



UNIVERSITY OF
PORTSMOUTH

PES 2018 PROGRAMME

**3rd International Conference on
Physical Employment Standards**

University of Portsmouth,
United Kingdom

17–19 July 2018



Co-hosted with:



port.ac.uk/pes2018

In association with the Army Recruiting & Initial
Training Command, and the Institute of Naval
Medicine, Ministry of Defence UK.



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PES|2018

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Dr Pieter Brown

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UNIVERSITY of
PORTSMOUTH



GENERAL INFORMATION

ATMs

The nearest ATMs to the conference venue are located towards Gunwharf quays (follow Park Road); at the entrance to the Historic Dockyard or at the Tesco express or branch of the Co-operative on Queen Street.

Catering

The conference will provide: morning tea and coffee, lunch and afternoon tea and coffee during the designated breaks and is included in your registration fee.

Conference Venue

The conference venue is the Portland Building, situated on Portland Street, PO1 3AH. This is marked “2” on your conference Area Map (Page 3-4).

Cloakroom/Luggage Storage

There will be a lockable room available in the conference venue, which will be unmanned. This will be unlocked during the designated breaks. To have access at other times, please visit the registration desk.

Dress Guidelines

The guidelines for expected attire for attendees and presenters at the conference is smart/casual.

Emergency Details

In the case of an emergency, please speak to a member of staff or dial 3333 from an internal university phone. They will notify the appropriate emergency services.

First Aid

If you require first aid, please speak to any member of staff at the conference venue.

Instructions for Presenting Authors

Please see page 25-26 for detailed instructions for presenting authors. Presentations will need to be uploaded to the conference server in room South Lecture Theatre 0.41. Posters will need to be hung on your assigned board in your assigned room on the day of your thematic session.

Internet

Free Wi-Fi is available under the network name: UoP Guest.

Lost and Found

There will be a Lost and Found located at the registration desk during the programme, and in the lockable cloakroom overnight.

Media

Please note that we will have a photographer at the venue and some sessions may be filmed for archival purposes with permission of the presenter. Please email pesconference2018@gmail.com if you have any concerns. For updates on the conference, follow us on twitter [@PESconf2018](https://twitter.com/PESconf2018).

Mobile Phones

Please be aware that the use of mobile phones can be distracting to attendees and presenters. Delegates are asked to turn off their mobile phones or set them to silent when in sessions.

Name Badges

For security reasons, we ask all delegates to wear their name badges on entry and within the conference venue in order to access the programme and events. Presentations will only be accessible to registered delegates. The lanyard provided will also hold your tickets for the conference social events that you have selected to attend.

Programme

The conference organising committee reserve the right to change the programme at any time without notice. Please note that this programme was accurate at the time of printing.

Registration/Information Desk

The registration desk will be situated at the main entrance of the Portland building and will be manned during pre-conference registration and during each designated break in the scientific programme.

