

Map



Room colour code

Kronborg 1&2		Terrace by Salon 1	
Kronborg 10		SeaSide	
Kronborg 12	Kronborg 8	Kronborg 11	

Sunday, 25 August 2019

16:00	Registration opens
19:00	Get-together session

Monday, 26 August 2019

08:00-09:00	Registration			
09:00-09:15	Welcome - opening ceremony <i>Elina Parviainen, NES President</i> <i>Kathleen Mosier, IEA President</i> <i>Rikke Seim, President, IDA Danish Occupational Safety and Health Professionals, and Mads Kristoffer Lund, Co-chair of NES 2019 Organizing Committee</i>			
09:15-10:00	 KEYNOTE 1: Wondering about the future of work? Look to innovations of the past <i>Patrick Neumann, Professor in the Department of Mechanical and Industrial Engineering, Ryerson University, Toronto Canada</i>			
10:00-10:45	 KEYNOTE 2: Systems ergonomics in productive workplaces - a Nordic out-look on who, how and why <i>Cecilia Berlin, Associate Professor in Division of Design & Human Factors, Chalmers University of Technology, Göteborg Sweden</i>			
10:45-11:00	Coffee break			
Session 1 11:00-12:30	ROOM: Kronborg 10 WORKSHOP: Improving health & safety by automation <i>Jan Toft Rasmussen, Denmark</i> The workshop presents a small handful of practical tools and guidelines and discusses ways to enhance the participation from workers in planning and implementation. We will also look into the business case of investing in automated solutions for improving occupational health and safety. 	ROOM: Kronborg 12 Systems ergonomics <i>Chair: Kirsten Bendix Olsen</i> Macroergonomics and change management for sustainability in a water centric community <i>Denis A Coelho, Sweden</i> Vulnerabilities in prevention and treatment of malnutrition - the role of the electronic patient journal <i>Kine Reegård, Norway</i> What is the potential for applying a Safety-II approach to the nuclear industry? <i>Robin Hamer, UK</i> A systems ergonomics approach to engineering design projects <i>Ole Broberg, Denmark</i>	ROOM: Kronborg 8 Occupational health and safety management (I) <i>Chair: Steven Mallam, Norway</i> Intervention program to reduce time pressure and work overload at a Danish University <i>Liv Starheim, Denmark</i> Workers' comprehensibility of pictograms on chemical labels <i>Akiko Takahashi, Japan</i> A strategic MSD prevention tool for municipalities <i>Kasper Edwards, Denmark</i>	ROOM: Kronborg 11 WORKSHOP: Professional certification of ergonomists and human factors experts <i>Anders Sundin and Cecilia Berlin, Sweden</i> Participants will gain insight in the landscape of certification on a global level (IEA) as well on a European level (Centre for Registration of European Ergonomists, CREE), its structure, requirements and how to apply. 
12:30-13:30	Lunch break			

