

Ergonomics & Human Factors 2026

27-29 April, Nottingham, UK

A stylized city skyline of Nottingham is depicted in the lower half of the image. The skyline includes various buildings in shades of yellow, orange, and teal, a large Ferris wheel, and a silhouette of a figure holding a bow. The background is a dark purple gradient with white stars and a wavy pattern. The text 'Provisional Programme' is centered over the skyline.

Provisional
Programme



Chartered Institute
of Ergonomics
& Human Factors

THANKS

to our sponsors and supporters.



LOOK

for the topics that interest you by checking the sector or domain indicators for each presentation.

Sector key	Manufacturing
Aviation	Maritime
Construction	Medical devices
Defence	Nuclear
Emergency Services	Rail
Forestry	Services & Sport
Healthcare	Transport
High Hazard	Cross-sector

Domain key	Health & Wellbeing
Design	Human-AI Teaming
HF methods & tools	Safe Systems
HF Integration	Technology



Session Room I



09:20 Opening statement by Chief Executive, **Ben Peachey** followed by Welcome Address by the 2026/27 President of the CIEHF, **Fran Ives**, Knowledge Mobilisation Fellow at Keele University

	Sector	Domain	Session 1	Sector	Domain	Session 2	Sector	Domain	Session 3	Sector	Domain	Session 4	Sector	Domain	Session 5
09:50			Understanding Real-World Aviation Maintenance Performance Through Scenario Interviews Saleh Al Wohaibi , University of Nottingham [22]			Monitoring train driver fatigue through operational performance data Rebecca Kearns , University of Southampton [8]			Masterclass 1: Work Domain Analysis, Gemma Read & Paul Salmon , University of the Sunshine Coast			Masterclass 2: Workspace Design, Chris Vincent , BAE Systems Submarines			Integrating Early User Insights in Complex Drug-Device Combination Product Development Sophie Edmonds-Allen , Teva Pharmaceuticals [68]
10:15 (ends 10:40)			Beyond the Lab: Ten-Day Eye-Tracking and Cardiovascular Monitoring in Live Air-Traffic Control Jediah Clark , NATS [129]			Auditory Announcements and Warnings at UK Train Stations: Do They Work? Patrick Waterson , Loughborough University [11]									Development of guiding principles for human performance for the WHO pharmacovigilance strategy Brian Edwards , Husoteria Ltd [48]
													R		

Monday morning

Lunch @ 12:25



	Session 1		Session 2		Session 3		Session 4		Session 5	
	Sector	Domain	Sector	Domain	Sector	Domain	Sector	Domain	Sector	Domain
11:10		Drone swarms: unlocking the potential of human swarm teams Siddharth Shyamsundar, BAE Systems Operations Ltd [5]		Neurodiversity in Safety-Critical Roles: Examining the Lived Experiences of Train Drivers Alice Monk, RSSB [51]		Masterclass 1: Work Domain Analysis		Masterclass 2: Workspace Design		IEC/TR62366-2:2016 Medical devices: Guidance on the application of usability engineering to medical devices. A panel discussion on upcoming changes with Natalie Shortt, Ensera Design (UK) ; Marcella Makowski, Fresenius Medical Care (Germany) ; Wayne Ho, Healthcare Human Factors (Canada) ; Torsten Gruchmann, Use-Lab GmbH (Germany)
11:35		The Identical Error paradox in aviation maintenance - more errors for safer outcomes Kevin Hayes, Airbus [38]		Using the COM-B Model to Improve Safety Reporting by Railway Track Workers Jana Mihulkova & Sam Waters, Risktec Solutions Ltd [56]						
12:00		Assessing System Safety Risks in LH2-Powered Aircraft Ground Operations Samarth Burande, Cranfield University [134]		Asleep on the job: transforming fatigue risk management in UK rail Anna Vereker, RSSB [127]						Open discussion on working with CIEHF
(ends 12:25)									R	

Monday afternoon

Session Room I

13:30

(ends
14:30)



Institute Lecture: [Russell Porter, Head of Future Flight Engagement at NATS](#). Russell will talk about the future of flight, what it might mean for us as passengers, as designers and human factors experts. The aviation industry is changing fast, and Russell is well placed to provide insights into that world. He'll talk about increasing demand, competing pressures, new technologies, and changing roles for us humans. Having spent the bulk of his career working in the Human Factors of Cockpit Design and later Air Traffic Control, Russell also hopes to share the most important skills he learned, explaining how he continues to use them today.

Evening unmissables

Made available by



The University of
Nottingham

Driving simulator

Fool your senses in a realistic full-size car! Drop in 17:15-19:15.



