



NES2012

Saltsjöbaden, Stockholm, Sweden, 19-22 August, 2012, www.nes2012.se

Full program

| Time | Sunday August 19 |
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| 15.00 18.00 | Registration open |
| 18.00 | Get together at the Vår Gård Beach House |

Thematic colour codes:

Production ergonomics Usability & ICT Visual ergonomics Physical ergonomics Various ergonomics Various ergonomics

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| Time | MONDAY August 20 | | | | |
| 8.00 | Registration opens | | | | |
| 10.00 | Conference opening Room: Grünewald Chair: Linda Rose, Chair of NES 2012, co-chair: Christina Jonsson, chair of Ergonomics & Human Factors Society Sweden (EHSS) Welcome address, Linda Rose, chair of NES2012 Inauguration, Bettina Kashefi, Ministry of employment Presentation of the conference venue, Tulla Grünberger | | | | |
| 10.45 | Key note: Robert Dubois, Scania AB: Scania - success based on healthy and dedicated employees | | | | |
| 11.15 | Key note: Professor Susanne Bødker, Aarhus University, Denmark: Citizen participation with and through public web services | | | | |
| 11.45 | Sponsor presentation Scandinavian Business Seating and Atlas Copco Tools Presentation of poster session | | | | |
| 12.00 | Lunch and exhibitions | | | | |
| 13.00 | A1: Room: Amelin Session: Lean production Chair: Mikael Brännmark, co-chair Jörgen Eklund 1. <i>Eklund J:</i> Improvements, innovation and Lean 2. <i>Dellve L:</i> Why risk professional fulfilment: a mixed method study of physicians engagement in lean and healthcare development 3. <i>Eriksson A:</i> Hospital managers motivation for why and how to implement the organizational concept Lean production - Case studies of two Swedish hospitals 4. <i>Lindskog P:</i> HTO analysis of a lean healthcare implementation 5. <i>Brännmark M:</i> Patient quality effects from lean healthcare - an empirical investigation | B1: Room Öhrström Session: Usability Chair: Anna-Lisa Osvalder co-chair: Lars-Ola Bligård 1. <i>Osvalder AL:</i> Evaluation of ergonomic and usability features of ergonomic products on the market: Office chairs, computer mice and stable tools 2. <i>Bourmaud G:</i> A critical approach to accessibility with theoretical methodological and practical proposals 3. <i>Di Bucchianico G:</i> Defining ergonomic design for sustainability approach: Methodology and first verification on usability of products 4. <i>Babapour M:</i> Ergonomic evaluation of reach trucks - a usability comparative study of the working environment in three brand models | C1: Room Grünewald Session: Tools and methods for ergonomics assessment Chair: Åke Walldius co-chair: Helena Tobiasson. 1. <i>Persson M:</i> A new evaluation model for torque reaction forces from nutrunners 2. <i>Conceição C:</i> Intermediary object for participative design processes based on the ergonomic work analysis 3. <i>Rose L:</i> Recovery need in manual work: Development and application of an assessment tool 4. <i>Klock G:</i> Rapid Implementation and Evaluation, a method for operator perspective in system design 5. <i>Lind C:</i> RAMP - development of a risk assessment tool | D1: Room Lindberg Session: Transport and ergonomics Chair: Oskar Rexfelt, co-chair: Adel Mazloumi. 1. <i>Österman C:</i> Knowledge ergonomics - linking islands of knowledge to promote sustainable shipping 2. <i>Adolfsson N:</i> Whole-body vibration indicators for safer agricultural tractor driving 3. <i>Eklund R:</i> On the development of a head-up display solution to facilitate time-controlled aircraft taxi operation 4. <i>Duan L:</i> A comparison between Chinese drivers and Swedish drivers on driving behaviors 5. <i>Grane C:</i> Methodological considerations when adding new measures to the lane change test 6. <i>Mazloumi A:</i> Ergonomic Evaluation of a small truck car (Shoka) from the view point of its interior design | E1: Room Baertling Session: Ergonomics standards - an overview Chair: Tomas Berns, co-chair: Tomas Rosenblad. 1. <i>Berns T:</i> An overview of the present ongoing work in ISO/TC159/SC4 Signals and Controls 2. <i>Rosenblad T:</i> Standards work - practical results of technical committee 380, working group 1 3. <i>Goven T:</i> New and upcoming European Standards within lighting 4. <i>von Axelsson H:</i> Standardization concerning accessibility 5. <i>Leufstadius H:</i> Standardisation of Ergonomic aspects of transport information and control systems 6. <i>Holmer I:</i> Standards for the thermal environment |
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| Time | MONDAY continued | | | | |
| 14.30 | Coffee and exhibitions Poster session | | | | |
