mass ventical movement sturing broadmill marching Temporal effect of backpacking on isochecite variables in the large and military computational demands A associations among body composition, performance, on military computational demands A association tool for physical filters (CLFF): efficient and valid assessment of physical performance in presonnel securitation and military areas associated and military areas (assessments) Represed protorogate books of load carrange impositivations adulting reactions. Effects of beed bornel loads on believes stability during a simulated textical shooting task The effect of muscle scribity on absorbing accuracy. Totalising and education on fitting and adjusting body armoust implications for body armount fit Accuracy of mission specific military restore twenoble ECG monitor companed to existing critical and commercial monitors. U.S. Army Medical Rescend and Development Command Military Operational Medicine Science and Technology Rescence Program overview. Psychophysiological changes checaved during military tasks in a training subbramana companed. Dealustion of the physical education of long the subtracts in the Sweldth Arma Discess Using hastr texts within a repeal to prodict requise exhance. Organ uptake (VO2) and pulmonary ventilation VISI during military surface this avointming is a witning filture: effects of surface immension. Dealusing askep patterns and perceptioner of sleep quelly brevene Thritish Army bacts training programmes. Patterns Science and Technology. Entery expenditure during operational circumstances an approach isotopy and improving available monitoring systems recently. Using a novel multi-array facial electromycopaphy for fatigue evaluation during an amentoble consiste recently. Province and multi-array facial electromycopaphy for fatigue evaluation during an amentoble consiste recently. Province and military evaluations are approached to suppose the fatigue evaluation during an amento	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Jennifer Schlie Joo-Young Lee Jose Villa Andy Siddall	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 45 Board 45 Board 47 Baord 38 Baord 39 Board 40 Board 47 Board 41 Board 42 Board 43 Board 44 Main 1 2 3 Main Main Main Main Main Main 1 1 2 2 3 3 Main Main
16:30 to 17:00	The effect of marching speed on approximated centre of mass vertical movement during treadmill marching [Perspocal effect of backpacking on isolateic variables in the knee joint after a 12 km structured military conditional demands A new categorisation tool for physical fates (CTEP), efficient and wall assessment of physical performance in personnel recruitment and military model assessments Repeated proforaged boats of load carriage impact walking stability of sabilism Effects of head borns loads on helitonist stability during a simulated section throcting task The effect of muscle activity on motion accuracy Training and education on fitting and adjusting loady amount implications for body amount for Accuracy of ministry implication specific military variant wearable ECG another compared to violating citized and commercial monitors U.S. Army Melicul becards and Development Command Military Operational Military Quantum Withdrichne Stories and Perchandings Pressure Program overview Psychophysiological changes abserved during military strategies to reflect spand determined. Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiol demands of logistic nolities in the Swedish Armed Surreal Fortunation of the psychiologic nolities in the Swedish Armed Surreal Fortunation of the psychiologic nolities in the Swedish Armed Surreal Fortunation of the psychiologic nolities in the Swedish Armed Surreal Fortunation of the psychiologic noliti	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Jennifer Schlie Joo-Young Lee Jose Villa	Board 21 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Board 49 Board 40 Board 40 Board 47 Board 41 Board 42 Board 43 Board 40 Board 41 1 1 2 3 Main Main Main Main Main Main Main Main 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2
16:30 to 17:00	The effect of manchina speed on approximated carde-of-mans vertical movement during beachtall manching Temporal effect of bedgedening on individual variables in the large both after a 12 km annihilated military used march a plot study Associations among body consumbling, proformance, and auditary secondated demands A new collectivisation tool for physical filteres (CHFF) efficient and valid assessments of physical performance in personnel Repeated prolonged boats of load corrage impact valleng studying of addition The effect of muscle activity on shooting accuracy Training and education on filting and all unities body armour implications for body armour if Accuser of mation speed multipary valued vessable. ECO sounter congrued see settled publicad and commercial monitors U.S. Army Medical Research and Development Command Military. Operational Medicine Science and Technology Research Program overview Psychophysiological charges charred during a silkery tacks in a starting subtransacy acceptant. Evaluation in the physical demands of logical coolines in the Severish America Textus. U.S. Army Medical Research and Development Command Military. Operational Medicine Science and Technology Research Program overview Psychophysiological charges charred during a silkery tacks in a starting subtransacy acceptant. Evaluation (Exp physical demands of logical coolines in the Severish America Textus. U.S. Army Medical Research and perceptions of silkery quality between British Army basic training programmes. U.S. Production of