VR suite

Experience new worlds through cutting-edge technology.
Bookable sessions 17:30-18:30 and 19:00-20:00.



Whenever suits you, take a walk through the lovely landscaped campus, with a map as your guide.

Outdoor trail

Monday from 17:15



Session Room I			
No	Sector	Domain	
14:30 Just-a-minute poster session	1		Guidelines for the Development of Care Robotics: A Human Factors Perspective Dylan Cooper, University of Nottingham [4]
	2		Using Walk-Through Talk-Through to Understand Work-as-Done in Ambulance Care Ross Wyatt, NHS Surrey Heartlands Integrated Care Board [16]
	3		Human-Centred Evaluation Approaches for Autonomous Agents: From Review to Practice Benjamin Bowers, University of Nottingham [29]
	4		Lessons in Adversity: Adapting Methods for Assessments of Colour Perception Nicola Hill, BAE Systems [41]
	5		Task Screening Methodology – A Consistent Approach to Proportionate Human Factors Assessment Hannah Lewis-Smith, AtkinsRealis [45]
	6		Trust in Avatars for financial transactions Phil Day, NCR Atleos [52]
	7		Exploring Feedback using Ambient Lighting to Improve Driver Attention Catherine Harvey, University of Nottingham [54]
	8		The Human Component of Safety in Defence Georgina Mason, Dstl [67]
	9		Vacuum lift pilot to reduce physical workload in cargo break-down operations Gonny Hoekstra, Technical University Delft [74]
	10		Learning Reviews: A Temporal Handling of the Open-Ended Challenge of Safety Paul Davison, PPWD Consulting Ltd [79]
	11		The risk of moving – using risk analysis to develop simulation centre policy Sally Scott, NHS Lanarkshire Medical Education Centre [80]
	12		Optimizing Human Factors in Three-Person Resuscitation Teams Chun Kit Jacky Chan, Hong Kong Metropolitan University [82]
	13		Multi-Sensory Inclusive Design: Designing for every body Natasha Fosker, Crux Product Design [95]
	14		Get a Grip – Scientific Communication of Human Factors to the Next Generation Ella-Mae Hubbard, Loughborough University [104]
	15		Predicting workload in railway signalling Megan Thurgood, Iarnród Éireann Irish Rail [110]
	16		“Think Twice, Cut Once”: Interview Study Examining Non-Technical Skills in Forestry Operations Sofia Johansson, University of Aberdeen [122]
	17		The Digital Future of Human Systems Integration Trevor Dobbins, STResearch Ltd [128]
	18		Sociotechnical factors influencing a digital early warning system: A qualitative interview study Maeve Moran, Trinity College Dublin [136]
	19		Understanding the Future Electromagnetic Environment Through a Futures Thinking Approach Matthew Webster, Loughborough University [138]

Monday afternoon

	Sector Domain	Session 1	Sector Domain	Session 2	Sector Domain	Session 3	Sector Domain	Session 4	Sector Domain	Session 5
15:30	 	Mapping an ideal sociotechnical safety management system for remotely piloted aircraft systems Samantha Jackson, University of the Sunshine Coast [32]	 	Monitoring train driver alertness in GB railway: insights from live industry trial Kirsten Huysamen, Rail Safety and Standards Board [55]	 	Exploring the critical decision method for usability evaluation Yiyao Li, University of Nottingham [63]	 	Adversarial design thinking for organisational architecture Richard Farry, QinetiQ [33]	 	Developing a human factors integration guideline for road transport systems Zohre Abedi, University of the Sunshine Coast [143]
16:00		Factors shaping the passenger experience in advanced air mobility: insights from literature Lamyea Ahmed, University of Birmingham [83]		Understanding and mitigating MSD risks faced by frontline rail-staff using wearable technology Simon Carpenter, Transport For Wales [81]		A European framework for measuring children's anthropometry and guidelines for their use Enda Fallon, University of Galway [113]		Human factors trade-offs: a case study in high-hazard environments Fay Dixon, Tetra Tech RPS [61]		Secure-by-design through integrated security, safety and human factors Eylem Thron, Mima Group [85]
16:25		Enhancing pilot performance with modern glass cockpits in aviation Samarth Burande, Kingston University [120]		Human factors for rail traffic management David Golightly, Newcastle University [141]		Applying human factors to the manufacture of pyrotechnics Anita Weltz, Risktec Solutions [139]		Designing for constructability Clare Pollard, AWE - Nuclear Security Technologies [89]		
16:50 (ends 17:15)		Evaluation of VR and motion for upset prevention & recovery training Muhammad Akhtar, Uni of B'ham [121]		Beyond the cab: embedding HOF in depot design, operation and maintenance Sofia Ahlberg Pilfold, Pendyne Ltd [93]				Thresholds of care: ergonomic bedroom design in secure environments Jaide Mead, West London NHS [35]		



Session Room I

09:00

Keynote: Human performance in British bobsleigh & skeleton competition. A fireside chat with [Natalie Dunman](#), Performance Director at the British Bobsleigh & Skeleton Association and [Amelia Coltman](#), elite skeleton athlete, led by [Paul Davison](#), PPWD Consulting.