| 15.00 | A2: Room Amelin Workshop: Is there a Nordic model of Lean production? Forms and effects of a Nordic approach to Lean <i>Chair: Mikael Brännmark</i> <i>co-chair Jörgen Eklund</i> | B2: Room Öhrström Session: ICT, usability and accessibility <i>Chair: Jan Gulliksen,</i> <i>co-chair: Tomas Berns</i> 1. <i>von Axelsson H:</i> A new tool for coordinating the Swedish Government's efforts and actions in the area of ICT 2. <i>Swartling A:</i> Improved procurement of new technology 3. <i>Thorén C:</i> Quality assurance of procurement of usable and accessible ICT 4. <i>Gulliksen J:</i> Usability, accessibility and user experiences – and how to have an impact in practice | C2: Room Baertling Session: Psychosocial ergonomics methods and tools used in Nordic ergonomics supervision for a sustainable work environment and working life <i>Chair: Tomas Rosenblad,</i> <i>co-chair: Christina Johnsson</i> 1. <i>Campara R:</i> Knowledge sharing based on experience with intensified inspection in Residential & Health Care Sector 2. <i>Hammarberg U:</i> Investigation of work-related stress 3. <i>Wersäll M:</i> Hand Arm Risk Assessment Method (HARM) - Evaluation of a method for assessment of biomechanical exposure of the upper limbs when performing manual tasks 4. <i>Jonsson C:</i> Special prevention efforts for women's wellbeing at work 5. <i>Norheim T:</i> Supervision programme in the aqua cultural branch by the work inspection authority of Norway | D2: Room Lindberg Session: Human Machine Interface – National challenges in a global world <i>Chair: Anders Sundin,</i> <i>co-chair: Robert Broström</i> 1. <i>Rydström A:</i> Developing in-car user interfaces with emphasis on user experience 2. <i>Broström R:</i> Towards a model to interpret driver behaviour 3. <i>Gkouskos D:</i> The challenge of evaluating pleasure of use in vehicle interfaces 4. <i>Marshall D:</i> Development of an In-Vehicle User Interface for Traffic Information Presentation 5. <i>Svensson JL:</i> Designing multimodal stimuli for in-vehicle information systems 6. <i>Mohlin P:</i> Real-time manipulation and spatial location of auditory icons as tools to decrease the workload of a driver | E2: Room Grünewald Session: Ergonomics for lifelong well-being and sustainability <i>Chair: Allan Toomingas,</i> <i>co-chair: Carl Åborg</i> 1. <i>Griffiths A:</i> Work, health and ageing: Sustainability in design 2. <i>Lindberg P:</i> Indicators of healthy work environments - a systematic review 3. <i>Nilsen OV:</i> Stress and system in the work environment 4. <i>Schell E:</i> Work environment and health determinants in employees with no sick-leave 5. <i>Paananen H:</i> Well-being at Work – the viewpoints of experts and social and health care practitioners compared |
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| Time | MONDAY continued | | | | |
| 16.35 | <p>A3: Room Lindberg Session: Work in industrial systems <i>Chair: Lena Mårtensson, co-chair: Ann-Beth Antonsson.</i> 1. <i>Tegbrant K:</i> Proactive Ergonomics at Scania: Cooperation with Production technicians 2. <i>Andersson J:</i> Analysing work in complex industrial systems - A practical cognitive systems engineering approach</p> | <p>B3: Room Öhrström Session: Practical questionnaires for evaluating IT-systems usability in the field <i>Chair: Christina Jonsson, co-chair: Tomas Rosenblad</i> 1. <i>Söderström J:</i> Stress in the digital workplace: Towards a synthesis of technological, organizational and design aspects 2. <i>Sandblad B:</i> Cognitive Work Environment in IT-supported Work 3. <i>Thorner A:</i> A new evaluation tool for psychosocial aspects of the computer supported workplace 4. <i>Kavathatzopoulos I:</i> Assessing usability of IT systems 5. <i>Skoglund K:</i> How can companies and individuals guard against information and communication technology stress in the workplace? 6. <i>Claridge N:</i> The use of standardized questionnaires to analyse and measure usability experience during procurement and development of business systems</p> | <p>C3: Room Grünwald Session: Interventions <i>Chair: Håkan Alm, co-chair: Sari Tappura</i> 1. <i>Tappura S:</i> Occupational safety development in practical work training in vocational education 2. <i>Gummesson K:</i> Pedagogical tools to increase safety in the work environment 3. <i>Syvänen S:</i> Dialogic leadership promoting sustainable working life and innovativeness 4. <i>Hedin S:</i> eLearning as an effective preventing tool to improve the understanding and motivation of computer ergonomics 5. <i>Alm H:</i> How to decrease the risk of accidents in a complex system - what happened after 2010?</p> | <p>D3: Room Amelin Session: Risks and safety <i>Chair: Pernilla Ulfvengren, co-chair: Melcher Zeilstra</i> 1. <i>Zeilstra M:</i> Humans as an asset of a system, Consideration on the contribution of humans to system performance and system safety 2. <i>Jounila H:</i> Transport of hazardous liquids in Finland: An analysis of fatal accidents in service operations after the unloading phase 3. <i>Nordlöf H:</i> A description of the safety culture at a large steel manufacturing company</p> | <p>E3: Room Baertling Session: Work ability <i>Chair: Carl Åborg, co-chair: Katarina Kjellberg</i> 1. <i>Mazloumi A:</i> The influence of job content and work stress on work ability index of workers in a petrochemical industry 2. <i>Monteiro I:</i> Poor health and work factors in micro and small enterprises in Campinas - Brazil 3. <i>Monteiro I:</i> Gender and work ability in Brazilian poultry industry</p> |
| 18.05 | End day one | | | | |
| 21.00 | Get together in the bar on the reception floor (optional, beverages at own expense) | | | | |