the physical demands of logical coolines in the Severish America Textus. Evaluation (EXP) and pulmorary ventation in various part of behaviors in the several programmes. Psychophysical good of pulmorary ventations in value of the Durin Amed Review Using a novel multi army facility and circustations of the Durin Amed Review Using a novel multi army facility acceptancy of the several pulmorary developed to developed to the distribution of the Burch Armed Review Using a novel multi army facility a	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Jennifer Schlie Joo-Young Lee Jose Villa Andy Siddall Koen Hogenelst Greg L Carstairs Courtney Haynes Courtney Haynes	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 36 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 42 Board 43 Board 44 Main 1 2 3 Main Main Main Main 1 1 2 2 3 3 Main Main 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
16:30 to 17:00	The effect of matching speed on approximated centre-of-mass vertical processes of turns presidently matching. Temporal effect of backpooking on solutionite variables in the large joint alors at 2 km intuitionit military coordinates at solution. A new categorisation tool for physical diffuses (C1PF) efficient and valid assessment of physical preformance in personnel contribution and military merical assessments. Repeated avoluted books of load extractor inspect workshop stability of volutes. Differs to blood bornel tools are though and support and present and the p	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Jennifer Schlie Joo-Young Lee Jose Villa Andy Siddall Koen Hogenelst Greg L Carstairs Courtney Haynes Cheryl Lim	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 34 Board 35 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 42 Board 43 Board 44 Main Main Main Main Main Main Main Main 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3
16:30 to 17:00 17:00 to 18:00	The effect of matching soved on approximated centre-of-mass vertical movement during treatedal matching. Tampons of their of bedroposing on inclinative carabbos in the lines goint stare a Like in minutative compliant of demands. A new categorisation tool for physical fines (CT FT), efficient and valid consument of physical performance in prenomed recruitment and call admission preclaimance. An analysis of policient of the physical fines (CT FT), efficient and valid consument of physical performance in prenomed recruitment and call admission activities of the physical forms of the control of the physical forms (CT FT), efficient and valid quasisments of physical performance in prenomed recruitment and call and the physical performance in prenomed recruitment and the physical performance in prenomed recruitment and the physical control of the physical demands (CT FT) and the physical control of the physical demands of bodies control on the physical performance of the physical demands of locative coolines in the President Annual Prenomen of Evolution (CT FT) and the physical demands of locative coolines in the President Annual Prenomen of Evolution (CT FT) and physical performance of a locative coolines in the President Annual Prenomen of Evolution (CT FT) and physical performance of a locative coolines in the President Annual Prenomen Organic President (CT FT) and physical performance of a locative coolines in the President Annual Prenomen Organic President (CT FT) and physical performance of a locative coolines in the President Annual President (CT FT) and physical performance of a locative coolines in the president of a locative cooline in a special performance with a controlled results of president performance with a controlled results of president performance with a controlled results of president performance with a controlled results of the cooline of the coo	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Jennifer Schlie Joo-Young Lee Jose Villa Andy Siddall Koen Hogenelst Greg L Carstairs Courtney Haynes Courtney Haynes	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 36 Board 36 Board 37 Baord 38 Baord 39 Board 40 Board 40 Board 41 Board 42 Board 42 Board 43 Board 44 Main 1 2 3 Main Main Main Main 1 1 2 2 3 3 Main Main 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3
16:30 to 17:00 17:00 to 18:00	The affice of nachquartens or isolations working in the tree point after a 12 km minulated military root march is pilot study. Associations used body compactions, performance, and utilitary occupational demands: A new calconization too be physicial distance (CPPP) editional and valid associations understanded. A new calconization too be physicial profit of the tree profit of security and the pilot of t	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Koen Hogenelst Greg L Carstairs Courtney Haynes Cheryl Lim Jace Drain	Board 21 Board 22 Board 23 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 37 Baord 38 Board 40 Board 40 Board 41 Board 42 Board 47 Board 41 1 1 2 3 Main Main Main Main Main Main Main 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3
