

53rd Annual Conference of the Human Factors and Ergonomics Society of Australia (HFESA 2018)

The Many Faces of Human
Factors & Ergonomics

Perth, Australia
26-28 November 2018

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For permission requests, please contact Human Factors and Ergonomics Society of Australia Inc. (HFESA)
at the address below.

Human Factors and Ergonomics Society of Australia Inc. (HFESA)
Suite 18, Hills Corporate Centre
11-13 Brookhollow Avenue
Baulkham Hills NSW 2153
Australia

Phone: (02) 9680-9026

Fax: (02) 9680-9027

secretariat@ergonomics.org.au

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
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Human Factors and Ergonomics Society of Australia 2018 Conference

Sunday 25 November 2018

18.30 – 20.30 Welcome Reception

in The Grand River Ballroom at Pan Pacific Perth. Dress is smart casual. Complimentary for full registrants excluding students

Monday 26 November 2018

7.00 – 18.00 Trade exhibition – Golden Ballroom North

8.00 – 8.45 Arrival tea/coffee – Golden Ballroom North

8.45 – 8.50 Acknowledgement of Country

8.50 – 9.00 Official Opening of the HFESA 2018 conference

9.00 - 10.30 Keynote 1: Dr Rachelle Ornan

Boeing Company, Senior Design Research Lead, Advanced Product Development (Cabin Interiors)
"Aerospace Cabin Experience - Passenger Needs of the Future" ...N/A

10.30 - 11.00 Morning Tea - Golden Ballroom North

12.30 – 13.30 Lunch – Monterey's – Ground Floor

13.00 – 13.30 SIG and CPE/PAB Meetings

15.00 - 15.30 Afternoon Tea - Golden Ballroom North

17.00 – 18.00 - HFESA Annual General Meeting in Golden Ballroom South

Stream A – Occupational Health and Safety – Golden Ballroom South

Theme: Occupational Health & Safety

11.00 - 12.30 Topic: Preventing injury

Catherine Andrew	The impact of symptoms of dementia on task competency in the workplace: Experiences of workers with dementia. ...N/A
Carlo Caponecchia	Issues in defining a "safe system of work" ...N/A
Ingrid Hand	Prehabilitation preventing injuries for inherent ergonomic risks: A workers' compensation case study...94

13.30 - 15.00 Topic: Safety Management

Kate Harris	Using Consequence Network Mapping to identify paradox...180
Karin Boers	How senior management decision-making and communication on a major construction project can affect health and safety ...155
Olivia Yu	Employee-perceived health and work performance impacts of manual handling interventions over 6-months ...N/A

15.30 – 17.00 Topic: Technology

Alice Cheng	Investigating WHS risk factors and controls in the manufacturing industry to inform development of regulator-based intervention programs in NSW. ...1
Donna Lee	What caused your last slip or trip?: A holistic occupational STFAL risk factor model ...87
Michelle James	The compliance face of MSD prevention: Using a systems thinking approach ...246

Stream B – Golden Ballroom Central

Theme: Human Factors in the Workplace

11.00 - 12.30

Topic: Design and Technology

Sara Pazell	Work as a prescription for well-being: a human-centred design approach to achieve "Net Positive" ...347
Nicholas Duck	Improving useability of an electrical maintenance control room ...254
Ari Antonovsky	A field study of human factors in the workspace of submarine maintainers....39

13.30 – 15.00

Topic: Personnel in the Workplace

Nicholas Duck	Practical issues and solutions for integrating human factors across five major metropolitan rail infrastructure projects ...N/A
Julia Pitsopoulos	Risk based training needs analysis (RBTNA) and broader competence assurance across a range of safety critical industries ...N/A
Wendy Elford	Up close and personal: What motivates ergos? ...451

15.30 - 17.00

Topic: Transport

Joanne Knight-Smith	Human factors in train control room re-design: A case study from a human factors consultant and occupational therapist...134
Rachel Goodsell	Driver comprehension of overtaking legality for wide centreline treatments ...292
Toby Atkinson	Human factors principles for light rail design in an urban environment...427

Stream C - Boardroom

Workshops

11.00 - 12.30

Topic: Fatigue Incident Investigation

Nicholas Mabbott	Fatigue Incident Investigation Workshop ...N/A
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13.30 - 15.00

Topic: Musculoskeletal Disorders

Jean Mangharam	The Development of a Framework for The Prevention and Management of Work-related Musculoskeletal Disorders and the Identification of Critical Success Factors ...N/A
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15.30 - 17.00

Topic: Accessible Technology

Sara Pazell	Immersive and Accessible Technology to Achieve Optimum Work Performance: A Demonstration...315
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Tuesday 27 November 2018

7.00 – 18.00 Trade exhibition - Golden Ballroom North

8.00 – 8.45 Arrival tea/coffee - Golden Ballroom North

9.00 - 10.30- Keynote 2: Professor Tim Bentley

Massey University, New Zealand

"The future of work: Human Factors and Ergonomics contributions to the field and a research agenda" ...396

10.30 - 11.00 Morning Tea - Golden Ballroom North

12.30 – 13.30 Lunch – Monterey's – Ground Floor

15.00 - 15.30 Afternoon Tea - Golden Ballroom North

19.00 - 23.00 Conference Dinner/Dance

in The Grand River Ballroom at Pan Pacific Perth. The theme is a masked ball and dress is cocktail with formal optional. Complimentary for full registrants excluding students.