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| Time | TUESDAY August 21 | | | | |
| 8.45 | Welcome live music, <i>Teresia Nyman and Ida-Märta Rehn</i> | | | | |
| 9.00 | Opening day two. Room Grünewald Chair: <i>Tomas Berns</i>. Co-chair: <i>Helena Tobiasson</i>. | | | | |
| 9.05 | Keynote: <i>Professor Louise Nygård, Karolinska Institute, Stockholm, Sweden: Technology, ageing and wellbeing</i> | | | | |
| 9.35 | Keynote: <i>Professor Pascale Carayon, University of Wisconsin, Madison, USA: Human factors in the delivery and sustainability of health services</i> | | | | |
| 9.55 | Sponsor presentation Tobii Technology AB Glamox Luxo | | | | |
| 10.20 | Coffee, posters and exhibitions | | | | |
| 10.45 | <p>A4: Room Amelin Session: Visual ergonomics <i>Chair: Per Nylén</i> <i>co-chair: Hans Richter</i></p> <ol style="list-style-type: none"> <i>Helland M</i>: Towards an international definition of Visual ergonomics <i>Fostervold KI</i>: Lighting quality in learning environments <i>Volden FS</i>: Portable devices as visual noise during lectures <i>Govén T</i>: The influence of ambient light on the performance, mood and endocrine systems of school children <p>Annual meeting: The NES visual ergonomic network</p> | <p>B4: Room Öhrström Session: Ergonomics and economics for sustainability and growth: from instruments and case-studies to societal incentives and strategies <i>Chair: Linda Rose,</i> <i>co-chair: Dietmar Elsler</i></p> <ol style="list-style-type: none"> <i>Trudel B</i>: The impact of new technology in mining equipment on productivity and OSH performance <i>Falck A</i>: Relationship between complex manual assembly work, ergonomics and assembly quality <i>Karlsson T</i>: Manager perceptions of work environment prioritization and its relation to success <i>Lohela Karlsson M</i>: What is the cost of safety problems and ill-health at Swedish companies? Measuring the cost of production loss due to ill-health and work environment problems for employees at work <i>Elsler DD</i>: How to create economic incentives in occupational safety and health | <p>C4: Room Grünewald Session: Work related neck and low back pain <i>Chair: Jens Wahlström,</i> <i>co-chair: Teresia Nyman</i></p> <ol style="list-style-type: none"> <i>Forsman M</i>: Demanding back postures and high pull forces – direct measurements of septic-tank vacuum-truck drivers' work <i>Wahlström J</i>: Lumbar disc herniation among Swedish construction workers <i>Pehkonen I</i>: Musculoskeletal pain and workload among city bus drivers and long-distance bus drivers <i>Burström L</i>: Whole-body vibration and low back pain- A systematic review <i>Nyman T</i>: Low back and neck-shoulder pain: How do genes and environment contribute? <i>Schell E</i>: Impact of a web-based stress management and health promotion program on neck-shoulder-back pain in knowledge workers? 12 month randomized controlled follow-up | <p>D4: Room Lindberg Session: Management and development for sustainability <i>Chair: Lotta Dellve,</i> <i>co-chair: Per Lindberg</i></p> <ol style="list-style-type: none"> <i>Kalkis H</i>: Ergonomics integration in process management <i>Porschen S</i>: Healthy and sustainable work organisations: Trust as a basis and result of self-controlled management and informally organized action fields <i>Löfström A</i>: Searching uses of culture as theoretical tools to increase quality in organisational ergonomics <i>Lindberg P</i>: The process of work environmental changes in manufacturing companies <i>Ulfvengren P</i>: Methodology for managing system changes-examples from aviation | <p>E4: Room Baertling Session: Technology, ageing and independence <i>Chair: Stefan Lundberg,</i> <i>co-chair: Erik Grönvall</i></p> <ol style="list-style-type: none"> <i>Lundberg S</i>: Facility management and health care at home <i>Jiancaro T</i>: Alzheimer's, Technology and Home: A Best Practices Design Guide <i>Hjalmarsson J</i>: Work postures when assisting people move between toilet and wheelchair <i>Larsen C-P</i>: Technical opportunities and constraints related to eHealth@Home <i>Boman IL</i>: First steps in designing an easy-to-use videophone for persons with dementia <i>Grönvall E</i>: LinkLights: Designing for home-based rehabilitation |