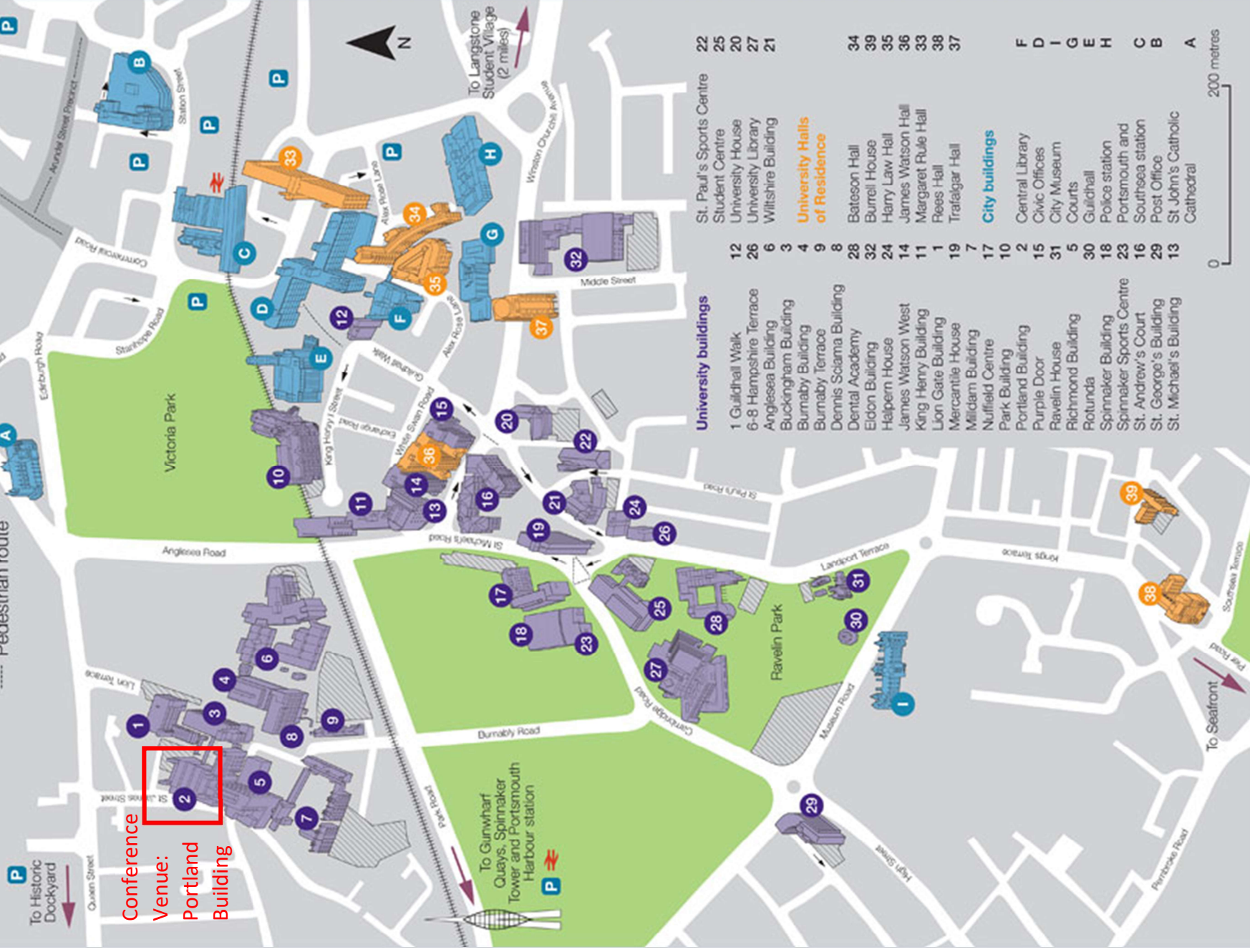
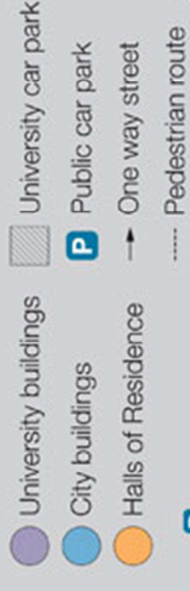
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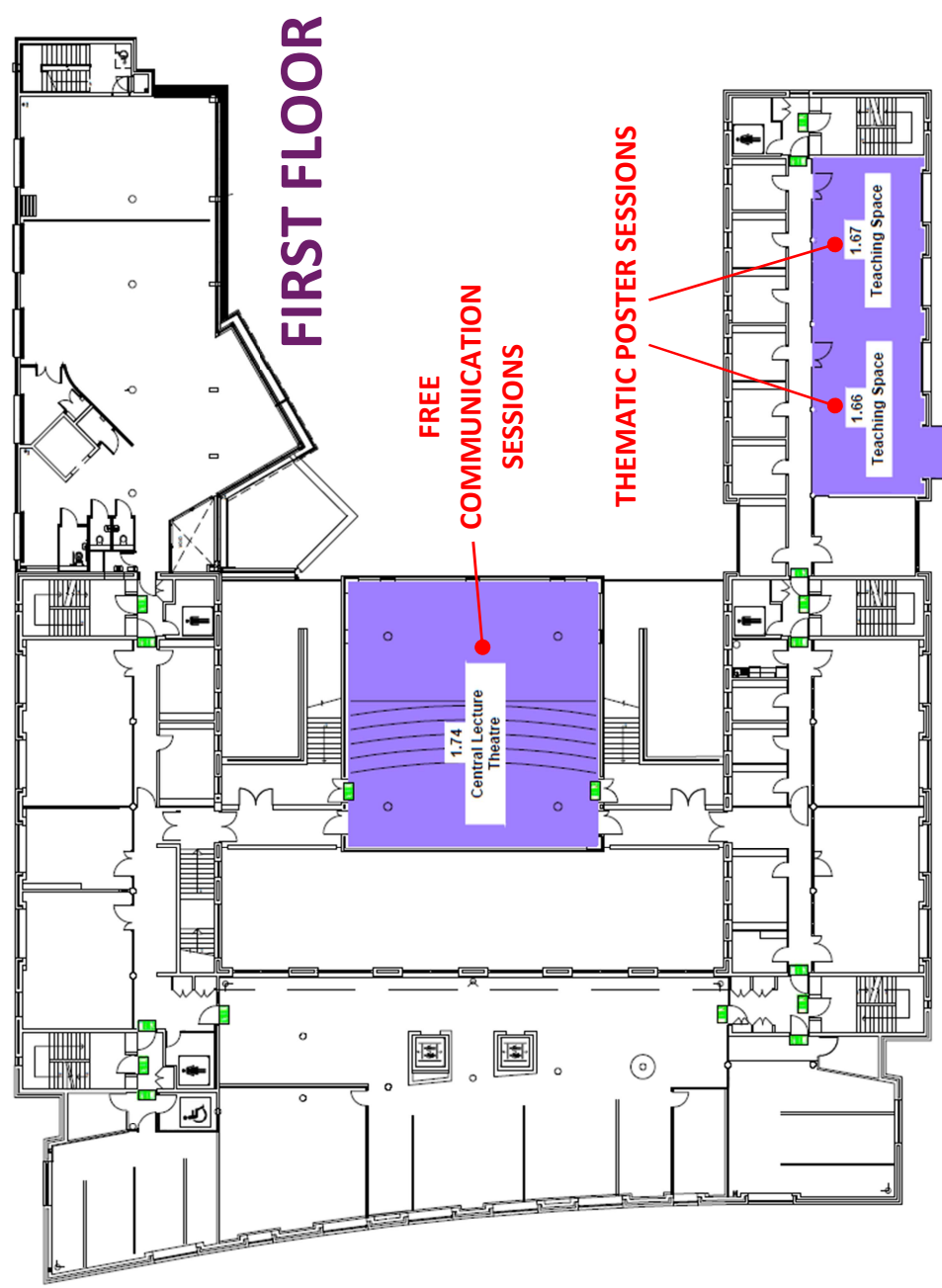
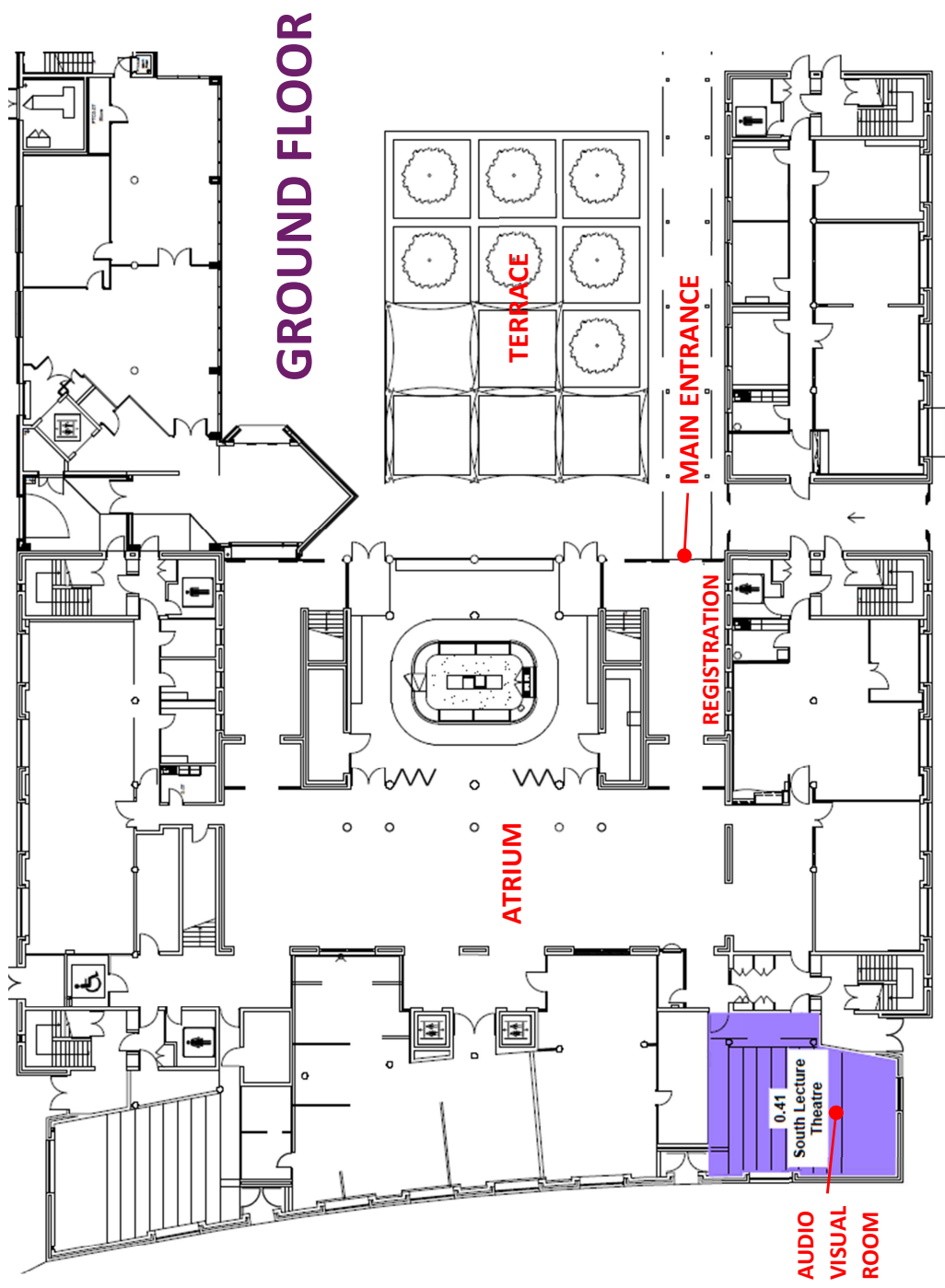
For the University's Security Control Room (The Lodge) please contact: +44 (0)23 9284 3418.