Monday, 26 August 2019

<p>Session 2 13:30-15:00</p>	<p>WORKSHOP: STUCK - Dealing with organizational trauma - (I) <i>Monique Hartmann, Denmark</i></p> <p>The workshop will start with a presentation of the concept Organizational Trauma, followed by an exercise, where you will have the opportunity to try a method that can help recognizing Organizational Trauma in a workplace.</p> 	<p>Prospective ergonomics <i>Chair: Jörgen Eklund</i></p> <p>Contributing to the energy transition with the "Needs and uses ideation interview" <i>Antoine Martin, France</i></p> <p>Overview of methods for prospective ergonomics <i>Jean-Marc Robert, Canada</i></p> <p>Improving mental time travel abilities to support the collection of needs: a pilot study <i>Clement Colin, France</i></p> <p>Investigating crowdsourcing tools for product design and innovation <i>Jean-Marc Robert, France</i></p>	<p>Occupational health and safety management (II) <i>Chair: Anna-Lisa Osvalder, Sweden</i></p> <p>How OHS engineers support clients in their OHS management <i>Henrik Strohmayr, Sweden</i></p> <p>Incorporating OHS into corporates' strategies: a Swiss project <i>Oliver Girard, Switzerland</i></p> <p>Towards improving e-learning platforms for professional education <i>Steven C. Mallam, Norway</i></p> <p>The legibility threshold of Chinese characters on the augmented reality display - A preliminary study <i>Chien-Chi Chang, Taiwan</i></p>	<p>SPECIAL SESSION: The Nordic working environment authorities <i>Chair: Camilla Madsen</i></p> <p>Knowledge clarification regarding computer work <i>Anne Marie Salbæk, Denmark</i></p> <p>The Swedish Work Environment Authority introduces medical checks for hand-intensive work <i>Kersti Lorén, Sweden</i></p> <p>Improving ergonomics risk assessment in the Norwegian Oil and Gas Industry <i>Brit Gullesen, Norway</i></p>
<p>15:00-15:20 Coffee break</p>				
<p>Session 3 15:20-16:50</p>	<p>WORKSHOP: STUCK - Dealing with organizational trauma - (II) <i>Monique Hartmann, Denmark</i></p> 	<p>National regulation of occupational health and safety <i>Chair: Christine Ipsen, Denmark</i></p> <p>Improving the investigation and learning of occupational accidents in Denmark - some important barriers <i>Frank Huess Hedlund, Denmark</i></p> <p>What makes a national moving and handling guideline work, or not? <i>Kirsten Bendix Olsen, New Zealand</i></p>	<p>Risk analysis and management <i>Chair: Ole Broberg, Denmark</i></p> <p>Reducing postural exposure in manual handling - effects of vibrotactile feedback and verbal instructions <i>Carl Lind, Sweden</i></p> <p>Work-Related injuries among craft brewery workers in Colorado, 2015-2018 <i>Colleen Brents, USA</i></p> <p>The RAMP package for MSD risk management - Dissemination of the tool, website and MOOCs <i>Jörgen Anders Evert Eklund, Sweden</i></p> <p>Fall risk evaluation of community-dwelling elderly using inertial sensor and 3M TUG test <i>Tien-Lung Sun, Taiwan</i></p>	<p>WORKSHOP: Dilemmas in introducing tele-medical and pervasive monitoring technologies in the private homes of citizens in need of care: balancing privacy against the duty of care <i>Henning Boje Andersen, Denmark</i></p> <p>After a short introduction by the organisers, participants are expected to jointly develop an analysis of the dilemma(s) and formulate possible solutions, facilitated by organisers.</p> 
<p>17:30-19:00 Social event: Free guided tours to Hamlet's Kronborg Castle, or The Maritime Museum of Denmark</p>				

Monday, 26 August 2019

Session 2	ROOM: SeaSide
13:30-15:00	WORKSHOP: Myontec Ergoanalysis with smartwear <i>Riitta Simonen, Finland</i> This workshop will introduce participants to the Myontec Ergoanalysis™, which is a novel method used to measure work related physical loading at workplaces with wearable sensors combining electromyography (EMG), upper extremity and back movements as well as heart rate. 
15:00-15:20	Coffee break
Session 3	Human-machine interaction
15:20-16:50	<i>Chair: Arto Reiman, Finland</i> Usability assessment of the virtual reality in clinical upper extremity rehabilitation <i>Lan-Ling Huan, Taiwan</i> Forearm muscle activity dynamism in PC mouse use <i>Denis A Coelho, Sweden</i> Virtual reality assisted dis-assembly training system <i>Lifen Yeh, Taiwan</i> A study on the use of smart phone text input mode by the elderly <i>Jia-Cheng Chang, Taiwan</i>

Tuesday, 27 August 2019

08:45-09:30



KEYNOTE 3: Ergonomics for performance

Jan Dul, Professor of Technology and Human Factors at Rotterdam School of Management, Erasmus University, Rotterdam the Netherlands

09:30-09:50

Coffee break

Session 4

09:50-11:20

ROOM: Kronborg 10

SPECIAL SESSION:

Ergonomic evaluation with modern digitalisation technology

Chair: Rudy Ying-Yin Huang, Taiwan

Occupational evaluation with Rapid Entire Body Assessment (REPA) via imaging processing in field

Yunju Lee, Taiwan

Effect of environmental representation and familiarity in a virtual reality hand manipulation training task

Rudy Ying-Yin Huang, Taiwan

Utility of a low cost commercial EEG device for neuroergonomics studies

Marino Menozzi, Switzerland

Enabling real-time measurement of situation awareness in robot teleoperation with a head-mounted display

Guangtao Zhang, Denmark

ROOM: Kronborg 12

Musculoskeletal health

Chair: Jakob Ugelvig Christiansen

Bad plastic bag ergonomics

Göran Mikael Hägg, Sweden

Musculoskeletal and visual discomfort among office workers

Triinu Sirge, Estonia

The influence of organization, management, team and employee factors on physical workloads and musculoskeletal disorders: The DOSES-IGLO project

Kristina Karstad, Denmark

A literature review of upright sitting posture and its effects on physical and mental conditions

Anna-Lisa Osvalder, Sweden

ROOM: Kronborg 8

Visual ergonomics, Ergonomics work analysis & Psychosocial work environment

Chair: Rikke Seim

An investigation on the performance of perspective tactile puzzles for visually impaired people

Ming-Hsuan Hsieh, Taiwan

Multi-method approach for evaluating visual conditions in control room environments

Susanne Glimne, Sweden

Usability of electronic health records: What does the literature reveal about the work dimension?

