NES 2022 Work Well – Ergonomics in an unpredictable world

Sunday, 23	October	Norrlands Nation Fest & Konferens
17:00		Registration opens
18:00 - 20:00		Get-together session

Monday, 24 October Norrlands Nation Fest & Konferens			
08:00 - 09:00	Registration		
09:00 - 09:15	Welcome address and opening ceremony Robin Strand, Professor of computerized image analysis and Deputy head of the IT department, Uppsala University Denis A. Coelho, NES President and Cecilia Österman, EHSS President		
09:15 - 09:45	KEYNOTE Digitalisation and the work environment Åsa Cajander, Professor of human-computer interaction, Uppsala University		
09:45 - 10:15	KEYNOTE Human Factors in the age of autonomous systems Ole Andreas Alsos, Associate professor of interaction design, Norwegian University of Science and Technology (NTNU)		
10:15 - 10:30	Coffee break & Exhibitions		
Session 1	ROOM: Gamla salen	ROOM: Strömholm	ROOM: Inre läsrummet
10:30 - 12:00	Occupational safety and health management Chair: Viktoria Wahlström	WORKSHOP: Using fatigue failure based exposure assessment tools to evaluate the risk of distal upper extremity MSDs Sean Gallagher, Mark Schall and Peter Johansson This workshop will give some background regarding fatigue failure theory, and will provide hands-on analysis of the Distal Upper Extremity Tool (DUET). DUET is a new risk assessment tool for hand-intensive occupational tasks. It is easy to use and can identify tasks responsible for higher proportion of risk (most in need of intervention).	Transport systems Chair: Anna-Lisa Osvalder
	Managers organisational and social work environment during the pandemic in Sweden Rachael Tripney Berglund		Safety and human factors implications of RPAS introduction in controlled airspace: a case study Vittorio Sangermano
	Organisational capabilities for developing the system operator role in the Norwegian power grid Asgeir Drøivoldsmo		Training non-technical competences - potential benefits and perceived needs for improvement Karolina Stark
	The key role of the employee in incident prevention and ergonomics as a tool to achieve a safe working environment Petr Koutný		A roadmap for UX in rail: Changing tracks in train traffic research Mikael Laaksoharju
	Leadership quality - video-assisted work analysis of leaders' behaviours Simon Elvnäs		Transferring tacit knowledge among operators in safety-critical systems Anna-Lisa Osvalder
	With the stable as a workplace – about attractive, healthy and sustainable employments in the Swedish equine sector		How human skills and technology overcome acciden in space , in the air and on land building systems resilience

12:00 - 13:00	Lunch break & Exhibitions			
Session 2 13:00 - 14:30	ROOM: Gamla salen	ROOM: Strömholm	ROOM: Inre läsrummet	
	SPECIAL SESSION: Activity-based work environments – Perspectives on the implementation process and employee well-being Chairs: Annu Haapakangas & Piia Markkanen	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 Ulrikα Florin	Importance of good working gloves - ErgoSleeve in validating the gloves and measuring arm muscle load Riitta Simonen	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	
	Effects of workplace change on work engagement and perceived work-environment fit – The role of change management Pia Sirola	A comparative study regarding noise and hand-arm vibration exposure during self-compacting and conventional concrete casting Inga Mikhaltchouk	Vest design and development process Linéa Stenfors, Sweden	
	The important process when relocating to activity- based workplaces Eva Bergsten	An objective approach for assessment of hand-arm vibration dose Guilherme Elcadi	Pressure measurements between shoulders and vest- Method Roy Tranberg	
	Tools for creativity in co-design workshop – Applying participatory design process to support workplace satisfaction and need-supply fit formation Piia Markkanen	Feasibility of electromyographic measurements with a new inexpensive wearable Bluetooth device Mikael Forsman	Pressure measurements between shoulders and vest Result Louise Bæk Larsen	
	Workspace use, perceived work environment and employee well-being – A case study of an activity- based office Annu Haapakangas	Application of low-cost accelerometers in risk assessment of low back pain due to whole body vibrations Pasan Hettiarachchi	Usability evaluation of an equipment vest with integrated ballistic protection Kristina Eliasson	
		Interactive individual ergonomic report as means for risk assessment and ergonomic education among surgeons Melanie Hensel	Physical activity patterns among uniformed police officers Peter Johansson	
			Effects of an equipment vest without integrated ballistic protection as a rehabilitation measure for police officers with low back pain Teresia Nyman	

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14:30 - 15:00	Coffee break & Exhibitions			
	ROOM: Gamla salen	ROOM: Strömholm	ROOM: Inre läsrummet	
Session 3	NES Student Prize session	SPECIAL SESSION: The European Work	SPECIAL SESSION: Occupational health	
15:00 - 16:00	Chair: Kristina Eliasson	Environment Authorities Chair: Elin Vidlund	challenges in the Arctic Chair: Jens Wahlström	
	Visor adapted for headlamps, for ear-nose-throat doctors Gustav Brogren, Sweden	Ergonomic Risk Management Strategy in Ireland: A focus on Risk Exposure reduction Frank Power , Health and Safety Authority, Ireland	Cold exposure and MSD – a prospective population- based study Charlotte Lewis	
	Sole entrepreneur's networking and wellbeing at work at the Savo region Piia Kauhanen, Finland	Improving ergonomic risk assessments in the Norwegian Oil and Gas Industry Brit Gullesen, Petroleum Safety Authority, Norway	Nordic cooperation for promoting occupational health and safety research and education in the Arctic Hans Pettersson	
	Managing bereaved employees at the workplace Maria Bang Jensen, Denmark	What is going on at the Swedish Work Environment Authority regarding the prevention of MSDs? Elin Vidlund, Swedish Work Environment Authority	Carpal tunnel syndrome and cold exposure – a population based study <i>Jens Wahlström</i>	
16:00 - 17:00	NES Annual General Meeting in Strömholm			
19:00	Conference dinner at Norrlands Nation NES Student Prize Winner announced			