Telephone

For further conference information, please contact: +(44) 2392 84 5358

University Quarter





PROGRAMME OVERVIEW

Time	MONDAY 16 TH JULY 2018	TUESDAY 17 TH JULY 2018	WEDNESDAY 18 TH JULY 2018	THURSDAY 19 TH JULY 2018
08:00				
08:30		Registration		
09:00			Registration	Registration
09:30		Opening Address	FC2.1 - Specialist Roles	FC3.1 - Predictor vs. Task Simulation
10:00		Keynote - Dr Deborah Gebhardt – Historical Perspectives on PES		
10:30			BREAK	BREAK
11:00		BREAK	TH2A - Environmental Considerations for PES	TH3A - Development of PES 2
11:30			TH2B - Development of PES 1	TH3B - Development of PES 3
12:00		FC1.1 - Job Task Analysis	TH2C - Fatigue and Injury: Implications for PES	FC3.2 - Load Carriage for PES
12:30		Roundtable - ICSP2020	Roundtable - Earth, Wind, Fire and Water	
13:00				
13:30		LUNCH	LUNCH	LUNCH
14:00		TH1A - Job Task Analysis 1		FC3.3 - Future Considerations for PES
14:30		TH1B - Load Carriage Considerations for PES	FC2.2 - Adverse Impact	
15:00		TH1C - Job Task Analysis 2		Future Workforce Presentation
15:30		BREAK	BREAK	Closing Address
16:00		Keynote - Dr Jace Drain – Physical Training for PES	Keynote - Dr David Flower – PES for the Ageing Workforce	END DAY 3
16:30				
17:00		FC1.2 - Physical Training for PES	END DAY 2	
17:30				
18:00	Registration	END DAY 1		
18:30				
19:00	BBQ <i>Portland Building Terrace</i>	No Organised Social Activity	Drinks at Mary Rose Museum <i>followed by</i> Conference Dinner at Boathouse 7	
19:30				
20:00				

Keynote

Free communication

Thematic poster

Roundtable

Other

MONDAY 16TH JULY

Registration

If you are looking to register for the conference on Monday the 16th of July the registration desk will be situated at the entrance to the Portland Building will be open from 17:30. On all subsequent days, the registration desk will be open in the morning before the conference begins.

