

Tuesday morning, 13 April 2010

08.30 Registration

09.30 Donald Broadbent Lecture: "Green Ergonomics: embracing the challenges of climate change" by Margaret Hanson, Principal Ergonomist, WorksOut

The challenges presented by climate change, and moving to a lower carbon and lower energy way of living will continue to impact on us all. Business, government, society and individuals all need to consider our responses to some of the most significant challenges of our day. So what might this mean for ergonomics? Might changes in the way we travel, communicate, work, generate energy, produce food, consume goods and deal with waste, produce opportunities for ergonomics? Do we have something to contribute to greening our economy? This talk will present some of these issues, and consider how ergonomists might respond to the challenges and opportunities that are arising.



	1 Applied <i>Westminster Theatre</i> <i>Chair: Steve Shorrock</i>	2 Inclusive design <i>Room CBA0.060</i> <i>Chair: David Golightly</i>	3 Ageing <i>Room CBA0.061</i> <i>Chair: Phil Bust</i>	4 Tom Reilly Memorial <i>Room CBA1.100</i> <i>Chair: Tim Cable</i>
10.20	Alarm review and rationalisation in a high hazard facility. Richard Simcock, Ergonomic Systems Ltd	The importance of context in inclusive design. Eddy Elton, ESRI, Loughborough University	Health, safety and health promotion for older workers. Dr Joanne Crawford, Institute of Occupational Medicine	Introduction: the man and his legacy. Prof Tim Cable (student from 1980s) *
10.45	Use of human modelling software in a commercial design environment: a SAMMIE CAD case study. Dr Philip Day, NCR	A framework for estimating difficulty and exclusion from tasks during inclusive design. David Nery, University of Cambridge	Is age/ageing a risk factor for work-related musculoskeletal disorder? Dr Olanrewaju Okunribido, HSL	The body clock and ergonomics. Prof Greg Atkinson (student from 1980s/90s)
11.10	Break			
	1 Applied <i>Westminster Theatre</i> <i>Chair: Eddie Elton</i>	2 Rail & transport <i>Room CBA0.060</i> <i>Chair: David Golightly</i>	3 Debate <i>Room CBA0.061</i> <i>Chair: Steve Shorrock</i>	4 Tom Reilly Memorial <i>Room CBA1.100</i> <i>Chair: Tim Cable</i>
11.40	Eye fatigue when viewing binocular displays. Dr Richard So, Hong Kong University	Highlighting the presence of emergency level crossing phones in emergency situations. Anna Scott, Human Engineering	Mind the gap: Research and practice in ergonomics and human factors. Dr Steven Shorrock, University of NSW	Ergonomics and football. Dr Barry Dust (student from 1990s)
12.05	How ergonomics makes things better: lessons from and for public engagement. Dr Mark Young, Brunel University	Cognitive work analysis of signalling protection for rail engineering. Dr David Golightly, Nottingham University	DEBATE: This house believes it's time for a shake-up of teaching in ergonomics . Ian Hamilton & John Wilson *	Anthropometric applications of ergonomics. Dr Laura Sutton (student from 2000s)
12.30	Reducing the load: devices to reduce the physical demands of firefighters during a simulated rescue. Karen Henley, Derby University	An optimised process for the development of a performance-critical control device. Dr Mark Edwards, Bombardier Transportation		Thermoregulation and occupational contexts. Dr Warren Gregson (student from 2000s) *
12.55	Lunch			

* no paper in proceedings

Programme changes

Please note that any changes to the programme brought about by author's cancellations are not the responsibility of the Institute.

Notes

Tuesday afternoon, 13 April 2010

14.00 Plenary Lecture: "Keeping it real: the importance of the interface" by Dr Sarah Sharples, University of Nottingham

As ergonomists, it seems intuitive that the design of the interface has a critical impact on the success of a product, whether in a work, leisure or educational environment. However, it is sometimes difficult to demonstrate this importance. This talk will consider examples of work drawn from areas such as virtual reality, pedestrian navigation systems, social networking technologies and transport control interfaces to consider how the design of the interface does contribute to operator performance and satisfaction, and how this interacts with other aspects of cognitive ergonomics and design.