Tuesday, 25 October Norrlands Nation Fest & Konferens			
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 & Exhibitions	
Session 4	ROOM: Gamla salen	ROOM: Strömholm	ROOM: Inre läsrummet
10:30 - 12:00	Advanced risk management tools Chαir: Liyun Yang	Ergonomics in healthcare Chair: Päivi Kekkonen	Human factors in design Chair: Catherine Trask
	Improving safety culture in occupational contexts: an actionable toolkit Gabriella Ducα	Management of well-being at work in large Finnish healthcare companies according to corporate social responsibility reports Päivi Kekkonen	Building safety into the lifecycle: the potential for building information modelling (BIM) to enhance occupational health and safety Catherine Trask
	A usability study of the SRA Index (Sustainable Risk Awareness Index), a KPI for Management Support Helena Franzon	Digitalisation in primary healthcare - the barriers and facilitators for digital patient- and work management to work well Susanne Frennert	Ergonomic evaluation and social construction of a petroleum refining unit project (in times of a pandemic) Cynthia Alhadeff
	The RAMP 2.0 project – Towards an enhanced MSD risk management tool <i>Linda M Rose</i>	Meeting the challenges of home care in small residential bathrooms: creation of the bathroom aid inventory Brenda Rodrigues Coutinho	Ergonomics early in the design phase at Scania Kerstin Tegbrant
	Systematic risk management with RAMP for risk assessment and adapted changes - an implementation study Mikael Forsman	Digitalization of home care and home care nursing during the Covid-19 pandemic: initial findings Christofer Rydenfält	Building information modelling and integration of occupational health and safety in construction project design Kari Anne Holte
	Results from biomechanical risk assessment aboard fishing vessels Alessio Silvetti	Can journey mapping be used to visualize information sharing in home care? Johanna Persson	Comfort, seat belt fit and misuse for older adults when travelling in cars Melina Makris
			Evaluation of comfort and fit of personal protective equipment Anna-Lisa Osvalder
12:00 - 13:00	Lunch break & Exhibitions		

Tuesday, 25 October Norrlands Nation Fest & Konferens			
	ROOM: Gamla salen	ROOM: Strömholm	ROOM: Inre läsrummet
Session 5 13:00 - 14:30	SPECIAL SESSION: Work well – by improving working condition after risk assessment with reliable technical methods Chair: Mikael Forsman	Modern digitalisation technologies Chair: Steven Mallam	Applications in ergonomics Chair: Petr Koutný
	Back bending at work influence risk of long-term sickness absence Nidhi Gupta & Liyun Yang ActiPASS a new improved tool to measure physical	On a Quest: The conundrums of designing a scientific study of office tasks in a VR environment Cecilia Berlin Ergonomics of office Work in a VR environment:	Effects of prismatic loupes on surgeons' postural and muscular neck workload Xuelong Fan Methodologies for a Performance Based Approach to
	behaviours 24/7 from thigh worn accelerometers Peter Johansson	a state-of-the-art review Maral Babapour Chafi	Ergonomics Programs Rachel Michael
	Effectiveness of vibrotactile feedback training to reduce postural exposure in manual sorting Liyun Yang	The use of STEP analysis supported by virtual simulations in concept development Johan Nordström	Resilience and preparedness in maritime training – current approaches and research gaps Gesa Praetorius
	A new generation of smart t-shirts with automatic direct reports Jörgen Eklund & Viktoria Wahlström	Exploring augmented reality for advanced maritime operations Henrik Aasgaard Carho	Objective risk assessment of glare and subjective rating of the frequency of glare – a visual ergonomics risk assessment, VERAM Hillevi Hemphälä
	A sensor-based smartphone app for cost and time effective wrist velocity measurements Mikael Forsman	Heuristics for human multi-purpose robot interaction Susanna Aromaa	Headaches in combination with visual ability, eye- and musculoskeletal strain in connection with visually demanding work tasks Hillevi Hemphälä
			Financial effects of suggested work environment improvements – Examples from applied Masters students' projects <i>Linda Rose</i>
14:30 - 14:45		Coffee break & Exhibitions	

Tuesday, 25 October Norrlands Nation Fest & Konferens				
Session 6 14:45 - 15:45	Also, this system can be used for self-training of work technique. The participants in the workshop will get an	ROOM: Strömholm WORKSHOP: Crisis information design with a human factors/ergonomics perspective Chair: Bijan Aryana The human variable in societal resiliency to disasters: the perspective of CORE project Gabriella Duca Many people are subject to information gap during a crisis due to functional variations, age, and even language. Join us in this workshop to see how human factors and ergonomics can contribute to an inclusive information design for crisis.	ROOM: Inre läsrummet WORKSHOP: Visual ergonomics and lighting Chair: Hillevi Hemphälä & Cecilia Österman Good lighting is important for visual comfort, safety and productivity in workplaces. But what is good lighting and how do we know if a lighting solution is good? This workshop includes a lecture and practical demonstrations. A brief review will be given of lighting recommendations and standards of for the visual environment and how these can be sourced. A short Visual Ergonomics checklist will also be presented with instructions how to use the checklist. It is suitable for all wishing to gain an understanding of visual ergonomics for workplaces.	
15:45 - 16:00	Je	Closing session essica Lindblom & Cecilia Österman, Organising committe Denis A Coelho, NES President	re	