16:30 to 17:00 17:00 to 18:00	Temporal affect of matching apoid or approximated contract of mass serial incomments during producilla maching. Temporal affect of helpsychering on solutions cannot publy compensions, partnermance, and maintainer acceptance discussed. A new cotegorisation tool for physical finess (CFF): efficient and solid assessments of physical performance in personnel executions during an admittant producing maintainer acceptance. Bioporated prolonged boots of had carrange impact varilling stability of solidities. Diffect of haude borne loads on helpsycheric ability during a parallular stability during a seminated attention that sharing stability. The effect of market acceptance of the parallular stability during a seminated attention floating stability. Takindra and elevations on the stability during a seminated attention for both statement of the Accusary of maintain specific affects of the stability during a seminated attention of the physical disease. The contract of the physical disease of the stability of the sta	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Jennifer Schlie Joo-Young Lee Jose Villa Andy Siddall Koen Hogenelst Grey L Carstairs Courtney Haynes Cheryl Lim Jace Drain Tommi Ojanen	Board 21 Board 22 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 34 Board 35 Board 36 Board 45 Board 45 Board 47 Board 40 Board 47 Board 41 Board 42 Board 43 Board 47 Board 40 Board 47 1 1 2 3 Main Main Main Main Main Main 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3
16:30 to 17:00 17:00 to 18:00	Transported electric ob executability processed on approximated control of many and that on a 22 sizes actualistic milliary recent anabeth a public study. Associations among body compositions, portformance, and military recent anabeth a public study. A new categorisation tool for physical fistone (CF PF); efficient and called accumance of physical provided processes. Repeated prolonged bown of lead carriage impart wolling readility of actions. Cliften the load post rocides on believe anability of many assimilation desiration tools. The effort of muscle activity on shorting parameter. Trainistical and two-lead on believes and desiration of shorting parameter. Trainistical and two-lead on believes and desirated professional carteral shorting to military under the activity on shorting parameter. Accessery of mission specific military multant aversable ECC trainistic companies to exciting clinical and commercial monitors. U.S. Amy Modesal Resounds and Development Chemistral Military Operations (Redistrict) Science and Eccanology Resounds Program overview. Psychophylophylopidal probaga the special study of military such as discussed and Eccanology Resounds Program overview. Psychophylophylopidal probaga the special study of special study of chemistral program parameters. Corgan upralle (YOC) and parlamony venetiation of Select paulity between Rittle Asia; basic discissing programment and pensylotron of the optical paulity between Rittle Asia; basic discissing programment and pensylotron of Select paulity between Rittle Asia; basic discissing programment and pensylotron of Select paulity between Rittle Asia; basic discissing programment and pensylotron of Select paulity between Rittle Asia; basic discission programment and pensylotron of Select paulity between Rittle Asia; basic discission programment and pensylotron programments and activities and processes described and processes and programment and pensylotron programments and activities and processes and programments and pensylotron programments and a	Jonathan Wheat Fabio Alves Machado Runer A Marson Ulrich Rohde Aaron Likens Brian Higginson Jemma Coleman Celeste Coltman Bryndan Lindsey Malena Rone Mickey Scheinowitz Lena Norrbrand Victoria G Bode Olivier Castagna Alex J Rawcliffe Marc Duineveld Itay Ketko Ivo Stuldreher Frank Morelli Kaj Gijsbertse Ayden McCarthy Yvonne Fonken Minke Geerts Courtney Haynes Trevor Dobbins Joanne L Fallowfield Neil Mansfield Tim Doyle Thomas Karakolis Andrew Roberts Phil Newman Wayne Spratford Michael Vignos Andy Siddall Victoria G Bode Adam Dooley Julie Coulthard Koen Hogenelst Greg L Carstairs Courtney Haynes Cheryl Lim Jace Drain Tommi Ojanen Karl Friedl	Board 21 Board 22 Board 23 Board 26 Board 27 Board 28 Board 29 Board 30 Board 31 Board 32 Board 33 Board 36 Board 36 Board 37 Baord 38 Board 40 Board 40 Board 40 Board 41 Board 42 Board 43 Board 47 Board 41 1 1 2 3 Main Main Main Main Main Main Main Main

 $Impact\ of\ a\ 24-h\ exposure\ to\ hot\ and\ cold\ environments\ on\ appetite,\ food\ preferences,\ and\ energy\ intake$

Keyne Charlot





WEDNESDAY (13/09/2023)

WEDNESDAY Time	(13/09/2023) Title	Presenter or Chair	Room
08:45 to 09:30	Keynote 3	Prof Andy Jones	Main
09:45 to 11:15	Thematic Sessions 12 to 15	Careh Vanne	Main
	Thematic 12: Human augmentation to deliver an enhanced and resilient people capability for defence Thematic 13: Spinal related injury in fast jet aircrew: identifying and supressing the threat to operational capability	Sarah Kemp James Wallace	Main 1
	Thematic 14: Modernising the human information data ecosystem to facilitate soldier performance optimisation	Andrew G Thompson	2
	Thematic 15: Soldier performance management: insights from boots on ground research	Luana Main	3
11:15 to 11:45 11:45 to 13:15	Coffee Break Oral Communication 10: Female Health and Physiology; Chair: Dr Kristen Koltun		Main
	Menstrual function, eating disorders, low energy availability, and physical performance in Army servicewomen	Charlotte V Coombs	Main
	Severity of menstrual cycle symptoms among UK servicewomen when performing work-based tasks	Phoebe Thomas	Main
	Characteristics associated with pelvic floor disorders among female Canadian Armed Forces members Evaluating the sports bra fitting and issue service within British Army basic training	Jessica L Puranda Jenny Burbage	Main Main
	A job task analysis to identify basic training activities that place the highest demands on the breasts of female recruits	Gemma Milligan	Main
	A comparison of issued sports bras and determination of sports bra characteristics required to undertake British Army basic training	Emily Paines	Main