For delegates who have tickets for the opening BBQ, this will begin on the front terrace of the Portland building at 19:00 where food will be provided. Your tickets will be included in your welcome pack.



Programme

17:30	Registration Open	
	Portland Building, Front Terrace	
18:30-21:00	BBQ	
21:00	END OF DAY 0	END OF DAY 0

THURSDAY 17TH JULY

08:00	Registration Open	
	Portland 1.74	
09:30-10:00	Conference Opening Address Mike Tipton Gemma Milligan	
10:00-11:00	Invited keynote 1.1: Deborah Gebhardt, USA Historical Perspectives on Physical Employment Standards	
11:00-11:30	BREAK	BREAK

TUESDAY 17TH JULY

11:00-11:30	BREAK	
	Portland 1.74	
11:30-12:30	<p>Free Communication 1.1 - Job Task Analysis</p> <p><i>Session chairs: Veronika Jamnik and Karl Friedl</i></p> <p>A PRELIMINARY JOB TASK ANALYSIS OF THE PHYSICAL DEMANDS OF NON-GROUND CLOSE COMBAT ROLES IN THE BRITISH ARMY</p> <p>Sarah Needham-Beck, UK</p> <p>DEVELOPING A PHYSICAL EMPLOYMENT STANDARD ASSESSMENT FOR UNDERGROUND COAL MINES RESCUE BRIGADESMEN</p> <p>Catriona Burdon, Australia</p> <p>DEVELOPMENT OF THE STANDARDIZED PHYSICAL ABILITIES TEST FOR THE ADMISSION PROCESS AT THE ÉCOLE NATIONALE DE POLICE DU QUÉBEC</p> <p>Annie Gendron, Canada</p> <p>ONGOING DEVELOPMENT OF A PHYSICAL COMPETENCY STANDARD FOR THE NATIONAL AMBULANCE RESILIENCE UNIT</p> <p>Ella Walker, UK</p>	
12:30-13:00	<p>Roundtable 1 - ICSP2020</p> <p><i>Session chaired by Canadian Armed Forces</i></p>	
13:00-14:00	LUNCH	
	Room 1.66	Room 1.67
14:00-14:45	<p>Thematic Poster 1A - Job Task Analysis 1</p> <p><i>Session chair: Joanne Caldwell</i></p> <p>SELF-RATED PHYSICAL WORK DEMANDS FOR GROUND COMBAT SOLDIERS</p> <p>Jonas Larsson, Sweden (Board #1)</p> <p>RELATIONSHIP BETWEEN SELF-REPORTED COMBAT-RELEVANT TASK FREQUENCY, DIFFICULTY, AND IMPORTANCE</p> <p>Jesse Stein, USA (Board #2)</p> <p>ROYAL NAVY SUBMARINERS RATE SUBJECTIVE PHYSICAL DEMAND OF COMMON TASKS HIGHER THAN SURFACE FLEET PERSONNEL</p> <p>Samantha Saunders, UK (Board #3)</p> <p>DIFFERENCES IN THE SUBJECTIVE PHYSICAL DEMAND RATINGS OF COMMON ROYAL NAVY SURFACE FLEET TASKS</p> <p>Samantha Saunders, UK (Board #4)</p> <p>APPLYING THE BOOKMARKING METHOD TO SHORT DURATION TESTS WITHIN THE ROYAL AUSTRALIAN NAVY</p> <p>Catriona Burdon, Australia (Board #5)</p>	<p>Thematic Poster 1B - Load Carriage Considerations for PES</p> <p><i>Session chair: Nicola Armstrong</i></p> <p>THORACO-PULMONARY MECHANICAL PERTURBATIONS DURING LOAD CARRIAGE: IMPACT OF THE MASS AND ITS DISTRIBUTION</p> <p>Gregory Peoples, Australia (Board #12)</p> <p>THE IMPACT OF EXTERNAL LOADS CARRIED BY POLICE OFFICERS ON VERTICAL JUMP PERFORMANCE</p> <p>Amy Wiley, Australia (Presented by Robin Orr, Australia) (Board #13)</p> <p>EXPLORATORY ANALYSIS OF GROUND REACTION FORCES DURING LOADED AND UNLOADED MARCHING AT DIFFERENT VELOCITIES</p> <p>Kellen Krajewski, USA (Board #14)</p> <p>PHYSIOLOGICAL DEMANDS ON PORTUGUESE CADETS: TIME SERIES ANALYSIS OF A LONG DURATION INFANTRY MARCH</p> <p>Rui Lucena, Portugal (Board #15)</p> <p>INVESTIGATION OF THE USE OF MACHINE LEARNING ALGORITHMS TO IDENTIFY MILITARY LOAD CARRIAGE ACTIVITY</p> <p>Sarah Coakley, UK (Board #16)</p>