Stream A – Defence – Golden Ballroom South

Theme: Defence

11.00 - 12.30

Topic: Submarines

Susannah Soon	Exploring the human visual system in virtual reality head mounted displays for submarine periscope image analysis ...N/A
Steph Chen	Sociotechnical system integration – Submarine command team performance...N/A
Peter Schumacher	Developing a human-centered design and assurance methodology for future submarine internal spaces...276

13.30 - 15.00

Topic: Cognition

Benjamin Hoggan	How effective are psychological resilience training interventions?: A synthesis of the evidence...49
Thomas Price	Exploring the impact of augmented night vision systems on cognitive workload and situational awareness for dismounted soldiers...386
Susannah Whitney	The role of cognitive abilities as predictors in a multifactorial model of situation awareness: A latent variable approach ...372

15.30 - 17.00

Topic: Human Performance

Liana Taylor	Using inertial measurement units to determine human performance measures for weapons assessment ...219
Jemma Coleman	Local muscle fatigue during a sustained-hold rifle aiming activity ...101
Susannah Whitney	Driving under load: Measuring driver instructor workload on a military heavy vehicle training course...361

Stream B - Golden Ballroom Central

Theme: Organisational Design / Management

11.00 - 12.30

Topic: Organisations

Kate Harris	Analysing subjective incident data to guide strategy ...168
Sara Pazell	Good work design: Strategies to embed human-centred design in organisations ...334
Jennifer Long	The many faces of visual ergonomics: Building an international visual ergonomics network ...N/A

Workshop

13.30 - 15.00

Topic: Embedding Human-centred Design

Sara Pazell	Strategies to Embed Human-centred Design in Organisations: A Participative Ergonomics Workshop...N/A
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Stream C - Boardroom

Workshops

11.00 - 12.30

Topic: Critical Decision Method

Ben Morrison	Capturing Cognition Using the Critical Decision Method...N/A
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13.30 - 15.00

Topic: Psychosocial Factors

Justine McGillivray	The Challenges and Possibilities of Managing Risks Associated with Work-related Psychological Health: ...N/A
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15.30 - 17.00

Topic: Human Machine Interface

Wes Wilkinson	Prototyping a Human Machine Interface Where Nothing Exists in the Marketplace. ...N/A
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Wednesday 28 November 2018

7.00 – 15.00 Trade exhibition - Golden Ballroom North

8.00 – 8.45 Arrival tea/coffee - Golden Ballroom North

9.00 - 10.30 - Keynote 3: Mr Jim Knowles

Ron Cummings Award Recipient

"A systems failure: How the cherries lined up - the Pike River Mine disaster" ...108

10.30 - 11.00 Morning Tea - Golden Ballroom North

12.30 - 13.30 Lunch – Monterey’s – Ground Floor

15.00 - 15.30 Afternoon Tea – Foyer 1

15.30 – 15.45 Presentations and awards

15.45 – 17.00 Final Presentation – Keynote speaker

Stream A – Golden Ballroom South

Theme: Ergonomics in Design

11.00 - 12.30 Topic: Assessment

Andrew Wright	Analysis of Australian research of usability testing of medical devices and procedures...10
Vicky Gliddon	Using technology to enhance human factors and ergonomics assessment...437
Robyn Coman	Pro-mobility communities: Development of an audit tool for optimising public seating design to promote mobility and independence....303

13.30 - 15.00 Topic: Technology Design

Joelle Mitchell	Dynamic positioning control system design: How a dropped notebook revealed an international trend of potentially fatal incidents ...N/A
Ken Horrigan	The role of ergonomists in innovative technology start-ups ...205
Bianca Albanese	Characterisation of child restraint design features associated with lowest propensity for errors: A study protocol ...57

Stream B: Symposium: To Sit or to Stand? - Golden Ballroom Central

11 - 12:30: Topic: Occupational standing

Leon Straker	Taking a stand on occupational standing and musculoskeletal discomfort ...N/A
Sharon Parry	Are school children using standing desks at risk of musculoskeletal discomfort? Evidence from a field study of school children. ...355
David Caple	A focus on dynamic work rather than sit or stand postures ...N/A
David Caple	Cognitive and psychosocial assessment of sit or stand workstations ...77
Sharon Parry	Does occupational standing increase the risk of musculoskeletal discomfort? Epidemiological evidence on the association between occupational standing and musculoskeletal symptoms.
Juliana Zabatiero	Do office workers with musculoskeletal symptoms benefit from the provision of a sit-stand desk? Evidence from a field study

13.30-15.00 Theme: Human and Computer Interaction

Juliana Zabatiero	Australian young children’s use of screen technology at home and in early learning settings...144
Leon Straker	Children’s screen time in a ‘bring your own device’ school: associations with academic performance and sleep. ...67
Margaret Cook	The impact of hand-held technology in the workplace: The challenges for ergonomists ...232

Stream C - Boardroom

11.00-12.30 Theme: Healthcare
Topic: Medical services

Peter Pollnitz	Opening a new hospital and the benefit of hindsight: What worked well and what didn’t ...N/A
Kath Jones	Battling the issue of violence in healthcare: A case study of physical, cognitive, and organisational ergonomics at work...193
Peter Pollnitz	Powering emergency services into the future powered stretchers reduce physical demands and improve safety for paramedics and patients...N/A

Workshop
13.30 - 15.00 Topic: OHS Risk Management

Rodney Powell	OHS Risk Management And Cumulative Manual Task Injury Risks ...N/A
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Stream A & B – Golden Ballroom South and Central

15.45 - 17.00: Topic: Disruptive technology

Rachelle Ornan	Sharing Global Disruptive Trends and Technology ...N/A
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