	Oral Communication 11: Data Analytics and Predictive Modelling; Chair: Dr Andy Siddall Prospective validation of 2B-Cool: integrating wearables and individualized predictive analytics to reduce heat injuries	Jaques Reifman	1
	The utilization of wearables to develop methods and metrics for assessing collective small unit lethality and in-field performance	Meghan O'Donovan	1
	Monitoring training load in military settings using wearable devices: can we predict musculoskeletal injuries?	Einat Kodesh	1
	Physical fatigue state classification through fusion of physiological and biomechanical metrics	Michael Vignos	1
	Consideration of individual factors when predicting target engagement decision making performance of expert shooters Novel target engagement metric for holistic quantification of marksmanship performance	Maria Talarico Maria Talarico	2
	Oral Communication 12: Cognitive Performance; Chair: Dr Nicky Armstrong	Walla falarico	2
	The impact of winter warfare training on physiological stability and stress reactivity	Karen R Kelly	2
	Training to perform or learning to train? Factors associated with performance in close quarter urban operations training may have limited transfer to real world performance	Daniel Cooper	2
	Implementation and validation of the Acute Readiness Monitoring Scale (ARMS) in the Australian Army	Joshua M Adie	2
	Predicting alertness of military performance during cold winter training using the 2B-Alert web tool	Agustin Leandro Folgueira	2
	Sleep deprivation and physical fatigue: impact of cognitive load and motor performance within United States military members Metabolomic profiling of acute stress events associated with 72-h military field exercises	Joshua Springer Elizabeth Dhummakupt	3
	Oral Communication 13: Physical Training; Chair: Professor Heikki Kyröläinen		3
	Physical training and changes in physical performance and body composition of soldiers during international military operations: systematic review and meta-analysis	Kai Pihlainen	3
	The physical demands of British Army Infantry basic training: An observational study	Alex J Rawcliffe	3
	Body composition and performance adaptations of British Army Infantry basic training: An observational study Monitoring the personnel responses to military training: a synthesis of research findings	Andrew Roberts Luana Main	3
	A comparison of performance on role-related fitness tests between British Army recruits and in-service soldiers	Carla Rue	3
	Physical employment standards next steps: informing the development of a concept for a role-related fitness continuum	Sam Blacker	3
11:45 to 13:15	Posters 2 Myagyalagkalatal Injury and Physiology		Posters
	Musculoskeletal Injury and Physiology Bone formation and resorption biomarkers are not associated with stress fracture risk during U.S. Army Basic Combat Training	Jeffery S Staab	Board 1
	Qualitative exploration of US Reserve Officers' Training Corps trainees' reasons for injury concealment	Joshua Wooldridge	Board 2
	Effect of Army Combat Fitness Test training on low back pain in US Army basic combat trainees	David Zeppetelli	Board 3
	Identifying risk factors is imperative in reducing the costly burden on neck pain in fast jet aircrew: preliminary analyses of a two-year prospective study	James Wallace	Board 4
	Biopsychosocial factors associated with musculoskeletal injury in Marine Corps Officers differ between males and females	Sarah J de la Motte	Board 5
	Screening to predict risk of injury in tactical athletes (SPRINT): a scoping review U.S. Army Reserve Command Holistic Health and Fitness Pilot evaluation	David M Boland Anna Renner	Board 7
	Differences in injuries during road marching among male and female U.S. Army soldiers	Anna Renner	Board 8
	Effects of different load carriage systems on LEAP performance, mobility, and perceived comfort in male and female police officers	Ester Hesen	Board 9
	Association between self-reported injury history, physical complaints, and medical attention injury during Army basic military training	Neil Gibson	Board 1
	Hamstrings work demands during heavy load carriage are related to walking slope A wearable sensor system for in-flight measurement of neck loads in fast jet aircrew: key observations from typical air combat manoeuvres	Anne Silverman Phil Newman	Board 1
	Can the Y-Balance test be used as a predictor of injury occurrence during military training?	Alisa Hui Na Lau	Board 1
	Implementation of Rehabilitation Exercise (PX) in the Singapore Army	Denise Seow	Board 1
	The effect of external load on approximated centre-of-mass vertical movement during treadmill marching	Kane Middleton	Board 1
	Assessing biomechanical and physiologic response to training in female warfighters using virtual avatars Inclusion of rehabilitation as part of the management of the injured soldier	Adam M Hott Cyrille Crochet	Board 1
	Conception of a guided rehabilitation form after an lateral ankle sprain for the French Armed Forces with a delphi method	Alexandra Malgoyre	Board 18
	Are parity status or injury history related to knee kinematics in a bodyweight overhead squat to assessment in military servicewomen?	Chris M Edwards	Board 19
	The validity of Loadsol® pressure insoles during treadmill load carriage across different speeds, external loads, and footwear	Corey Perrett	Board 2
	Simulation-Informed Machine Learning Model for Predicting Musculoskeletal Kinetics of 'Shoot on the Move' Comparison of strikes and front kick from an inverse dynamic's perspective and their protective benefit from a view of possible	Connor Pyles Michal Vagner	Board 22
	damage to the striking surface of the hand at the military personnel Health and Wellbeing	iviiciiai vagiiei	Dodiu 2.
