

## PROGRAM

### PEROSH 2025 – 6<sup>th</sup> Research Conference, Manchester

Venue: Core Technology Facility, 46 Grafton Street, Manchester, M13 9NT, United Kingdom

*The names in red in a light orange box are of those competing for the early-stage researcher award.*

#### September 9th, 2025, Preliminary Day

**13:00-16:00** PEROSH Steering Committee meeting

**14:00-18:00** Registration desk open

**19:00** **Networking Dinner**  
Manchester Museum, Oxford Road, Manchester, M13 9PL



*Image courtesy of Marketing Manchester*

**September 10<sup>th</sup> 2025 Research Conference**

**08:30-09:00** Registration

Moderator of the day: Andrew Curran, Director of Science and Chief Scientific Adviser, HSE

**09:00-09:15** Welcome by Andrew Curran

**09:15-09:30** Welcome by Margrethe Schønning, STAMI, Norway, and chair of the PEROSH Scientific Steering Group

**09:30-10:00** Keynote 1: European Collaboration as a Pathway for Societal Impact and Academic Excellence, Steffen Bohni Nielsen, Director General of the Danish National Research Centre for the Working Environment – NFA, member of the Danish Research and Innovation Council and Chairman of PEROSH

**10:00-10:30** Keynote 2: Health Work and Wellbeing. Where are we now? Professor Dame Carol Black, former principal Newnham college, Cambridge

**10:30-11:00 Coffee and tea break**

	<b>Disruptive innovations in OSH</b> <i>Chair: Derek Morgan</i>	<b>New and Emerging OSH risks in the workplace</b> <i>Chair: Yiqun Chen</i>	<b>Chemical Safety Now and in the Future: Navigating Emerging Risks</b> <i>Chair: David Johnson</i>
11:00	Virtual tour experience in OSH training: a case study for LOTO procedure <i>Alessia Williams (INAIL)</i>	Precarious work, psychosocial working conditions and job satisfaction as predictors of employee's wellbeing: what matters most <i>Szymon Warszawski (CIOP-PIB)</i>	Hydrogen Carrier Gas in GC-MS: A Sustainable Alternative to Helium for measuring PAHs in the Workplace <i>Godswill Akhigbe (HSE)</i>
11:20	Extended Reality in Ergonomics - Training with own Avatar <i>Norbert Lechner (AUVA)</i>	ALgorithmic Management & Artificial Intelligence (ALMA-AI) systems as a new form of work organization: Psychosocial factors and implications for OSH based on statistical evidence in regular work. <i>Mairi Bowdler (TNO)</i>	Occupational exposure to micro- and nanoplastics in a plastic bottle recycling facility in Norway <i>Øyvind Pernell Haugen (STAMI)</i>
11:40	Chatbot as a support tool for accessing information on PPE – pilot <i>Agata Kmiecik (CIOP-PIB)</i>	Influence of climate change on the exposure to vectors that transmit infectious diseases at workplaces <i>Raquel Herencia Romero (INSST)</i>	Permeability of hazardous agents in cooling lubricants after application of occupational skin protection products <i>Magdalena Metzger (AUVA)</i>
12:00	An on-line OSH data exchange system for compliance <i>Antonis Targoutzidis (ELINYAE)</i>	From Flexibility to Fragility: Occupational Hazards in Platform Work <i>Adrian Todolj-Signes (SAWEE)</i>	Challenges and chances for occupational safety and health in circular economy <i>Nicoletta Godas (BAuA)</i>

	<b>Disruptive innovations in OSH</b> <i>Chair: Derek Morgan</i>	<b>New and Emerging OSH risks in the workplace</b> <i>Chair: Yiqun Chen</i>	<b>Chemical Safety Now and in the Future: Navigating Emerging Risks</b> <i>Chair: David Johnson</i>
12:20	SOFTEMA: A tool to assist in the development of safety-related application software for machines” <i>Albert Bohlscheid (IFA)</i>	Digital transformation: organisational resilience for managing new emerging OSH risks <i>Edvige Sorrentino (INAIL)</i>	Control of risk from stone dust containing high levels of crystalline silica <i>Chris Keen (HSE)</i>
12:40	Innovative tools in OSH info-training: Inail-Dimeila casestudies on road safety and climate change <i>Emma Pietrafesa (INAIL)</i>	Examining the expansive object of safety professionals’ work in Finland <i>Riikka Ruotsala (FIOH)</i>	PEROSH-International Comparison of Sampling Strategies - Hazardous Substances (PEROSH-ICSS-HS) – an explorative feasibility study and first results with airborne wood dust <i>Christina Samel (IFA)</i>

### 13:00-14:00 Buffet Lunch

	<b>Disruptive innovations in OSH</b> <i>Chair: Derek Morgan</i>	<b>New and Emerging OSH risks in the workplace</b> <i>Chair: Yiqun Chen</i>	<b>Chemical Safety Now and in the Future: Navigating Emerging Risks</b> <i>Chair: David Johnson</i>
14:00	Evaluation of the load on bicycle delivery services using the 3D-musculoskeletal-model "Myonardo" <i>Norbert Lechner (AUVA)</i>	Silence and Cultures of Silence in Working Life <i>Annette Nylund (SAWEE)</i>	Embedding Behavioural Safety in the Green Transition: A Participatory Approach to Reducing Biological Exposure among Waste Collection Workers <i>Marie Svensmar Krag (NFA)</i>
14:20	Ergonomic Challenges of Working with Display Screen Equipment <i>Joanna Kamińska (CIOP-PIB)</i>	Downsizing and mental distress <i>Eirik Degerud (STAMI)</i>	Development of high-volume personal aerosol sampler <i>Marcel Dörr (IFA)</i>
14:40	From Past Insights to Future Challenges in the Age of Digital Transformation: A Scoping Review on Labour Inspectors <i>Swantje Robelski (BAuA)</i>	Ethical and legal challenges on the use of artificial intelligence management of workers <i>Adrian Todolí-Signes (SAWEE)</i>	Occupational exposure and inflammatory potential of bioaerosols in the food industry <i>Christine Darbakk (STAMI)</i>
15:00	Adopting occupational exoskeletons: from initial interaction to long-term use <i>Liên Wioland (INRS)</i>	Risk Assessment Approach for Industrial AI Systems Based on Established Industry Methods – First Steps <i>Colin Chambers (HSE)</i>	Sentinel Network of Oncology Specialists for Detecting the Occupational Origin of Paranasal Sinus Cancer Cases <i>Carina Liarte Zwaan (INSST)</i>