Discussion will include:

- The human fit with equipment, cold constraints, training load and injury management.
- Dynamics of relationships with coaches, teammates, competitors and performance leaders.
- Psychology of cognitive load, pressure, stress, confidence and identity.

(ends
09:40)



#ciehf



#ehf2026



#ehfcareers

Let's generate some noise on social media!

Post your photos and thoughts. Like and comment on our posts, tag us and we'll do the same for you.



	Sector Topic	Session 1	Sector Domain	Session 2	Sector Domain	Session 3	Sector Domain	Session 4	Sector Domain	Session 5
09:55		Creating design personas to support a National Medicines Safety Improvement Programme Gill Gookey, Health Innovation East Midlands [13]		Human-AI interaction on roads. Exploration and discussion of rapid technological change in the road sector Claire Williams & Annabel Moore, WSP ; Barbro Arnes & Owen McCulloch, RSSB		Hierarchical task analysis to understand impacts of new technologies on level crossings Gemma Read, University of the Sunshine Coast [25]		The 2017 Manchester Arena Bombing: A sociotechnical systems analysis Patrick Waterson, Loughborough University [19]		Towards empathic machines: introducing the empathy evaluation questionnaire (EEQ) Ben Baldwin-Anyasodo, Univ of Nottingham [28]
10:20		Predicting nursing staff requirements: How can we improve decision support tools? Rich McIlroy, University of Southampton [72]				Utilisation of multi-actor human-in-the-loop rail simulation to examine the impact of ATO-GoA2 Sarah Kusumastuti, University of Twente [59]		A data-driven fatigue management system dashboard for paramedic services Marcus Yung, Canadian Inst for Safety Wellness & Performance [75]		Beyond SHELL: Integrating self-consciousness into human factors systems (the SSHELL framework) Astha Gill, ISE [64]
10:45		The Out-of-Hours Review: From work systems analysis to recommendations and beyond Eva-Maria Carman, Trent Sim & Clinical Skills Centre, Nott Univ H T [103]				Passenger congestion management in metro stations: risks, strategies and system-based modelling Yusra Mustafa, Newcastle University [140]		Influence of information source and environmental cues on decision-making during flood evacuation Razan Aldahlawi, Univ of Nottingham [34]		Two Case Studies Demonstrating the 'Psychological Imperative' for Safety Critical Task Analysis Nick Taylor, Hu-Tech [36]
11:10 (ends 11:35)		CRM-oriented resilience assessment for healthcare teams Thomas Mühlbradt, FOM University of Applied Sciences [44]				Human centred rail freight preparation for decarbonisation and climate resilience David Golightly, Newcastle University [142]		The first empirical test of human factors integration in frontline policing Adam Pace, University of Derby [118]		Distractibility of in-vehicle infotainment systems: an end-user toolkit Raechael Wynne, University of Newcastle [101]



Session Room I

12:00

Keynote: [Lucy Easthope, Professor in Mass Fatalities and Pandemics at the University of Bath](#), in a fireside chat with [Professor Paul Salmon, University of the Sunshine Coast](#)

Lucy is a leading UK expert on emergency planning and disaster recovery. Since 2001, she has served as a tactical adviser to UK disaster responders, working on major crises such as the 2004 tsunami, 9/11, the Salisbury poisonings, Grenfell, the Covid pandemic and the war in Ukraine. Her research and practice focuses on mass fatalities planning, legal aspects of emergencies, lessons learned after major incidents, public inquiry effectiveness, interoperability and community resilience. She challenges traditional thinking about how we recover from tragedy and how best to prepare for what comes next.



