

NES 2022 Work Well – Ergonomics in an unpredictable world

Sunday, 23 October

17:00	Registration opens
19:00	Get-together session

Monday, 24 October

08:00 - 09:00	Registration
09:00 - 09:15	<p>Welcome address and opening ceremony <i>Denis A. Coelho, NES President and Cecilia Österman, EHSS President</i></p>
09:15 - 09:45	<p>KEYNOTE Digitalisation and the work environment <i>Åsa Cajander, Professor of human-computer interaction, Uppsala University</i></p>
09:45 - 10:15	<p>KEYNOTE Human Factors in the age of autonomous systems <i>Ole Andreas Alsos, Associate professor of interaction design, Norwegian University of Science and Technology (NTNU)</i></p>
10:15 - 10:30	Coffee break

Session 1	ROOM: Gamla salen	ROOM: Strömsholm	ROOM: Inre läsrummet
10:30 - 12:00	<p>Occupational safety and health management <i>Chair: TBA</i></p>	<p>Transport systems <i>Chair: Anna-Lisa Osvalder</i></p>	<p>WORKSHOP: Using fatigue failure based exposure assessment tools to evaluate the risk of distal upper extremity MSDs <i>Sean Gallagher, USA & Peter Johansson, Sweden</i></p> <p>This workshop will provide some background regarding fatigue failure theory, introduce the new risk assessment tools and provide hands-on analysis of the Distal Upper Extremity Tool (DUET)</p>
	Managers organisational and social work environment during the pandemic in Sweden <i>Rachael Berglund, Sweden</i>	Safety and human factors implications of RPAS introduction in controlled airspace: a case study <i>Vittorio Sangermano, Italy</i>	
	Organisational capabilities for developing the system operator role in the Norwegian power grid <i>Asgeir Drøivoldsmo, Norway</i>	Training non-technical competences - potential benefits and perceived needs for improvement <i>Karolina Stark, Sweden</i>	
	Development of OSH Management through Employer Commitment and Employee Representation <i>Georgi Hrenov, Estonia</i>	A roadmap for UX in rail: Changing tracks in train traffic research <i>Mikael Laaksoharju, Sweden</i>	
	Leadership quality - video-assisted work analysis of leaders' behaviours <i>Simon Elvnäs, Sweden</i>	Transferring tacit knowledge among operators in safety-critical systems <i>Rikard Eklund, Sweden</i>	
	With the stable as a workplace – about attractive, healthy and sustainable employments in the Swedish equine sector <i>Åsa Bergman Bruhn, Sweden</i>	How human skills and technology overcome accidents in space (Apollo 13), in the air (US Airways 1549) and on land (San José Mine) building systems resilience <i>Josue Franca, Brasil</i>	

12:00 - 13:00

Lunch break

Session 2

ROOM: Gamla salen

ROOM: Strömsholm

ROOM: Inre läsrummet

13:00 - 14:30

SPECIAL SESSION: Activity-based work environments – Perspectives on the implementation process and employee well-being
Chair: Annu Haapakangas, Finland

Physical ergonomics
Chair: Liyun Yang

SPECIAL SESSION: A user-centered product development and evaluation of an equipment vest with integrated ballistic protection for the Swedish police force
Chair: Louise Bæk Larsen

Users' insight of what promotes or hinders health among office workers
Ulrika Florin, Sweden

Importance of good working gloves - ErgoSleeve in validating the gloves and measuring arm muscle load
Riitta Simonen, Finland

A user-centered product development and evaluation of an equipment vest with integrated ballistic protection for the Swedish police force– a participative project
Louise Bæk Larsen, Sweden

Effects of workplace change on work engagement and perceived work-environment fit – The role of change management
Pia Sirola, Finland

A comparative study regarding noise and hand-arm vibration exposure during self-compacting and conventional concrete casting
Inga Mikhaltchouk, Sweden

Vest design and development process
Linéa Stenfors, Sweden

The important process when relocating to activity-based workplaces
Eva Bergsten, Sweden

An objective approach for assessment of hand-arm vibration dose
Guilherme Elcadi, Sweden

Pressure measurements between shoulders and vest- Method
Roy Tranberg, Sweden

Tools for creativity in co-design workshop – Applying participatory design process to support workplace satisfaction and need-supply fit formation
Piia Markkanen, Finland

Home office ergonomics in Estonia,
Triinu Sirge, Estonia

Pressure measurements between shoulders and vest- Result
Louise Bæk Larsen, Sweden