	Self-reported gastrointestinal symptoms and diarrhoea in Special Operations Forces personnel deployed to Afghanistan	William R Conkright	Board 24
	Heart rate variability profile of a specialist police selection assessor	Colin Tomes	Board 2
	eHealth platform with integrated wearable biosensor facilitates scaling of targeted military fitness intervention	Alexander Nicholls	Board 2
	The challenge of excess body fat in military personnel: prevalence and comparison between men and women The AVU-IGF: Ensuring medical and operational readiness by means of a regular and comprehensive health assessment	Thabata Chaves Pereira Lima Alexander Sievert	Board 2
	Metabolic and inflammatory features of physically active and low-active military police officers	Diego Ribeiro de Souza	Board 2
	High versus low self-perceived occupational demand profiles among employees of the Dutch Gendarmerie Corps	Pablo Stegerhoek	Board 3
	Epidemiology Challenges in advanged feedborne disease outbreak surveillance systems; identifying and handling algorithmic		
	Challenges in advanced foodborne disease outbreak surveillance systems: identifying and handling algorithmic bias using the national outbreak reporting system, 2009-2019	Emily Diemer	Board 3
	U.S. Defense Safety Oversight Council (DSOC) Military Injuries Working Group (MIWG): a collaboration to reduce military injuries	Michelle Canham-Chervak	Board 3
	Burden and risk factors for plantar fasciopathy in the military population from 2006 to 2015: a retrospective cohort study Environmental Stressors, Exposures, and Injuries	Jennifer Xu	Board 3
	Physiological markers of heat stroke during loaded ruck marches	Emma Atkinson	Board 3
	Influence of hand temperature on core temperature afterdrop following cold-water immersion in operational settings	Douglas M Jones	Board 3
	Evaluation of thermal and pain sensations to predict frostbite risk during localised cold stress and recovery	Rebecca Weller	Board 3
	Effect of single versus twice daily heat acclimatisation on 5 km running performance in tropical native soldiers Neurobiomarker responses to thermal stress with physical activity: prior endurance exercise may confound mTBI diagnosis using UCHL1	Edwin Chong Mike Stacey	Board 3
	Assessing the predictive value of body surface area to mass ratio for heat intolerance in military personnel: a retrospective cohort study	Inbal Akavian	Board 3
	Impact of 12 km military march on skin temperature using infrared thermography	Danielli Mello	Board 4
	Thermoregulatory model validation of physical readiness training guidance to prevent cold-weather injuries	John W Castellani	Board 4
	Cognitive assessment during heat tolerance test (HTT) of combat soldiers post exertional heat injury Is there an anthropometric bias in the heat tolerance test? Exploring heat intolerance further with a human conceptual heat balance approach	Itay Ketko Philémon Marcel-Millet	Board 4
	Impact of acute and habitual caffeine consumption on local tolerance to cold after total sleep deprivation	Fabien Sauvet	Board 4
	Managing heat stress: from science to practical implementation	Karl Jochen Glitz	Board 4
	Individual vulnerability to hypoxia: impact of an HMOX2 single nucleotide polymorphism on chemosensitivity in Caucasians History of freezing cold injury is associated with persistent degrees in local response to cold; a gase central study.	Pierre Fabries	Board 4
	History of freezing cold injury is associated with persistent decrease in local response to cold: a case control study Influence of skin temperature responses to cold water immersion as a predictor for cold shock response magnitude	Melchior Arnal Rebecca McClintock	Board 4 Board 4
	A comparison between a HR-based temperature algorithm and gastrointestinal temperature in military personnel during heat acclimation.	Sam Ballak	Board 5
	Thermal manikin tests of the multilayer thermal insulation of combat winter clothing	Solène Champigny	Board 5
	Effect of a lightweight packable insulation blanket on body core and skin temperatures during passive exposure to –30°C: a pilot study Using axillary skin temperature to monitor core temperature in military scenarios: an exploratory investigation	Lennart Teunissen Minhee Lee	Board 5
13:15 to 14:00	Using axillary skin temperature to monitor core temperature in military scenarios: an exploratory investigation Lunch	while nee	Doard 5
14:00 to 16:00	DSEI		
16:00 to 17:30	The at 10 Plant had been selected as 16 to 19		
	Thematic 16: Physiological consequences of arduous military energy deficits and the anabolic role of protein nutrition Thematic 17: Survive and thrive in the cold	Jess Gwin Karl Friedl; Hilde K Teien	Main 1
	Thematic 17: Survive and thrive in the cold Thematic 18: Collaborative research on resilience across The Technical Cooperation Program member nations	Jennifer EC Lee	2
	Thematic 19: Human performance optimisation for the warfighter: keeping it simple in a complex age	Jonpaul Nevin	3