TUESDAY 17TH JULY

Room 1.66

14:45-15:30

Thematic Poster 1C - Job Task Analysis 2

Session chair: Catriona Burdon

PHYSICAL EMPLOYMENT STANDARD (PES) DEVELOPMENT STUDY:
MEASUREMENT OF THE PHYSICAL DEMAND FOR SELF-
EVACUATION ABOARD AN OFFSHORE OIL AND GAS INSTALLATION

Farrell Cahill, Canada (Board #6)

A CRITICAL TASK ANALYSIS FOR TECHNICIANS IN THE OFFSHORE
WIND INDUSTRY

Gemma Milligan, UK (Board #7)

ROYAL NAVY TASK CRITICALITY RATINGS ARE BEST EXPLAINED BY
THE POTENTIAL FOR INJURY OR DEATH

Piete Brown, UK (Board #8)

JOB DEMANDS ANALYSIS FOR THE ROYAL CANADIAN MARINE
SEARCH AND RESCUE VOLUNTEERS OF BRITISH COLUMBIA

Lynneth Stuart-Hill, Canada (Board #9)

DEVELOPMENT AND IMPLEMENTATION OF FITNESS STANDARDS
FOR NUCLEAR SECURITY OFFICERS AND RESPONSE FORCE IN
CANADA

Aaron Derouin, Canada (Board #10)

Room 1.67

Thematic Poster 1D - Physical Training Considerations for PES

Session chair: Robin Orr

TIMING OF NUTRITIONAL INTAKE AROUND PHYSICAL ACTIVITY DURING
MILITARY TRAINING

Victoria Edwards, UK (Board #17)

CHANGES IN SOMATOSENSORY AND SENSORIMOTOR FUNCTION
FOLLOWING A BOUT OF BRITISH ARMY FOOT-DRILL

Alex Rawcliffe, UK (Board #18)

GENDER DIFFERENCES IN CARDIOVASCULAR STRAIN DURING BRITISH ARMY
OFFICER CADET TRAINING

Steven Powell, UK (Board #19)

ACCOMMODATION STUDY: SUPERVISED RESISTANCE TRAINING AND DIET
VERSUS DIET ALONE TO DETERMINE THE OPTIMAL BODY WEIGHT
MANAGEMENT PLAN

Michael Wahl, Canada (Presented by Farrell Cahill, Canada) (Board #20)

YEARS OUT OF ACADEMY INFLUENCES GENERAL AND JOB-SPECIFIC FITNESS
IN DEPUTY SHERIFF INCUMBENTS

Joseph Dulla, USA (Presented Robert Lockie, USA) (Board #21)

15:30-16:00

BREAK

BREAK

Portland 1.74

16:00-17:00

Invited keynote 1.2: Jace Drain, Australia

Physical Training for Physical Employment Standards

17:00-18:00

Free Communication 1.2 - Physical Training for PES

Session chairs: Brad Nindl and Joseph O'Halloran

Session
sponsored by:

RELATIONSHIP BETWEEN THE OCCUPATIONAL PHYSICAL ASSESSMENT TEST, INJURY AND GRADUATION FROM ARMY INITIAL ENTRY TRAINING

Marilyn Sharp, USA

TIME-RELATED CHANGES IN STRENGTH, BODY COMPOSITION, AND PHYSICAL TRAINING VOLUME IN NAVAL SPECIAL WARFARE OPERATORS

Kim Beals, USA (Presented by Brad Nindl, USA)

A 12-WEEK STRENGTH BASED TRAINING PROGRAMME FOR RECRUITS IN PREPARATION FOR THE RAF REGIMENT PHYSICAL EMPLOYMENT STANDARD