Office use, well-being at work and perceived effects of office transformation – Differences between four work profiles
Annu Haapakangas, Finland

Application of low-cost accelerometers in risk assessment of low back pain due to whole body vibrations
Pasan Hettiarachchi, Sweden

Usability evaluation of an equipment vest with integrated ballistic protection
Kristina Eliasson, Sweden

Interactive individual ergonomic report as means for risk assessment and ergonomic education among surgeons
Melanie Hensel, Sweden

Physical activity patterns among uniformed police officers
Peter Johansson, Sweden

Effects of an equipment vest without integrated ballistic protection as a rehabilitation measure for police officers with low back pain
Teresia Nyman, Sweden

14:30 - 15:00

Coffee break

	ROOM: Gamla salen	ROOM: Strömsholm	ROOM: Inre läsrummet
Session 3 15:00 - 16:00	NES Student Prize session <i>Chair: Kristina Eliasson, Sweden</i>	SPECIAL SESSION: The European Work Environment Authorities <i>Chair: Elin Vidlund, Sweden</i>	SPECIAL SESSION: Occupational health challenges in the Arctic <i>Chair: Jens Wahlström, Sweden</i>
	Visor adapted for headlamps, for ear-nose-throat doctors <i>Gustav Brogren, Sweden</i>	Ergonomic Risk Management Strategy in Ireland: A focus on Risk Exposure reduction <i>Frank Power, Ireland</i>	Cold exposure and MSD – a prospective population-based study <i>Charlotte Lewis, Sweden</i>
	Sole entrepreneur's networking and wellbeing at work at the Savo region <i>Piia Kauhanen, Finland</i>	Prevention of MSDs by collaboration among organisations and stakeholders at EU-level <i>Minke Wersäll, Sweden</i>	Nordic Co-operation for promoting occupational health and safety (OHS) research and education in the Arctic <i>Hans Pettersson, Sweden</i>
		SLIC Campaign 2022 <i>Kersti Lorén, Sweden</i>	Carpal tunnel syndrome and cold exposure – a population based study <i>Jens Wahlström, Sweden</i>
		'Healthy Workplaces Lighten the Load' Swedish Work Environment Authority shares learnings from inspection activities during the European Weeks for Healthy Workplaces Campaigns 2020-2022 <i>Elin Vidlund, Sweden</i>	
16:00 - 17:00	NES Annual General Meeting		
19:00	Conference dinner at Norrlands Nation NES Student Prize Winner announced		

Tuesday, 25 October

08:30 - 09:00

KEYNOTE Meet the world – the extended family tree of the Ergonomics and Human Factors professional
Cecilia Berlin, Associate professor of production ergonomics and socially sustainable workplace design, Chalmers University of Technology

09:00 - 09:30

KEYNOTE Research and development for future working life
Magnus Svartengren, Professor of occupational and environmental medicine, Uppsala University

09:30 - 10:00

Coffee break

Session 4
10:30 - 12:00

ROOM: Gamla salen	ROOM: Strömsholm	ROOM: Inre läsrummet
Advanced risk management tools <i>Chair: Liyun Yang</i>	Ergonomics in healthcare <i>Chair: TBA</i>	Human factors in design <i>Chair: TBA</i>
Improving safety culture in occupational contexts: an actionable toolkit <i>Gabriella Duca, Italy</i>	Management of well-being at work in large Finnish healthcare companies according to corporate social responsibility reports <i>Päivi Kekkonen, Finland</i>	Building Safety into the Lifecycle: the potential for Building Information Modelling (BIM) to Enhance Occupational Health and Safety <i>Catherine Trask, Sweden</i>
A usability study of the SRA Index (Sustainable Risk Awareness Index), a KPI for Management Support <i>Helena Franzon, Sweden</i>	Digitalisation in primary healthcare - the barriers and facilitators for digital patient- and work management to work well <i>Susanne Frennert, Sweden</i>	Ergonomic evaluation and social construction of a petroleum refining unit project (in times of a pandemic) <i>Cynthia Alhadeff, Brazil</i>
The RAMP 2.0 project – Towards an enhanced MSD risk management tool <i>Linda M Rose, Sweden</i>	Meeting the Challenges of Home Care in Small Residential Bathrooms: Creation of the Bathroom Aid Inventory <i>Brenda Rodrigues Coutinho, Sweden</i>	Ergonomics early in the design phase at Scania <i>Kerstin Tegbrant, Sweden</i>
Systematic risk management with RAMP for risk assessment and adapted changes - an implementation study <i>Mikael Forsman, Sweden</i>	Digitalization of home care and home care nursing during the Covid-19 pandemic: initial findings <i>Christofer Rydenfält, Sweden</i>	Building information modelling and integration of occupational health and safety in construction project design <i>Kari Anne Holte, Norway</i>
Results from biomechanical risk assessment aboard fishing vessels <i>Francesco Draicchio, Italy</i>	Can journey mapping be used to visualize information sharing in home care? <i>Johanna Persson, Sweden</i>	Comfort, seat belt fit and misuse for older adults when travelling in cars <i>Melina Makris, Sweden</i>
		Evaluation of comfort and fit of personal protective equipment <i>Anna-Lisa Osvalder, Sweden</i>