17:30 to 18:00	Coffee Break		
18:00 to 19:30	Thematic Sessions 20 to 23	Heikki Kyröläinen;	
	Thematic 20: Considerations in programming physical training in a military environment Thematic 21: Reducing muggulogkeletal injuries in the military: a gengengus approach to tackling a shared wicked problem.	Bradley C Nindl	Main
	Thematic 21: Reducing musculoskeletal injuries in the military: a consensus approach to tackling a shared wicked problem Thematic 22: Exertional heat illness prevention: considerations for planning and real-time monitoring	Joanne L Fallowfield Mark Buller	2
	Thematic 23: Fatigue and management of warfighter mental endurance	Karl E Friedl	3



THIRCHAY (1/1/00/2022

THURSDAY (1			
Time 08:30 to 10:00	Title Oral Communication 14: Musculoskeletal Injury and Physiology; Chair: Dr Tim Doyle	Presenter or Chair	Room Main
	Lumbar spine injury risk during heavy load carriage when walking on slopes Effects of stature and load carriage on the running biomechanics of healthy men	Anne Silverman Jaques Reifman	Main Main
	Effects of stature and stride length on the running biomechanics of healthy women	Jaques Reifman	Main
	Speed and load, but not grade, reduce shock attenuation during a simulated ruck The effect of speed and load on non-linear measures of stride time	AuraLea Carylon Fain Patrick Slattery	Main Main
	The effect of biological sex and external load on lower extremity coupling variability of military personnel Oral Communication 15: Psychological Resilience and Performance; Chair: Dr Karl Friedl	Brooke Hoolihan	Main 1
	A six-week brain endurance training (BET) program improves endurance and cognitive performance, and enhances resilience to fatigue in elite athletes	Walter Staiano	1
	Using accelerometry and heart rate data for non-metabolic stress modelling and real-time monitoring of soldiers' stress in dynamic military virtual reality scenario's	Olaf Binsch	1
	Sleep and work demands contribute to daytime impairment and depressive symptoms in a shipboard environment The relationship of psychological inflexibility and the experience of pain in active-duty US Army soldiers	Alice LaGoy Jason Lee Judkins	1
	Sex differences in mood states and cortisol response to hand-to-hand combat training in U.S. Military Academy Cadets Oral Communication 16: Environmental Stressors, Exposures, and Injuries; Chair: Dr Hilde Teien	Meaghan E Beckner	1 2
	British military personnel with non-freezing cold injury have increased pain and reduced quality of life due to delayed and unsuitable rehabilitation	Lynn Kelly	2
	Potential impact of a ventilated vest on perception, physiology, and cognition of Soldiers in controlled and uncontrolled warm environments Physiological and subjective responses during work in encapsulated suits under day and night conditions in the tropics	Milene Catoire Wee Hon Ang	2
	Heat stress in armoured vehicles: challenges and solutions	Maria Richter	2
	Susceptibility to acute mountain sickness negatively impacts sleep and nocturnal oxygenation at 3600 m but active ascent does not result in greater decrements Oral Communication 17: Physical Performance; Chair: Dr Charlotte Coombs	Steven Landspurg	3
	The Pandolf load carriage equation systematically underpredicts the metabolic cost of load carriage in males and females	Jace Drain	3
	Physiological responses across a 2-hour loaded march in male soldiers The physiological and biomechanical effects of weapon handling during load carriage	Ben Dascombe Danielle M Vickery-Howe	3
	Cardiorespiratory responses to torso-borne loaded marching in British Army Infantry soldiers & physically active civilians	Josh Osofa	3
	Respiratory muscle strength in British Army Infantry recruits The impact of torso-borne load-carriage on operating lung volumes and breathing patterns during marching in British Army Infantry soldiers and physically active civilians	Nicola Armstrong Mitch Lomax	3
10:00 to 10:15	Coffee Break		
10:15 to 11:45	Thematic Sessions 24 to 27 Thematic 24: Epidemiology of musculoskeletal injuries in female military personnel: descriptive data and risk factors	Mita Lovalekar	Main
	Thematic 25: Internal dialogue: deciphering the role of the gut microbiome in health and performance Thematic 26: Exertional heat illness and recovery or return to duty: international lessons learned and best practices for the future	Sarah Harding Yoram Epstein; Jason Lee	1 2
	Thematic 27: Evidenced-based interventions to decrease overuse musculoskeletal injury prevalence in military training	Tara Reilly	3
11:45 to 12:15 12:15 to 13:45	Lunch Oral Communication 18: Musculoskeletal Injury and Physiology; Chair: Dr Tom O'Leary		Main
	Areal bone mineral density changes in soldiers attending U.S. Army Ranger training	William R Conkright	Main
	Acute and chronic high load intensity resistance exercise is associated with changes in bone-related biomarkers Lower baseline trunk areal bone mineral density, not cortical parameters, predicts greatest density changes at the axial skeleton in recreationally active men and women following 12 weeks of concurrent resistance training	Kristen J Koltun Nicole Sekel	Main Main