James Treweek, UK

EFFECTS OF DIFFERENT TYPES OF PHYSICAL TRAINING ON WARFIGHTERS SIMULATED COMBAT TASK PERFORMANCE

Tommi Ojanen, Finland

18:00

END OF DAY 1

END OF DAY 1

WEDNESDAY 18TH JULY

09:00	Registration Open	
	Portland 1.74	
09:30-10:30	Free Communication 2.1 - Specialist Roles <i>Session chairs: Steve Myers and Steve Foulis</i> PROFILING THE ABSOLUTE AND RELATIVE STRENGTH OF A SPECIAL OPERATIONS POLICE UNIT Kimberly Talaber, Australia (Presented by Robin Orr, Australia) PHYSICAL EMPLOYMENT STANDARDS FOR EXPLOSIVE ORDNANCE CLEARANCE PERSONNEL IN THE AUSTRIAN ARMED FORCES Thomas Hölzl, Austria DEVELOPMENT & IMPLEMENTATION OF A SPECIAL OPERATIONS INSERTION / EXTRACTION COURSE PREREQUISITE PHYSICAL FITNESS EVALUATION Anna Smyth, Canada CONTENT VALIDATION OF A JOB SPECIFIC TEST FOR SPECIAL FORCES OPERATORS Conor Macdonald, Canada	
10:30-11:00	BREAK	BREAK
	Room 1.66	Room 1.67
11:00-11:45	Thematic Poster 2A - Environmental Considerations for PES <i>Session chair: Ben Lee</i> HYDRATION STATUS OF CANDIDATES UNDERGOING CONDUCT AFTER CAPTURE TRAINING Sylvie Fortier, Canada (Board #1) PREVENTION OF UNCOMPENSABLE HEAT STRESS IN PROTECTIVE CLOTHING BY PROMOTING EVAPORATIVE HEAT LOSS DURING REST PERIODS Karl Glitz, Germany (Board #2) THE EFFECTS OF SIMULATED ALTITUDE ON COGNITIVE FUNCTION Thomas Williams, UK (Board #3) THE THERMAL CONSEQUENCES OF FLOOD RESCUE: REQUIREMENT FOR A PES? Gemma Milligan, UK (Board #4) EXERTIONAL FORCES REQUIRED TO STAND-UP FOLLOWING A FALL ON MILITARY CROSS-COUNTRY SKIS David Peacock, UK (Board #5)	Thematic Poster 2B - Development of PES 1 <i>Session chair: Ella Walker</i> COMPARING LEVELS OF FITNESS OF POLICE OFFICERS BETWEEN TWO UNITED STATES LAW ENFORCEMENT AGENCIES Cory Myers, Australia (Presented by Robin Orr, Australia) (Board #12) THE DEVELOPMENT OF A PREPARATORY PHYSICAL EVALUATION FOR THE SPAT-ENPQ Sebastien Poirier, Canada (Board #13) AEROBIC FITNESS ASSESSMENTS IN DEPUTY SHERIFF RECRUITS: THE 20-METRE MULTISTAGE FITNESS TEST AND 1.5-MILE RUN Robert Lockie, USA (Board #14) BODY FAT PERCENTAGE, FIGHT LOAD INDEX, KNEE FLEXION AND ANKLE STRENGTH ASSOCIATED WITH COMBAT FITNESS Katelyn Allison, USA (Presented by Bradley Nindl, USA) (Board #15) AN AGE ADJUSTED PHYSICAL EMPLOYMENT STANDARD BONA FIDE OCCUPATIONAL REQUIREMENT CUT-SCORE FOR HIRE-TO-RETIRE POLICE POPULATIONS Robert Seguin, Canada (Board #16)

WEDNESDAY 18TH JULY

Room 1.66

11:45-12:30

Thematic Poster 2C - Fatigue and Injury: Implications for PES

Session chair: Sarah Needham-Beck

PREDICTION OF SHOULDER INJURIES IN SPECIAL OPERATIONS FORCES BY SHOULDER STRENGTH AND KINEMATIC CHARACTERISTICS

Chris Connaboy, USA (Board #6)

OCCUPATION CHARACTERISTICS AS PREDICTORS OF UPPER EXTREMITY INJURY IN U.S. SPECIAL OPERATIONS FORCES

Kellen Krajewski, USA (Board #7)

STRENGTH ASYMMETRY AND PHYSIOLOGIC CHARACTERISTICS PREDICT ANKLE MUSCULOSKELETAL INJURY IN U.S. SPECIAL OPERATIONS FORCES

Chris Connaboy, USA (Board #8)

AN ERGONOMIC ASSESSMENT OF LADDER CLIMBING: KEY RISKS TO TECHNICIANS IN THE OFFSHORE WIND INDUSTRY

Joseph O'Halloran, UK (Board #9)

TOWARDS AN UNDERSTANDING OF MENTAL FATIGUE IN THE OFFSHORE WIND INDUSTRY

Stefi McMaster, UK (Board #10)

Room 1.67

Thematic Poster 2D - Validating PES

Session chair: Patrick Gagnon

THE IDENTIFICATION OF MEASUREMENT ERROR FROM RESPONSES TO CONTROL QUESTIONS EMBEDDED IN AN ONLINE SURVEY

Piete Brown, UK (Board #17)

IMPORTANCE OF VERIFICATION WORKLOADS TO CONFIRM ATTAINMENT OF A REAL VO2MAX IN STRUCTURAL FIREFIGHTER APPLICANTS

Ryan Hancock, Canada (Board #18)

SHIPBOARD FIREFIGHTING: THE DEVELOPMENT OF AN OPERATIONAL JOB BASED SIMULATION TEST FOR ROYAL CANADIAN NAVY (RCN) MARINE TECHNICIANS

Daniel Théoret, Canada (Board #19)

VALIDITY AND RELIABILITY OF MUSCLE STRENGTH FIELD TESTS FOR USE IN THE NORWEGIAN ARMED FORCES

Anders Aandstad, Norway (Board #20)

DEVELOPING AND VALIDATING A PHYSIOLOGICAL APTITUDE TEST FOR THE ROYAL AUSTRALIAN NAVY

Catriona Burdon, Australia (Board #21)