12:00 - 13:00

Lunch break

Session 5 13:00 - 14:30	ROOM: Gamla salen	ROOM: Strömsholm	ROOM: Inre läsrummet
	SPECIAL SESSION: Work well – by improving working condition after risk assessment with reliable technical methods <i>Chair: TBA</i>	Modern digitalisation technologies <i>Chair: Steven Mallam</i>	Methods in ergonomics <i>Chair: Petr Koutný</i>
	Back bending at work influence risk of long-term sickness absence <i>Nidhi Gupta, Sweden</i>	On a Quest: The Conundrums of Designing a Scientific study of Office Tasks in a VR Environment <i>Cecilia Berlin, Sweden</i>	Feasibility of electromyographic measurements with a new inexpensive wearable Bluetooth device <i>Rosetta Maglio, Sweden</i>
	Effectiveness of vibrotactile feedback training to reduce postural exposure in manual sorting <i>Liyun Yang, Sweden</i>	Ergonomics of Office Work in a VR Environment: A State-of-the-art review <i>Maral Babapour Chafi, Sweden</i>	Designing new ways for ergonomics teaching: engaging students through co-creation <i>Thiago Gomes de Lima, Brazil</i>
	ActiPASS a new improved tool to measure physical behaviours 24/7 from thigh worn accelerometers <i>Peter Johansson, Sweden</i>	The use of STEP analysis supported by virtual simulations in concept development <i>Johan Nordström, Sweden</i>	Methodologies for a Performance Based Approach to Ergonomics Programs <i>Rachel Michael, USA</i>
	A new generation of smart T-shirts with automatic direct reports <i>Jörgen Eklund, Sweden</i>	Exploring Augmented Reality for Advanced Maritime Operations <i>Henrik Aasgaard Carho, Norway</i>	The key role of the employee in incident prevention and ergonomics as a tool to achieve a safe working environment <i>Petr Koutný, Czechia</i>
	A sensor-based smartphone app for cost and time effective wrist velocity measurements <i>Mikael Forsman, Sweden</i>	Heuristics for human multi-purpose robot interaction <i>Susanna Aromaa, Finland</i>	Financial effects of suggested work environment improvements – Examples from applied Masters students' projects <i>Cecilia Österman, Sweden</i>
14:30 - 14:45	Coffee break		

Session 6

14:45 - 15:45

ROOM: Gamla salen	ROOM: Strömsholm	ROOM: Inre lärummet
WORKSHOP: Smart textiles <i>Chair: Jörgen Eklund</i>	WORKSHOP: Crisis information design with a human factors/ergonomics perspective <i>Chair: Bijan Aryana, Sweden</i>	Visual ergonomics <i>Chair: TBA</i>
	The human variable in societal resiliency to disasters: the perspective of CORE project <i>Gabriella Duca, Italy</i>	Color blindness and age-related color vision – a new Design For All method (design and evaluation) <i>Max Lindfors, Finland</i>
		Objective risk assessment of glare and subjective rating of the frequency of glare – a visual ergonomics risk assessment, VERAM <i>Hillevi Hemphälä, Sweden</i>
		Headaches in combination with visual ability, eye- and musculoskeletal strain in connection with visually demanding work tasks <i>Susanne Glimne, Sweden</i>
	Effects of prismatic loupes on surgeons' postural and muscular neck workload <i>Xuelong Fan, Sweden</i>	

15:45 - 16:00

Closing session*Jessica Lindblom & Cecilia Österman, Organising committee*