Carolina Maria do Carmo Alonso, Brazil

Effects of different hand-held positions on upper limb movement and electromyography

Chih-Wei Lu, Taiwan

Perceptions of satisfaction, collaboration, well-being and productivity after relocation to activity-based office

Virpi Ruohomäki, Finland

ROOM: Kronborg 11

SPECIAL SESSION:

Gender, work and health in ergonomics

Chair: Sandrine Caroly, France

The importance of HTO for gender sensitive ergonomics

Minke Wersäll, Sweden

Understanding gender, health and work through metaphor analysis

Cecilia Österman, Sweden

Difference in risk perception and risk management of mountain guides with gender approach at work: the role of observation and interview

Sandrine Caroly, France

11:20-11:40

Coffee break

11:40-12:25



KEYNOTE 4: Do we need new approaches for workplace health and employability?

Andreas Holtermann, Professor of Musculoskeletal Disorders and Physical Workload, National Research Center for the Working Environment, Copenhagen Denmark

12:25-13:25

Lunch break

Session 5

13:25-14:55

WORKSHOP:

Designing work systems using the ACD³ (Activity-Centered Design) framework - (I)

Cecilia Berlin, Sweden

In this workshop, we will introduce the ACD³ framework and allow participants to try using the framework on an example case. We will focus on the case of designing a work station,



Participatory ergonomics

Chair: Kasper Edwards

An intelligent fuzzy system for combating cybersickness in the elderly within a virtual museum

Cheng-Li Liu, Taiwan

Experience on a participatory ergonomics development process in a public health and welfare service center - Meal and cleaning personnel in focus

Arto Reiman, Finland

The 3D model as a participative tool in ergonomic intervention in the oil and gas industry

Cynthia Mossé Alhadeff, Brazil

The design criteria of virtual reality in e-commerce

Kuo-Wei Su, Taiwan

Organisational design and management

Chair: Sonja Mikkelsen - Co-Chair: Mette Larsen

The collective dimension of the integrated operations of logistics in the oil & gas industry

Luciano do Valle Garotti, Brazil

Mass lay-offs in the Norwegian petroleum industry. The influence of digitalization on the job situation for survivors.

Kari Anne Holte, Norway

Understanding coordinated freight terminals from an HTO-perspective

Martina Berglund, Sweden

Drivers for transforming the power grid company

Kine Reegård, Norway

Collaborative networking for workplace development

Ulrika Harlin, Sweden

WORKSHOP:

Human factors in Industry 4.0

Patrick Neumann, Canada

This is an interactive workshop for researchers and ergonomists. We will review the current state of Industry 4.0 and examine ways in which Human Factors aspects could be integrated in this context.



Tuesday, 27 August 2019

14:45-15:05	Coffee break			
Session 6 15:05-16:35	WORKSHOP: Designing work systems using the ACD³ (Activity-Centered Design) framework - (II) <i>Cecilia Berlin, Sweden</i> 	NES Student Award <i>Chair: Cecilia Österman</i>	Ergonomics intervention <i>Chair: Markus Jakobsen</i>	WORKSHOP: Aker BP's experience with Soter Spine: A wearable sensor to predict and prevent musculoskeletal injuries <i>Kristin Sommer & Ken Milne, Norway & Canada</i> Soter Spine is a wearable sensor who produces analytics to predict and prevent musculoskeletal injuries in the workplace. The sensor uses machine learning to improve data outcome. 
		Design guidelines: Study solutions for children. Ergonomic aspects of study solutions for 5-14-year-old children <i>Ann Forsman Sjöberg, Sweden</i>	How to identify the influence of the organisation of work and management on Occupational Safety and Health and on Sickness Absence in Danish abattoirs <i>Marie Louise Kirkegaard, Denmark</i>	
		STAY ON GROUND: Analysis and improvements of working procedure in relation to rigging and derigging when lifting concrete elements <i>Simone Dalvang and Allan Patrick Wandall, Denmark</i>	Review paper: Secular trends in human physical capacities of the working population and some ergonomic implications <i>Kurt Jørgensen, Denmark</i>	
		Designing for a better onboarding experience in practical training for nursing students at OsloMet <i>Nikolai Løyning and Caroline Odden, Norway</i>	Changes in young people's views and attitudes to physical activities by their experiences of daily activity measurement: Twelve-week real-life trails with wearable sensors <i>Sahar Hamido, Japan</i> A case of reengineering the layout of semiconductor manufacturing factory to improve musculoskeletal disorders of operators <i>Chih-Wei Lu, Taiwan</i>	
17:00-18:00	NES General Assembly: In Kronborg 12			
19:00	Conference dinner: In Marienlyst Salon			