	Sleep characteristics associated with musculoskeletal injuries in female Canadian Armed Forces members	Jessica L Puranda	Main
	Externally validated machine learning algorithm accurately predicts medial tibial stress syndrome in military trainees: a multi-cohort study Predictors of musculoskeletal injury during U.S. Army Basic Combat Training	Phil Newman Stephen Foulis	Main Main
	Oral Communication 19: Health and Wellbeing; Chair: Dr Tara Reilly		1
	Effects of an operational physical training program applied during service on the body composition and oxidative stress of military policemen Self-reported intentions to seek medical attention for musculoskeletal injuries, concussions, and exertion-related injuries during military training	Fernanda Monma Alex Gregory	1
	The association of barriers with care-seeking for musculoskeletal injuries in Canadian military personnel using scenario-based questionnaires Sleep in British Army basic training: an observational analysis	Jennifer Born Alex J Rawcliffe	1
	Sex differences in sleep across a large cohort of military personnel	Bradley M Ritland	1
	The relationship between sleep quality and poor health symptoms in US Navy sailors Oral Communication 20: Physical Performance; Chair: Dr Jace Drain	John Casachahua	2
	A 20 h military field training decreases the soldier's ability to perform casualty emergency evacuation Changes in physical training, physical performance, and injury after implementation of an age and gender-neutral military fitness test	Jussi Mussalo Tyson Grier	2
	Establishment of reference body composition values for healthy fit military men and women: new and improved physical readiness metrics	Karl Friedl	2
	Are front length and chest breadth effective predictors of ergonomic fit of body armour systems? Predictive value of modifiable and nonmodifiable characteristics on passing a military-based physical employment standard assessment in	Celeste Coltman Evan Feigel	2
	physically-active men and women Fitness assessment tests predict operational performance on standardised LEAP obstacle course	Lotte Linssen	2
	Oral Communication 21: Epidemiology; Chair: Dr Henriette Hasselstrom Prevalence of exertional heat illness risk factors in a healthy military population	Kyla Driver	3
	Applications of the Taxonomy of Injuries injury definition and standardised medical encounter reporting	Anna Renner	3
	The prevalence of Medial Tibial Stress Syndrome in the British Armed Forces: a secondary data analysis based on data from the Armed Forces medical electronic notes system	Emma Farquharson	3
	Risks associated with injury in soldiers following knee surgeries at on-post versus off-post surgical facilities The effect of aerobic activity and combat exposure on new-onset mental health diagnoses after deployment to a combat zone	Benjamin Adams Diane Williams	3
12:15 to 13:45	Half a decade of heat injuries in the Israel Defense Forces (IDF) – lessons learned and future directions Posters 3	Inbal Akavian	3 Posters
	Physical Training		1 05035
	The concept of military endurance training in the Danish Defence The influence of a field-based training on anthropometric measures among Brazilian cadets	Jesper Gronemann Wendell Willian C Botta	Board 1 Board 2
	Heart rate variability assessment of land navigation and load carriage in specialist police selection training Motivation for physical training among Danish military personnel: a cross sectional survey	Colin Tomes Frank Thøgersen	Board 3
	The effects of survival-run training on creativity and physical adaptivity	Kaj Gijsbertse	Board 5
	Designing human performance tools for US Army Holistic Health and Fitness technology enablement The development of quantitative performance metrics for squads entering and clearing a room (Battle Drill 6)	Teo Balbach Meghan O'Donovan	Board 6 Board 7
	Outcomes following musculoskeletal injury during Army basic training Nutrition and Metabolism	Andrew Roberts	Board 8
	The Future Defence Deployed Nutrition Programme: a pilot study to assess the utility of a new self-sustaining rapid insertion ration during a 7-day military field exercise	Daniel Rowland	Board 9
	The influence of pre-sleep protein supplementation on recovery from load carriage in British Army recruits	Shaun Chapman	Board 10
	Associations of baseline vitamin D level with acute respiratory infections, inflammation markers, and cathelicidin through 14-week follow up in conscripts	Akseli Laaksi	Board 11
	Caloric expenditure of special forces operators during multi-day winter warfare training Comparison of weighed-food and food diary methods for measuring energy and macronutrient intake during arduous military training	Andrea Givens Sally R Handford	Board 12 Board 14