	1 Applied <i>Westminster Theatre</i> <i>Chair: K Tara Smith</i>	2 Transport <i>Room CBA0.060</i> <i>Chair: Mark Young</i>	3 Team dynamics / applied HFI <i>Room CBA0.061</i> <i>Chair: Farah Fenoughty</i>	4 Occupational health & safety <i>Room CBA1.100</i> <i>Chair: Claire Williams</i>
14.50	The design and application of amdat, a heuristic tool to assess adolescent user needs of medical devices. Alexandra Lang, University of Nottingham	Delivering smart driving feedback through a haptic pedal. Dr Stewart Birrell, Brunel University	Development of a tool to predict organisational team performance in process execution. Murray Sinclair, Loughborough University	Enhanced safe riding: preventing accidents in motorcycle mail delivery work. Dr Charlotte Brace, Scott Wilson Ltd *
15.15	Examining the effectiveness of a structured intervention programme among hospital nurses Dr Navah Ratzon, Tel Aviv University *	Developing and promoting alarms and alerts guidance for the rail industry David Pennie, Greenstreet Berman & Ray Wicksman, RSSB	A study of factors leading to sustainable group decisions developed in a creative decision support system Linda Johnstone Sorensen, University of Southampton	Task performance during standing exposure to whole-body vibration William Baker, Loughborough University
15.40	Break			
	1 Applied <i>Westminster Theatre</i> <i>Chair: Joanne Crawford</i>	2 Human factors integration <i>Room CBA0.060</i> <i>Chair: Daniel Johnson</i>	3 Transport <i>Room CBA0.061</i> <i>Chair: Claire Dickinson</i>	4 Occupational health & safety <i>Room CBA1.100</i> <i>Chair: Simon Monnington</i>
16.05	Reach modelling for drive-up self-service. Dr Philip Day, NCR	Ergonomics of ubiquitous computing: how sensor-based interaction influences user performance in simple tasks. Dr Christopher Baber, Birmingham University	Whole-body vibration and trunk rotation: a review of expert opinion. Lauren Morgan, Loughborough University	Work-related lower limb musculoskeletal disorders: a review of the literature. Dr Olanrewaju Okunribido, HSL
16.30	Do we really need another –ist? Guy Osmond, Osmond Group Ltd	The human footprint scoping HFI for generic technology or systems of systems. John Harrison, Hu-Tech Associates	Assessing behavioural adaptation to physical risk. Dr Dianne Haigney, Worcester University	Ergonomics and occupational 'stress': where do we stand? Andrew Baird, University of Derby
16.55	Academic training and practising ergonomists – meeting the needs. Dr Claire Williams, University of Derby	Barriers to successful human factors integration within the military domain. Paul Sirett, SCS Ltd	Developments in the train protection and warning system on the UK railways. Anita Scott, RSSB	University students' view of the design and use of their study environment. Dr Rachel Benedyk, UCL
17.20	Poster Presentations and Drinks Reception in the Exhibition Hall sponsored by Osmond Group Ltd			
18.00	Dinner			
19.45	Quiz Night in the Comus Restaurant sponsored by Taylor & Francis			

Wednesday morning, 14 April 2010

09.15 Plenary Lecture: "Raising safety standards in hazardous industries: a Regulator's perspective" by John Wilkinson, Team Leader, HSE Hazardous Installations Inspectorate

After ten years of developing the inspection and industry approach to human factors in major hazards control and prevention for the onshore chemical and allied industries, this is a regulatory (and personal) reflection on achievements, on what worked and didn't work, current challenges, and a look forward at the next ten years. All of our achievements have substantially raised the profile of human factors in the onshore major hazard industries and also the degree of focused activity in addressing them. There's still a way to go though, in how people think about hazard and risk control, and about accidents and incidents, and this means personal and cultural change on a large scale - so this is not a short-term project.