Wednesday, 28 August 2019

Session 7 08:45-10:15	ROOM: Kronborg 10 WORKSHOP: Applying the concept Humans, Technology, Organization (HO) in practice - (I) <i>Martina Berglund, Sweden</i> <p>The workshop will be initiated by a presentation of the HTO-concept, followed by group work based on presented cases, and a final discussion in plenum about the participants' experiences and learning.</p> 	ROOM: SeaSide Digitalisation and automation of work - (I) <i>Chair: Lars-Ole Bligård, Sweden</i> <p>A model to promote learning at work in IT systems implementation <i>Arja Ala-Laurinaho, Finland</i></p> <p>Digitalizing company communication and the effect on psychosocial work environment <i>Kathrin Kirchner, Denmark</i></p> <p>Development of a cost-effective environment supporting remote collaboration <i>Asgeir Drøivoldsmo, Norway</i></p>	ROOM: Kronborg 11 WORKSHOP: Systematic multidimensional patient handling pays off <i>Markus Jakobsen, Denmark</i> <p>The aim of the workshop is to share and discuss the knowledge collected in three projects and hereby provide the participants with inspiration and tools for improving the use of assistive devices for patient handling.</p> 	ROOM: Kronborg 12 Cognitive ergonomics - (I) <i>Chair: Denis Coelho, Sweden</i> <p>Analysis of nursing mental workloads in chemotherapy medication administration <i>Sheau-Farn Max Liang, Taiwan</i></p> <p>Research of cognition of bicycle service between different user groups <i>Ming-Hsuan Hsieh, Taiwan</i></p> <p>Factors contributing to high cognitive workload in "expert operators": a case in automotive manual assembly <i>Åsa Camilla Söderström, Sweden</i></p>
10:15-10:35 Coffee break				
Session 8 10:35-12:05	WORKSHOP: Applying the concept Humans, Technology, Organization (HO) in practice - (II) <i>Martina Berglund, Sweden</i> 	Digitalisation and automation of work - (II) <i>Chair: Patrick Waterson, UK</i> <p>Digitalization in SMEs: automating or informing? <i>Arja Ala-Laurinaho, Finland</i></p> <p>Enabling data-driven decisions in power grid companies <i>Lars Hurlen, Norway</i></p> <p>A framework for aligning humans, technology and organisation in Industry 4.0 <i>Bzhwen Kadir, Denmark</i></p> <p>Digitization of production: safety & security groups of new technologies for prevention <i>Viktorio Malisa, Austria</i></p>	WORKSHOP: 50 years of NES - From the end of the 1960's to the end of the 2010's <i>Kasper Edwards, Denmark</i> <p>The results of the workshop will be documented and amended to the historic description of NES. A timeline and post-its will allow participants to suggest significant events which will be placed on the timeline.</p> 	Cognitive ergonomics - (II) <i>Chair: Cecilia Österman</i> <p>Can your eyes convey your emotion? <i>Min Chi Chiu, Taiwan</i></p> <p>Performance of visual attention switching between players of action and puzzle video games <i>Wei-Ru Chen, Taiwan</i></p> <p>Improving customer experience for all users regarding given traffic information at railway stations <i>Anna-Lisa Osvalder, Sweden</i></p>
12:05-12:25 Coffee break				
12:25-13:10	 KEYNOTE 5: Future work: A company perspective on a changing work environment <i>Camila Gram Andersson, Corporate Health, Safety & Environment (HSE) department, Lundbeck, Denmark</i>			
13:10-13:30	Closing session <i>Rikke Seim, President, IDA Danish Occupational Safety and Health Professionals, and Mads Kristoffer Lund, Co-chair of NES 2019 Organizing Committee</i>			