	<b>Disruptive innovations in OSH</b> <i>Chair: Derek Morgan</i>	<b>New and Emerging OSH risks in the workplace</b> <i>Chair: Yiqun Chen</i>	<b>Chemical Safety Now and in the Future: Navigating Emerging Risks</b> <i>Chair: David Johnson</i>
15:20	Improvements in the determination of diisocyanates using a new gradient elution HPLC methodology <i>James Forder (HSE)</i>	How Fraud and Undeclared Work Degrade Work Environments and Exploit Workers across Different Industries: A Literature Review <i>Monica Kaltenbrunner (SAWEE)</i>	Addressing emerging challenges in the surveillance of occupational cancer: the Italian model of integrated monitoring systems <i>Alessandro Marinaccio (INAIL)</i>
15:40	Balancing Accuracy and Wearability: Sensor Configuration Strategies for Real-World Near-Fall Detection <i>Moritz Schneider (IFA)</i>	The Futures 2 project: a comparative analysis of PEROSH researchers priorities and national OSH strategies to assess the impact of health, social and economic changes on future research. <i>Bruna Maria Rondinone (INAIL)</i>	Using Drones to Apply Plant Protection Products: work to understand potential exposure routes and risks to operators <i>Tony Wilson (HSE)</i>

**16:00-16:30 Break**

**16:30-17:00** Keynote 3: The Health and Occupation Research (THOR) network: 35 years of occupational disease data in the UK, Professor Martie van Tongeren, University of Manchester

**17:00-17:30** Keynote 4: NIOSH under constraints: what's at stake for occupational health & safety? Lyne Sauvageau, Chief Executive Officer of the Robert Sauvé Research Institute in Occupational Health and Safety (IRSST)

**18:00 Drinks and Nibbles**

Eighteenth floor, Hyatt Regency Manchester, 55 Booth St W, Manchester, M15 6PQ



Image courtesy of Marketing Manchester

**September 11<sup>th</sup> 2025 Research Conference**

**8:00** Registration desk open

	<b>Disruptive innovations in OSH</b> <i>Chair: Derek Morgan</i>	<b>New and Emerging OSH risks in the workplace</b> <i>Chair: Yiqun Chen</i>	<b>Chemical Safety Now and in the Future: Navigating Emerging Risks</b> <i>Chair: David Johnson</i>
09:00	Discovering Safety's Construction Risk Library - A knowledge tool to support design risk treatment on construction projects <i>Steven Naylor (HSE)</i>	Lessons Learned from the COVID-19 Pandemic for Occupational Safety and Health; An International Comparison <i>Robert Ljung (SAWEE)</i>	How to reduce the constantly rising climate risk due to solar UV-exposure in occupational settings at high risk <i>Claudine Strehl (IFA)</i>
09:20	OSH for All? Exploring the Role of LLM-based Chatbots in Enhancing Access to Health and Safety Information <i>Swantje Robelski (BAuA)</i> <i>Marie Jelenko (AUVA)</i>	What about the effects of climate change on workers' health? <i>Angeles de Vicente (INSST)</i>	Potential exposure to airborne nanomaterials generated from 3-D printing processes <i>Fabio Boccuni (INAIL)</i>
09:40	Smarter Regulatory Sandbox - exploring opportunities to improve health and safety using AI and technology <i>Helen Balmforth (HSE)</i>	Sick leave and occupational status. A decomposition analysis from Norway. <i>Ståle Østhus (STAMI)</i>	Design and investigation of a high flow respirable sampler <i>Dzmitry Misiulia (University of Kaiserslautern-Landau; on behalf of IFA)</i>
10:00	Workers' Participation, Representation and Prevention in the Digital Era: Evidence from National Case Studies <i>Giuliana Buresti (INAIL)</i>	The Impact of Remote Work on Gender Equality in the Labour Market: Quantitative Findings from Sweden and a Systematic Review of International Research <i>Johan Stenmark (SAWEE)</i>	MCDA-assisted chemical alternatives assessment based on input data generated using the SSbD toolbox <i>Eero Lantto (FIOH)</i>
10:20	AI-supported electron microscopy analysis of occupational asbestos exposure concentrations: Needs and state of play <i>Keld Alstrup Jensen (NFA)</i>		

**10:40-11:00 Coffee and tea break**

Moderator of the day: Andrew Curran

**11:00-11:30** Keynote 5: EU-OSHA; a new strategy and new ambitions, William Cockburn Salazar, Executive Director of the European Agency for Safety and Health at Work, Bilbao, Spain

**11:30-12:00** Keynote 6: Current Occupational Health Challenges in South Africa, with a Focus on Psychosocial Risks. Professor Spo Kgalamono, NIOH Executive Director, South Africa

**12:00-12:15** Announcement winner of the early-stage researcher award

**12:15-12:30** Conclusion and closing of the conference