	Macronutrient recommendations for basic military training to mitigate musculoskeletal injury incidence: a narrative review Effectiveness of food supplements among soldiers during an outfield military exercise	Nick Dontje Rachel Leah Yeow	Board 15 Board 16
	Lipid profile improved in young soldiers during energy-restricted military training	Tarja Nykänen	Board 17
	Longitudinal evolution of body composition and energy expenditure during a basic course for Special Operations Regiment (SOR BC) The impact of Holistic Health and Fitness (H2F) on the nutritional readiness of U.S. Army soldiers: results from the 2023 Soldier Readiness Survey	Annelore Gemmeke Brenda D Bustillos	Board 18 Board 19
	Trial Design, Methods, Conduct, and Reporting Repeatability and reproducibility of a standard test method for measuring head-supported mass properties	Marina Carboni	Board 20
	Rapid Assessment of changes in jump performance following a 36-hour field exercise using a semi-automated force-plate system	Patrick W Bray	Board 21
	Effects of body size on range of motion measurements in product testing The benefits and practicality of utilising a baseline data collection period in research at military training establishments	Hyegjoo E Choi-Rokas Faye Walker	Board 22 Board 23
	Female Physiology		
	Self-reported hormonal contraceptive use in female recruits during British Army basic training Comparison of body segment masses between male and female postmortem human specimens	Bethany J Moxham Meghan P O'Donovan	Board 24 Board 25
	Defining a sports bra for fitness - U.S. Army To fit or not to fit: How the body armor issuing process differs for males and females	Michael S McGurk K Blake Mitchell	Board 26 Board 27
	Relationship between subjective ratings of fit and performance for female soldiers	K Blake Mitchell	Board 28
	Cognitive Performance Cognitive load, distraction, and information pickup in a dynamic visual search task	Brian Higginson	Board 29
	Accuracy-reaction time trade off in dynamic marksmanship task under different mechanical and cognitive loads The effects of probabilistic information and gaming experience on a performance in a military specific shoot / don't-shoot task	Brian Higginson Christopher Vine	Board 30 Board 31
	Unregulated caffeine consumption and the cognitive performance of Israeli Infantry Special Forces trainees during a 96-hour field combat exercise	Itay Ketko	Board 32
	The Effect of rotary shifts on the cognitive performance of Israeli Submariners: preliminary results Effects of heat stress in armored vehicles on cognitive performance and their mitigation due to individual cooling: Preliminary results of a pilot	Itay Ketko Alexander Witzki	Board 33 Board 35
	Exploring relationships between fireteam communication and marksmanship performance across varying engagement workload conditions.	Peioneti MD Lam	Board 36
	Measuring the effects of concurrent and subsequent physical activity on cognitive performance by using the Load Effects Assessment Program (LEAP) obstacle environment The potential effects of mental fatigue on marksmanship judgment performance; insights from research	Olaf Binsch	Board 37
	The potential effects of mental fatigue on marksmanship judgment performance: insights from research on physically and cognitively demanding sport Feasibility and methodology of neurofeedback training to optimise attentional performances of healthy soldiers	Hui Kwan Nicholas Lam	Board 39
	Feasibility and methodology of neurofeedback training to optimise attentional performances of healthy soldiers The Relationship Between Marksmanship Qualification Scores and a Simulated Marksmanship Performance Task	Clémentine Jacques Jose Villa	Board 39 Board 40
	Psychological Resilience and Performance The mental preparation of the Military and Sports Physical Training Instructors (SPTI) in formation	Gilles Fégueux	Board 41
	Sustainable physical and mental readiness training for tactical operators	Richard E Cleveland	Board 42
	An ecological approach to clinically assess nightmares in military service members with severe PTSD The relationship between frequency of psychological skills application and novices' shooting performance in the military	Emeric Saguin Rachel Chan Sihui	Board 44 Board 44
14:00 to 14:45	Dynamic associations between catastrophic thinking and PTSD among active duty military personnel receiving cognitive processing therapy Keynote 4	Sarah Vacek Maj Gen Tim Hodgetts	Board 45 Main
14:45 to 15:15	Coffee Break	con min nougetts	-v1CIII
15:15 to 16:45	Thematic Sessions 28 to 30 Thematic 28: Holistically assessing dismounted infantry performance: bridging science and operational relevancy	Jennifer Sperlein	Main
	Thematic 29: Adopting a systems health approach to enhance warfighter readiness and resilience Thematic 30: Mountain warfare: examining the effects of multi-week field training exercises in austere	Chris Connaboy	1
17:00 to 18:00	environments on warfighter health and readiness Closing	Douglas M Jones Brig Tony Finn	2 Main
18:30 onwards	Gala Reception and Keynote Speaker	Prof Ben Goldacre	Gala