ICEE2017 ORAL

Author (s = student)	Title	abstract #	Country
Mon 10:10-11:00	**Temperature regulation 1**		
Stewart	Internal and external cooling methods and their effect on body temperature and manual dexterity	0102	Australia
Castellani	The Effects of Separate and Combined Forearm and Face Heating on Hand Temperatures and Dexterity during Cold Exposure	0010	USA
Færevik	Rescue and survival in Arctic sea regions	0141	Norway
Wakabayashi	Greater contribution of glycolytic metabolism during exercise in cold water with hypothermic skeletal muscle	0040	Japan
Mon 11:40-12:55	**Occupation**		
Rissanen	Performance of respiratory protective equipment in the cold environment	0051	Finland
Ciuha	Heat Shield project: The effect of a summer heat wave on the productivity in an automobile-parts manufacturing plant	0201	Slovenia
Walker	Thermal strain during job-related tasks conducted by the National Ambulance Resilience Unit	0042	UK
Looney	Energy Expenditure Estimation During Military Load Carriage Over Complex Terrain	0119	USA
Koyama	Evaluations of the daytime light environment adapted to the type of working task; Comparison between blue excitation and purple excitation white LEDs	0174	Japan
Sandsund	Musculoskeletal symptoms in the Norwegian fishing fleet. A register data and self-reported questionnaires study	0155	Norway
Mond 15:30-16:55	**Perception 1**		
Takamatsu	Physiological evaluations and development for comfort cabin	0070	Japan

Havenith	Ethnic differences in preferred air flow temperature in a vehicle environment	0076	UK
Hayashi (s)	Effect of using wood for outdoor seating on thermal sensation	0098	Japan
Fojtlin (s)	An Innovative HVAC Control System: Comparison of the system outputs to comfort votes	0017	Czech Republic
Ohno	Does the vertical position of the axis of whole-body rolling affect discomfort in seated persons?	0184	Japan
Tues 08:00-09:15	**Physiology and exercise physiology**		
Tipton	The human ventilatory responses to different stresses	0156	UK
Dobashi (s)	Separate effects of voluntary hyperventilation and resultant hypocapnia on metabolic and cardiovascular responses during and following supramaximal exercise	0034	Japan
Matsutake (s)	Combined effects of cold pressor test and apnea on cardiovascular responses during dynamic two-legged knee extension exercise	0103	Japan
Cao (s)	Expiratory flow limitation under moderate hypobaric hypoxia does not influence ventilation, oxygen uptake, and operating lung volumes during incremental running in endurance runners	0035	Japan
Bröde	Q_{10} effect and thermal cardiac reactivity related to the interrelation between heart rate and oxygen consumption under heat stress	0038	Germany
Cheung	Oxygen availability effects on exercise performance and tissue oxygenation during mild hypothermia	0096	Canada
Tues 09:55-10:45	**Materials and design 1**		
Xu	Effect of material thermal properties on thermal performance of multi-layer personal protective ensembles	0009	USA
Watson (s)	Investigation of low risk category industrial workwear materials for use in hot environments	0025	Australia
Satsumoto	Evaluation of CO_2 permeability for water vapour permeable waterproof clothes	0166	Japan

Veselá	Analysis of local clothing area factors of typical office clothing items and their correlation to the ease allowance at various body landmarks	0110	The Netherlands
Tues 10:45-12:00	**Materials and design 2**		
Lu	The development of smart heating gloves and performance evaluation	0139	China
Jussila	Heated Gloves for Rewarming and Sustaining Hand Temperatures at Cold Work	0157	Finland
Troynikov	Hand movement, skin deformation behaviour and glove-skin interfacial pressure: impact on therapeutic glove design	0014	Australia
Raj (s)	A Numerical Study to Analyse the Effect of Dynamic and Heterogeneous Microclimates in Protective Clothing on Skin Burn Injury	0033	Hong Kong
Watson (s)	Evaluating the effect of transient sleeping environments on athletic sleep quality using thermal manikins	0187	Australia
Classen	Determination of the insulation of baby sleeping bags- material test versus Manikin test	0145	Germany
Tues 15:20-16:10	**Temperature regulation 2**		
Barwood	Acute anxiety predicts components of the cold shock response on cold water immersion before and after repeated immersion: implications for control of ventilation	0115	UK
Fujimoto (s)	Low intensity exercise delays shivering response to core cooling	0020	Japan
Lei (s)	Behavioural and autonomic thermoregulation during exercise in differing thermal profiles of heat matched for vapour pressure.	0066	New Zealand
Cotter	The body core is far more thermosensitive than the skin in driving behavioural thermoregulation during swimming	0189	New Zealand
Tues 16:50-17:40	**Heat Exposure 1**		
Maley	Evaluation of commercial cooling systems to minimise thermal strain while wearing chemical-biological protective clothing	0101	Australia