Evening unmissables

Tuesday @ 18:30

Smart dress (black tie optional)



Awards Ceremony

Recognising excellence
in the community

Drinks Reception



Annual Dinner

Fine dining and wine



	Sector	Domain	Session 1	Sector	Domain	Session 2	Sector	Domain	Session 3	Sector	Domain	Session 4	Sector	Domain	Session 5
14:00			Applying a resilient lens to healthcare investigation Rebecca Doyle, Health Services Safety Investigations Body [46]			Cognitive Work Analysis and Allocation of Responsibility in AI systems Chris Baber, University of Birmingham [20]			Masterclass 3: Human Reliability Analysis, Ned Hickling			Masterclass 4: Physical Ergonomics, Matt Birtles, HSE			Maritime Teams' Safety Performance During Hazardous Operations, and Possible Mitigation Mike Tainsh, BAE Systems, Maritime [1]
14:25			System analysis of using centralised monitoring for safer intrapartum maternity care Zoe Munson, Loughborough University [91]			Using AI-Generated Videos and Storyboards as Elicitation Prompts in Human Factors Research Catherine Harvey, University of Nottingham [26]									Designing Human-Centred Interventions for Inclusive Cyber Security in a Medium-Sized UK Organisation Elzbieta Titis, University of Warwick [23]
14:50 (ends 15:15)			Human Factors in the development of a National Medicines Safety Improvement Programme Gill Gookey, Health Innovation East Midlands [14]			In the Moment: trustworthiness and delegation to AI Agents Suzy Broadbent, Dstl [30]									Laboratory Surrogate Hammer-Drilling for Reproducible Testing of Design Effects Susanne Sutschet, Karlsruhe Institute of Technology [78]



	Sector	Domain	Session 1	Sector	Domain	Session 2	Sector	Domain	Session 3	Sector	Domain	Session 4	Sector	Domain	Session 5
09:00			Quality versus safety in healthcare – a national debate for patient care Nick Woodier, Health Services Safety Investigations Body [9]			Electronic Procedures - will they work for you? Adrian Wheatley, Wheatley Consulting Ltd [7]			Masterclass 5: Supervisory Control, Ron McLeod			Masterclass 6: Effective Communication, Shelley Stiles, Gateway Consultants (HSW) Ltd			Health & Wellbeing
09:25			Safety Procedures in Invasive Procedures: A Case Study in Endoscopy Alexandra Lang, University of Nottingham [100]			Advanced Reactor Technologies – do we need to still worry about the human? Farah Fenoughty, Amentum [115]									
09:50 (ends 10:15)			Redesigning India's Sexual Assault Medico-Legal Form through a Trauma-Informed Lens Kush Bandwal, National Institute of Design, India [98]			Future Energy Scenarios: Managing Human Factors Risks in Control Room Operations Ailsa Peron, Frazer-Nash Consultancy Ltd [99]									Workability in later career stages: A new, more comprehensive framework Carolin Bontrup, Zurich University of Applied Sciences [90]

	Sector	Domain	Session 1	Sector	Domain	Session 2	Sector	Domain	Session 3	Sector	Domain	Session 4	Sector	Domain	Session 5
10:45			Understanding the impact of respiratory function monitoring in neonatal monitoring Alexandra Lang, University of Nottingham [102]			Information chunk similarity in nuclear power monitoring: a cognitive bias effect paradigm Xiaoli Wu, Nanjing University of Science & Technology [50]			Masterclass 5: Supervisory Control			Masterclass 6: Effective Communication			DOSE (Database of Occupation-Specific Exposures): Development and case example Marcus Yung, Canadian Institute for Safety, Wellness, & Performance [73]
11:10			Enhancing radiology Safety through bias awareness and human factors learning Rachel Magennis, SMS [133]			Benefits of using visual engineering to support human factors assessments Laura Poad, Amentum [66]									The effects of ergonomics in the hair & beauty industry Janie Tongue [124]

Session Room 1

11:35

Broadbent Lecture: [Fiona Earle, Professor of Psychology at the University of Hull](#)

Fiona has over 25 years' experience of Human Factors and Occupational Psychology, working within the complementary settings of academia and industry. She's a Chartered Occupational Psychologist and the founder of the Centre for Human Factors. Her interests are broadly based in the areas of workplace stress and fatigue. She's worked with clients across a broad range of sectors, including the energy sector, local government, NHS and emergency services.



12:25
(ends 12:35)

IEA2027

Launch: [Professor Andrew Thatcher, International Ergonomics Association President](#)

Wednesday afternoon special sessions

Session Room I

15:05 Future strategy for human factors - a panel session led by [Professor Paul Salmon](#) and involving [Professor Andrew Thatcher, IEA President](#)

Discussion will focus on six areas:

- Defining our discipline: what human factors presents, what constitutes high quality work.
- Building our capability: provision of and access to high quality education and training.
- Demonstrating our value: robust cost-benefit analyses, valid evidence of impact, clear value proposition.
- Optimising our tools: provision of a proven set of fit-for-purpose methods, bridging research-practice gap.
- Bridging our boundaries: enhancement of engagement and integration with other disciplines.
- Enhancing our visibility: evidence-based marketing and communication of success stories.



16:20 Closing address by [Ben Peachey, Chief Executive, CIEHF](#)

16:30 End of conference