12:30-13:00

Roundtable 2 - Earth, Wind, Fire and Water

Session chair: Mike Tipton

13:00-14:00

LUNCH

LUNCH

WEDNESDAY 18TH JULY

13:00-14:00	LUNCH	LUNCH
	Portland 1.74	
14:00-15:30	<p>Free Communication 2.2 - Adverse Impact <i>Session chair: Marilyn Sharp and Mike Tipton</i></p> <p>A DATABASE OF SEX BIAS FOR FREQUENTLY USED PREDICTOR TESTS Tara Reilly, Canada</p> <p>IMPACT OF APPLYING DIFFERENT RESTING BLOOD PRESSURE CLEARANCE CUT-POINTS FOR PARTICIPATION IN VIGOROUS-TO-MAXIMAL INTENSITY EXERCISE Veronika Jamnik, Canada</p> <p>ACCURACY OF THE US ARMY OCCUPATIONAL PHYSICAL ASSESSMENT TEST CLASSIFICATIONS Stephen Foulis, USA</p> <p>USE OF FITNESS TRAINING TO OVERCOME ADVERSE IMPACT IN PARAMEDIC PRE-EMPLOYMENT SCREENING Daniel Armstrong, Canada</p> <p>ADVERSE IMPACT STUDY: EVALUATION OF PHYSICAL EMPLOYMENT STANDARD (PES) BASED UPON PHYSICAL DEMANDS FOR SELF-EVACUATION ABOARD AN OFFSHORE OIL AND GAS INSTALLATION Farrell Cahill, Canada</p> <p>EXAMINING POST-IMPLEMENTATION PASS RATES OF A NEWLY-DEVELOPED PHYSICAL EMPLOYMENT STANDARD (WFX-FIT) BETWEEN 2012 AND 2016 Robert Gumieniak, Canada</p>	
15:30-16:00	BREAK	BREAK
	Portland 1.74	
16:00-17:00	<p>Invited keynote 2.1: David Flower, UK</p> <p>PHYSICAL EMPLOYMENT STANDARDS IN THE AGEING WORKFORCE</p>	
17:00	END OF DAY 2	END OF DAY 2

Wednesday 18th July, 18:30 – Late
Networking event: Ticketed Entry

18:30 Canapés and drinks at the Mary Rose Museum

20:30 Conference Dinner and Music at Boathouse 7

THURSDAY 19TH JULY

09:00	Registration Open	
	Portland 1.74	
09:30-10:30	Free Communication 3.1 - Predictors vs. Task Simulation <i>Session chairs: Tara Reilly and René Nevola</i>	
	THE PHYSICAL FITNESS CHARACTERISTICS THAT RELATE TO WORK SAMPLE TEST BATTERY PERFORMANCE IN DEPUTY SHERIFF RECRUITS Robert Lockie, USA CARDIORESPIRATORY FITNESS AS A CUT-SCORE DETERMINANT FOR A MUSCULAR ENDURANCE ASSESSMENT Joanne Caldwell, Australia PERFORMANCE ON FREDRIKSTAD FIREFIGHTER FITNESS TEST VERSUS APPROVED LABORATORY STRENGTH AND ENDURANCE TESTS FOR FIREFIGHTERS Erna von-Heimburg, Norway MORPHOLOGICAL CHARACTERISTICS ASSOCIATED WITH SUCCESSFUL / NON-SUCCESSFUL PERFORMANCE ON OCCUPATIONALLY SPECIFIC, OPERATIONALLY RELEVANT PHYSICAL TASKS Neal Baumgartner, USA	
10:30-11:00	BREAK	BREAK
	Room 1.66	Room 1.67
11:00-12:00	Thematic Poster 3A - Development of PES 2 <i>Session chair: Gregory Peoples</i> RUNNING MILITARY SPRINT TEST VERSUS FIELD AND WINGATE PROTOCOL: A CROSS VALIDATION STUDY Rui Lucena, Portugal (Board #1) EVALUATION OF A SIMULATION TEST FOR PREDICTING CRITERION PERFORMANCE IN A MARAUDING TERRORIST FIREARMS INCIDENT Andy Siddall, UK (Board #2) POSTURAL CONTROL AND FLEXIBILITY AS A PART OF FIREFIT-SYSTEM FOR ASSESSING PHYSICAL WORK CAPACITY AMONG FIREFIGHTERS Anne Punakallio, Finland (Board #3) DEVELOPING AN OCCUPATIONAL TEST FOR A COMPLEX CARDIORESPIRATORY ENDURANCE WORK TASK Catriona Burdon, Australia (Board #4) A LITERATURE REVIEW TO DEVELOP EVIDENCE BASED DEFINITIONS AND METHODS FOR DOCUMENTING THE PHYSICAL DEMANDS OF JOB ROLES Mark Heidebrecht, USA (Board #5) VALIDATED PHYSICAL ABILITIES TEST (VPAT) AND SEPARATION RATES AMONG LAW ENFORCEMENT ACADEMY RECRUITS Joseph Dulla, USA (Presented by Robert Lockie, USA) (Board #6)	Thematic Poster 3B - Development of PES 3 <i>Session chair: Neal Baumgartner</i> UNDERSTANDING DEMANDS OF PATROL PATHFINDER COURSE AND THE ATTRIBUTES RELATED TO SUCCESS Jacqueline Laframboise, Canada (Board #12) USING A PHYSICAL EMPLOYMENT STANDARD TO PREDICT CARDIORESPIRATORY FITNESS – BLENDING OPERATIONAL READINESS AND HEALTH RISK Jacqueline Laframboise, Canada (Board #13) THE DEVELOPMENT OF A REPEATED LIFT AND CARRY (RL&C) REPRESENTATIVE MILITARY TASK (RMT) FOR THE UK ARMED FORCES GROUND CLOSE COMBAT (GCC) PHYSICAL EMPLOYMENT STANDARDS Carla Rue, UK (Board #14) DEVELOPMENT OF A SWIMMING REPRESENTATIVE MILITARY TASK FOR THE ROYAL MARINE COMMANDOS' PHYSICAL EMPLOYMENT STANDARDS Christopher Vine, UK (Board #15) THE DEVELOPMENT OF A VEHICLE CASUALTY EXTRACTION REPRESENTATIVE MILITARY TASK FOR THE BRITISH ARMY GROUND CLOSE COMBAT PHYSICAL EMPLOYMENT STANDARDS Julianne Doherty, UK (Board #16)