Flouris	Screening criteria for increased susceptibility to heat stress during work or leisure in hot environments in healthy individuals aged 31-70 years	0140	Greece
Lucas	Validation of core body temperature estimation from heart rate in sugarcane harvesters	0173	UK
Waldock (s)	Physiological and perceptual responses in the elderly to simulated daily living activities in UK summer climatic conditions	0062	UK
Tues 17:40-18:30	**Heat exposure and adaptation**		
Watkins (s)	A New Occupational Heat Tolerance Test	0053	UK
Willmott (s)	The efficacy of twice daily long-term heat acclimation on heat acclimation state, immune function and exercise tolerance	0134	UK
Racinais	Passive heat acclimation improves skeletal muscle contractility in humans	0122	Qatar
Lee	Effects of 28-day cold and heat cross exposure on thermoregulatory and behavioral responses in mice	0045	Republic of Korea
Wed 08:00-09:15	**Exercise performance**		
Osborne (s)	The effects of cycling in the heat on gastrointestinal inflammation and neuromuscular performance	0050	Australia
Sotiridis (s)	Hypoxic acclimatization does not improve exercise performance and thermoregulatory responses in the heat: no evidence of cross-tolerance/adaptation	0196	Slovenia
Okuyama (s)	Thermal and cardiorespiratory responses and exercise performance in the heat during high intensity intermittent exercise that mimics rugby game	0108	Japan
Levels	The effects of heat exposure on the final sprint during a 20-km cycling time trial	0133	The Netherlands
Minett	Cold-water immersion recovery improves repeated sprint performance following a short training block in the heat.	0049	Australia

Ang	Effects of training in cool vs. warm environment on subsequent aerobic performance in a warm and humid condition	0044	Singapore
Wed 09:45-10:35	**Firefighters**		
Xu (s)	Influence of sudden ambient temperature change on thermal response of human body dressed in firefighting clothing.	0170	China
Hunt	Body Core Temperature Remains Elevated following Recovery from Firefighting Activities in the Australian Defence Force	0027	Australia
Macrae	Core body temperature dynamics during fire fighter heat exposure training	0092	Switzerland
Oksa	Muscular fatigue and recovery after a heavy work bout in the heat: comparison of four recovery interventions on muscle structure and mechanical properties in firefighters	0022	Finland
Thur 08:00-09:05	**Perception 2**		
Penko (s)	Surface heat flux and thermal comfort in women during rest and exercise in a cold environment	0193	Canada
Mekjavic	Perception of thermal comfort during skin cooling and heating	0200	Slovenia
House	Comparison of constant *vs* . intermittent forced-air ventilation under body armour and the impact on heat strain, thermal perception and thermal comfort	0197	UK
Den Hartog	Effects of Task and Motivation on Sensations of Discomfort and Task Performance	0113	USA
Umemiya	Comparison of thermal environment, thermal sensation and sleep quality among thermal control patterns in summer sleeping rooms	0135	Japan
Thur 09:05-10:10	**Heat adaptation**		
Garrett	Effectiveness of short-term heat acclimation on intermittent exercise in the heat with moderately-trained females controlling for menstrual cycle phase	0059	UK
Kirby (s)	Female performance following short-term and long-term heat acclimation	0178	UK