	1 Creating a learning organisation <i>Westminster Theatre Chair: Farah Fenoughty</i>	2 Hazards <i>Room CBA0.060 Chair: Mike Henshaw</i>	3 Methods & tools <i>Room CBA0.061 Chair: Claire Williams</i>	4 Defence <i>Room CBA1.100 Chair: Huseyin Dogan</i>	5 Construction <i>Room CBA1.098 Chair: Janette Edmonds</i>
10.00	Creating a learning organisation in the healthcare context. Dr Melinda Lyons, NPSA	A human factors roadmap for the management of major accident hazards. Alan J Jackson, HSE	A valid observational data collection system for airport security checkpoints. Lawrence Hay, Booz & Co	Lifejackets in shopping malls? Ergonomics and product design in counter terrorism. Dr Alex Stedmon, University of Nottingham	How can we prevent construction accidents? Dr Charlotte Brace, Scott Wilson Ltd
10.25	Organisational Integrity: Challenging the principle of ALARP. Ian Hamilton, Human Engineering Ltd	A consultant recounts his experience of being in a fire. Andy Brazier, A B Risk Ltd	Evidence-based ergonomics. Dr Joanne Crawford, Institute of Occupational Medicine	An integrated multi-disciplinary research framework. K Tara Smith, HFE Solutions Ltd	Communicating health & safety in construction: use of pictures on construction site posters. Philip Bust, L'boro Univ
10.50	Break				
	1 Creating a learning organisation <i>Westminster Theatre Chair: Martin Anderson</i>	2 Slips, trips & falls <i>Room CBA0.060 Chair: Steve Thorpe</i>	3 Medical <i>Room CBA0.061 Chair: Ken Catchpole</i>	4 Cognitive <i>Room CBA1.100 Chair: Phil Day</i>	5 Psychology <i>Room CBA1.098 Chair: Murray Sinclair</i>
11.20	Developing process safety performance indicators for major hazards industries. Peter Dawson, HSE	Reducing hospital inpatient falls. Mike Williams, University of Exeter	Dignity in distress: managing and moving obese people by working in partnership. Elizabeth Leigh, Southend University Hospital	A sociotechnical framework for situation awareness and decision-making among emergency practitioners. Harris Abd Hamid, Loughborough University	When are you too tired to be safe? The need for a fatigue risk index in ATM. Mr Nuno Cebola, EuroControl
11.45	Organisational learning: who, when and how? Liz Carver, BAE Systems	Improvements to the EN method of mechanical slip resistance test for footwear. Graeme Hunwin, HSL	A tool to measure the success of patient handling interventions across the EU. Michael Fray, Loughborough University	The forensic ergonomics of distraction errors: a computer simulation. Derek J Smith, UWIC	Behavioural modification programmes, the need for a fully integrated approach. Farah Fenoughty, AMEC
12.10	Improving the learning culture. Richard Scaife, The Kiel Centre	Systemic stair step geometry defects, increased injuries, and public health. Daniel Johnson, Jake Pauls Consulting Services	Implementing the WHO surgical safety checklist at a UK hospital. Kim Otterburn, Human Engineering Ltd	Lessons from Stockwell: how a combined accident analysis can inform system design. Dr Daniel Jenkins, Sociotechnic Solutions Ltd	Fluidity of personal boundaries in online social media: implications for netiquette. Damian Ballam, Univ of Wolverhampton
12.35	Lunch				

Wednesday afternoon, 14 April 2010

13.35 Institute Lecture: "The perfect is the enemy of the good: implications for ergonomics research and practice" by Peter Buckle, Professor of Health Ergonomics, Robens Centre for Health Ergonomics

Research, by its very nature, seeks to find 'the truth' or 'the perfect'. But how much perfection do we actually need as practitioners? This Lecture will provide a professional perspective, based on almost 30 years of research and application. It will explore why and where ergonomics and human factors research is undertaken and the impact of this research on application. It will consider what triggers our research, how we reach an understanding of a problem and how this in turn influences our interventions and the evaluation of their efficacy.



14.30	Awards ceremony				
	1 Creating a learning organisation <i>Westminster Theatre</i> <i>Chair: Andy Brazier</i>	2 Slips, trips & falls <i>Room CBA0.060</i> <i>Chair: Steve Thorpe</i>	3 Medical <i>Room CBA0.061</i> <i>Chair: Steve Shorrock</i>	4 Methods & tools <i>Room CBA1.100</i> <i>Chair: K Tara Smith</i>	5 Cognitive <i>Room CBA1.098</i> <i>Chair: Farah Fenoughty</i>
15.00	Learning about 'system resilience' from a hospital bed crisis. Mike Williams, University of Exeter	Intervention to reduce falls on steps. Steve Thorpe, HSL *	Key team behaviours during in situ critical events using behavioural markers. Dr William Riley, University of Minnesota	Automated link analysis using radio frequency identification. Dr Neil Mansfield, Loughborough University	Digital Inclusion: is it time to start taking an exclusion approach to interface design? Mike Bradley, Middlesex University
15.25	Break				
	1 Creating a learning organisation <i>Westminster Theatre</i> <i>Chair: Andy Brazier</i>	2 Defence <i>Room CBA0.060</i> <i>Chair: Murray Sinclair</i>	3 Medical <i>Room CBA0.061</i> <i>Chair: Mike Fray</i>	4 Design <i>Room CBA1.100</i> <i>Chair: Richard Simcock</i>	5 Applied <i>Room CBA1.098</i> <i>Chair: Claire Williams</i>
16.00	Learning from audits. Rob Miles, Offshore Safety Division, HSE	Transition from 'soft' systems to an enterprise knowledge management architecture. Huseyin Dogan, Loughborough Univ	Human factors and ergonomics of patient and client handling incidents. Ruth Boulton, HSE	Hanging ten kilograms of brass from my neck: posture problems in bass saxophonists. Judith Hills, University of Glamorgan	The influences of PPE on the performance of UK firefighters. Panagiotis Sotiriadis, Cranfield University
16.25	Establishing Communities of Practice. Tim Hawley, Arup	Through life capability management: benefits and behaviours. Sofia Ahlberg-Pilfold, Loughborough University	Review of guidelines on entrapment and falls from the use of bedrails. Amy Jones, HSL	Practical application of ergonomics to the development of police body armour. Janette Edmonds, Ergo Innovation (UK) Ltd	Correlation between the fingertip forces exerted during typing and MSD. Dr Navah Ratzon, Tel Aviv University *
16.50	Human factors investigation in the rail industry. Emma Lowe, Network Rail	Reliability of the HFACS-ADF safety classification system. Dr Steven Shorrock, University of New South Wales	Musculoskeletal disorder risk management performance in sonography work in the NHS. Simon Monnington, HSE	Consideration of users in the design of assistive technology and telecare products. Sarah Baverstock, Coventry University	Meet the Editors: John Wilson, Tom Stewart, Roger Haslam
	Following the medical session, the Healthcare Special Interest Group will hold a discussion on health ergonomics				
19.00	Drinks reception in Keele Hall sponsored by Towergate Professional Risks , followed by the Annual Dinner at 20.00				