Portland 1.74

12:00-13:00

Free Communication 3.2 - Load Carriage for PES

Session chairs: Jace Drain and Chris Connaboy

THE IMPLICATIONS OF BODY MASS AND LOAD CARRIAGE FOR DEVELOPING AND IMPLEMENTING PHYSIOLOGICAL EMPLOYMENT STANDARDS

Heather Bowes, Australia

THORACO-PULMONARY MECHANICAL PERTURBATIONS OF LOAD CARRIAGE INCREASE THE ELASTIC WORK OF BREATHING DURING SUBMAXIMAL EXERCISE

Lachlan Hingley, Australia (Presented by Gregory Peoples, Australia)

REPEATABILITY OF A FIRE AND MOVEMENT REPRESENTATIVE MILITARY TASK FOR THE UK ARMED FORCES GROUND CLOSE COMBAT PHYSICAL EMPLOYMENT STANDARDS

Ben Lee, UK

AEROBIC ENDURANCE IS MORE HIGHLY RELATED TO LOAD CARRIAGE PERFORMANCE THAN STRENGTH AND POWER

Robin Orr, Australia

13:00-14:00

LUNCH

LUNCH

Portland 1.74

14:00-15:00

Free Communication 3.3 - Future Considerations for PES

Session chairs: Deborah Gebhardt and David Flower

REVIEW OF METHODS TO IDENTIFY THE CRITICAL JOB-TASKS UNDERTAKEN BY THE EMERGENCY SERVICES

René Nevola, UK

CONSIDERING MOVEMENT COMPETENCY WITHIN PHYSICAL EMPLOYMENT STANDARDS

Steven Fischer, Canada

ASSOCIATIONS BETWEEN CHANGES IN MILITARY TASK SIMULATION, PHYSICAL FITNESS AND BODY COMPOSITION CHARACTERISTICS

Kai Pihlainen, Finland

SELECTING CANADA'S NEXT ASTRONAUTS – DESIGNING PHYSICAL DEMANDS ASSESSMENTS

Evan Walsh, Canada

15:00-15:30

Future Workforce: Karl Friedl

PERSONAL PHYSIOLOGICAL MONITORING IN THE MILITARY WORKPLACE

15:30-16:00

Conference Closing Address and Student Awards

16:00

END OF DAY 3

END OF DAY 3

Session
sponsored by:



INSTRUCTIONS FOR AUTHORS

Free Communication

Session Format:

Free Communication sessions will be 60-90 minutes in duration, allowing 4-6 oral presentations per session. Your session will be moderated by a chair and vice-chair, who will lead discussion and questions following your presentation, and ensure each presentation ends promptly.

Please upload your presentation in Room 0.41 at least an hour prior to your session – if your presentation is in a session before lunch, you will need to upload between the hours of 0830-1030, and if after lunch, between the hours of 1130-1330. Your presentation will then be transferred to the presentation room (Portland 1.74). Please attend your session room 10 minutes prior to the session commencing in order to meet your chairpersons and ensure you are happy with your presentation.

Instructions:

A free communication is an oral presentation of 10 minutes followed by 3 minutes for questions. The supported format for presentations is Microsoft Powerpoint, and optimal slide size will be 4:3. Please make sure to use formatting and fonts that are likely to be readable from a distance (>16 pt size in sans serif fonts such as Arial, Calibri or similar will be easier to read, but are not required).

Thematic Poster

Session Format:

The thematic poster sessions will be 45-60 minutes in duration, allowing 5-6 posters per session. For your presentation and questions, you will need to stand by your printed poster. Your session will be moderated by a chairperson who will lead discussion and questions following your presentation and ensure that the session is kept on time.

Please note your board number next to your name in the programme book. Please hang your poster in your session room by 0930 of the appropriate day and remove it at the end of that day. This will allow conference delegates to view your poster ahead of time or after your session has ended. The conference will provide push-pins to hang posters.

Instructions:

A thematic poster is a 4-minute oral presentation of your poster followed by 3 minutes of questions from the attendees. Poster size should be A0 and in landscape orientation. Please try to format your poster so that it is easy to read from a short distance (~3 feet), being conscious of font size, and font and background colour/contrast. Follow the format of an abstract using sections for “Introduction”, “Methods”, “Results” and “Conclusions”. The poster should have a balance of text and graphical representation (not solely one or the other). Please make sure the title of your abstract, authors, their affiliations and your institution/company are prominently shown in the heading of your poster, but **do not** include your full abstract on the poster. Please ensure to make arrangements for printing your poster in advance and consider the logistics of travel with your poster, especially if you are travelling internationally.

PRIZES AND PUBLICATIONS

PES|2018

PES 2018 Conference Student Awards

All students presenting free communications or thematic posters at the conference will be automatically entered into the conference student awards for a cash prize. Members of the organising committee will present an award for best student and best two runners up at the closing address.

Best Student Prize: £100

First runner up: £75

Second runner up: £25

Conference Publications

WORK

PES2018 have made arrangements with the journal WORK to publish a special edition supplement which will include a series of focus articles and 10 invited full length peer-reviewed papers from the presentations and thematic posters delivered at the conference.

We will contact selected authors immediately after the conference to discuss whether they would like to contribute to the special edition supplement. The full-length journal articles could be based

on a single abstract or multiple abstracts that have been derived from a larger piece of research.

Please contact the organising committee if you would like any further information or if you **do not wish** your research to be considered for publication as a full-length journal article in WORK.

Book of Abstracts

In your delegate pack you will find a USB stick which contains the conference book of abstracts. This will be published online with an ISBN.



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