Poirier (s)	Does heat acclimation improve whole-body heat loss in older men?	0100	Canada
Stanley	Divergent physiological adaptations from short-term heat acclimation in dry vs humid conditions at equivalent heat index: no performance change in temperate conditions	0072	Australia
Garrett	Effectiveness of short-term heat acclimation on intermittent exercise in the heat with moderately-trained males	0057	UK
Thur 10:50-12:55	**Temperature regulation 3**		
Coull (s)	Regional Sweat Distribution in Young and Older Individuals	0075	UK
Meade (s)	Hypohydration impairs whole-body evaporative heat loss during exercise in the heat	0182	Canada
West (s)	Sweat distribution and perceived wetness across the human foot.	0077	UK
Massey	No Sweat Boys! Think X-Linked Hypohidrotic Ectodermal Dysplasia	0143	UK
Che Muhamed	Thermoregulatory responses during eccentric downhill running exercise in trained male.	0149	Malaysia
Thur 16:25-17:40	**Modeling and design**		
Kuklane	Clothing design parameters that affect estimation of clothing insulation change due to posture and motion	0065	Sweden
Bogerd	Prediction of thermopysiological responses to local skin cooling using the Fiala thermophysiological model	0163	The Netherlands
Coca	Comparison of Thermal Manikin Modeling and Human Subjects Responses During Use of Cooling Devices Under Personal Protective Ensembles in the Heat	0188	USA
Welles	Human Thermoregulatory Model Based Estimation of Metabolic Rate from Core Body Temperature	0074	USA
Hepokoski	Analysis of Thermal Comfort and Draft Discomfort in a Transient and Asymmetric Environment	0147	USA

MacRae (s)	Skin temperature measurement using contact thermometry: A systematic review of validity and comparability between setups	0090	Switzerland
Thur 17:40-18:30	**Temperature regulation 4**		
Skinner (S)	Effect of passive heat stress on cerebral blood flow responsiveness across the menstrual cycle and between the sexes	0176	UK
Malcolm (s)	The influence of high intensity intermittent exercise in the heat on neuromuscular and cognitive function	0105	UK
Low	Differential regulation of body and brain temperature during hyperthermia in humans	0153	Singapore
Cooper	The influence of passive heat stress on cognitive function	0106	UK
Fri 08:00-08:50	**Temperature regulation 5**		
Fujii	K_V, K_{ATP}, and K_{Ca} channels are involved in cutaneous reactive hyperemia but not venous occlusion induced cutaneous vasoconstriction in young adults	0109	Japan
Eglin	The effect of acute beetroot juice supplementation on the responses to local cooling and endothelial function in cold sensitive individuals	0063	UK
Maeda	Relationship between endothelium-dependent vasodilation and cold-induced vasodilation	0126	Japan
Burke (s)	Effect of nitrate supplementation on vascular function, oxidative stress and a 16.1 km time trial in a normoxic environment with a younger active population.	0085	UK
Fri 08:50-09:55	**Sports clothing**		
Qi (s)	Effect of sportswear cover area on thermoregulation during running	0132	China
Du (s)	The influence of sports bra on thermoregulation during running in heat	0152	China
Lin	Validation of body-mapping sports shirts designs on thermal physiological responses and comfort in warm and humid environment	0172	Taiwan

Raccuglia	T-shirt Sweat Absorption Mapping	0111	UK
Gao	Thermophysiological responses of exercising in body mapping T-shirts in a warm and humid environment: subject test and predicted heat strain	0161	Sweden
Fri 10:35-11:25	**Body morphology**		
Chen	Resting energy expenditure measured in a metabolic chamber at different environmental temperatures in lean and obese young men	0039	USA
Notley	Body morphology appears not to influence thermoeffector function during uncompensable heat adaptation	0006	Australia
Fournet	Hand rewarming following exercise in cold air is dependent on body fatness	0181	France
Costello	Individualising the exposure of −110°C whole body cryotherapy: The effects of sex and body composition	0129	UK
Fri 12:45-13:35	**Heat Exposure 2**		
Weller	Thermal strain during prolonged low intensity exercise wearing an immersion protection aircrew equipment assembly (AEA) in air temperatures of 10, 20 and 30 ^{o}C.	0117	UK
Sakoi	Heat disorder risk evaluation by a new effective wet bub globe temperature index	0199	Japan
Walker	Reliability and face validity of a protocol for defining the inflection point in deep body temperature during cycling exercise in a high and low humidity	0043	UK
Bernard	Revisiting the occupational exposure limit based on wet bulb globe temperature	0099	USA