Notes

Thursday morning, 15 April 2010

	1 Environmental <i>Westminster Theatre</i> <i>Chair: Phil Wickens</i>	2 Organisational <i>Room CBA0.060</i> <i>Chair: Steve Shorrock</i>	3 Physical / occupational health & safety <i>Room CBA0.061</i> <i>Chair: Olanrewaju Okunribido</i>	4 Repetitive strain injury <i>Room CBA1.100</i>
09.30	Ergonomics of the physical environment - international standards: a tribute to the work of Professor Bernard Metz. Professor Ken Parsons, Loughborough University	A study on training interval for computerised emergency operating procedures. Xiaolu Dong, Tsinghua University	Risk factors for musculoskeletal disorders in call centre workers. Dr Gideon de Wet, COPE Ergonomics Ltd	
09.55	Thermal environments for rail passengers. Lisa Kelly, Loughborough University	WORKSHOP: HF Practitioners - is it time to look at who we need on the ground? Richard Simcock, Ergonomic Systems Ltd	The human footprint scoping HFI for generic technology or systems of systems. John Harrison, Hu-Tech Associates	WORKSHOP: The Assessment of Repetitive Tasks (ART) tool. Jeremy Ferreira, HSL *
10.20	Climate indices for outdoor weather conditions. Dr Ju Youn Kwon, Loughborough University		Validation of a multi-factorial model for predicting vehicle discomfort. Dr Neil Mansfield, Loughborough University	
10.45	Break			
11.15	<p>Plenary Lecture: "Ergonomics in extreme environments; an explorer's perspective" by Phil Wickens, remote mountain guide and photographer</p> <p>Lightweight travel in remote locations presents numerous challenges if it is to be carried out both safely and efficiently. Conditions are often challenging, and in the worst cases potentially lethal. Those who operate in polar and mountain environments have to cope with low temperatures, strong winds, high altitudes, sustained damp and desert conditions, which present numerous ergonomic challenges to participants and equipment designers alike. This talk, based on Phil's own expeditions and work, will present the challenges faced by those operating in extreme expedition environments, and aims to facilitate further discussion about the ergonomics of such activity.</p>			
12.00	Closing ceremony			
12.15	Lunch			



Posters

- ◆ Physiological demands of competitive hurling match-play. Kieran Collins, Liverpool John Moores University
- ◆ Ergonomic risk assessment of hospitality industry workers. Dr Deepa Vinay, University of Agriculture and Technology, Pantnagar, Uttarakhand, India
- ◆ The physiological validation of a lab-based soccer-specific training simulation. Tae-Seok Jeong, Liverpool John Moores University
- ◆ The influence of thickness of subcutaneous layer on the EMG signal. Pawel Bartuzi, Central Institute for Labour Protection, Poland
- ◆ Effects of physical and mental workload interaction on human performance. Abdulrahman Basahel, Brunel University
- ◆ Perception of hand-arm vibration: comparison of two tool types and the effect of using a typical anti-abrasion work glove. Erik Lewry, University of Derby

Have a question?

We are here to help you so if you have a question about the facilities, your accommodation, any of the sessions, in fact, anything about the conference, just ask a member of the Secretariat at the registration desk and they'll be able to answer your question or point you in the right direction.

If you have a question about your membership, or you'd like to join the Institute if you're not a member already, then please visit the IEHF membership stand, where someone will be on hand to answer your questions.

(Of course, if you can't think of a question, come along to the Quiz Night on Tuesday evening; they'll be lots of them there.)