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| Time | TUESDAY continued | | | | |
| 12.15 | Lunch and exhibitions | | | | |
| 13.15 | A5: Room Amelin Session: Visual ergonomics (cont.) <i>Chair: Knut Inge Fostervold</i> <i>co-chair: Hillevi Hemphälä</i> 1. <i>Richter H:</i> Interrelationship between incident eye-and neck/scapular area symptoms among professional computer workers 2. <i>Domkin D:</i> Performance and fatigue perception during strenuous near work in persons with different levels of working memory capacity 3. <i>Lodin C:</i> Ratings of visual-and neck/shoulder discomfort during | B5: Room Öhrström Workshop: Human factors and the bottom line - quantifying the benefits of healthy workplaces <i>Chair: Linda Rose,</i> <i>co-chair: Patrick Neumann</i> | C5: Room Grünewald Session: Physical Ergonomics <i>Chair: Göran M Hägg,</i> <i>co-chair: Jia-Hua Lin</i> 1. <i>Ohnishi A:</i> Relation between handgrip width and upper limb motions in pushing and pulling of roll-box pallets 2. <i>Takanokura M:</i> Relation between handgrip width and muscular load of upper limb in handling of roll-box pallets 3. <i>Lin JH:</i> Modelling power tool torque reactions: experienced users vs. novice users 4. <i>Hägg GM:</i> Knife force differences when cutting meat at different temperatures 5. <i>Bergsten E:</i> Physical and psychosocial work conditions among baggage handlers in six Swedish airports 6. <i>Straker L:</i> Sit-stand desks, ergonomics awareness and sedentariness in Swedish call centers | D5: Room Lindberg Workshop: IEA Workshop "An opportunity to influence the pathways of future ergonomics" <i>Chair: Christina Jonsson and Pascale Carayon</i> | E5: Room Baertling Workshop: Registration as an European Ergonomist - Prove your skills within ergonomics on local and international markets <i>Chair: Anders Sundin,</i> <i>Co-chair: Ernst Koningsfeld</i> |
| 14.45 | Coffee, posters and exhibitions | | | | |
| 15.15 | Room Grünewald Keynote: Mr Ronnie Gardiner, RGRM International, Stockholm, Sweden: How you, with the help of rhythm, improve moving patterns, stimulate cognition, emotion and motor skills. | | | | |
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| Time | TUESDAY continued | | | | |
| 16.05 | A6: Room Amelin Session: Visual ergonomics (cont.) <i>Chair: Magne Helland</i> <i>co-chair: Allan Toomingas</i> 1. <i>Vuorenmaa N</i> : The efficacy of Task specific computer glasses in reduction of computer vision syndrome at the VDU work 2. <i>Glimne S</i> : Visual ergonomics and task analysis in eye care professionals 3. <i>Hemphälä H</i> : Visual ergonomics checklist 4. <i>Aronsson K</i> : Visual ergonomics and eye strain in eye care professionals | B6: Room Öhrström Session: Virtual Human Factors and Simulation in Design - Beyond digital human models <i>Chair: Patrick Neumann,</i> <i>co-chair: Michiel de Looze</i> 1. <i>Neumann P</i> : Symposium Introduction: Virtual Human Factors in Work System Design 2. <i>Högberg D</i> : A pragmatic approach to define anthropometric boundary manikins for multiple populations 3. <i>Broberg O</i> : Scenario-based table top simulations 4. <i>De Looze M</i> : Mixed reality and human factors evaluation to accelerate work station design 5. <i>Dode P</i> : Integrating human factors into discrete event simulation 6. <i>Aromaa S</i> : Analysing field of view in Virtual Environments: Testing new task-related dynamic field of view analysis | C6: Room Grünewald Session: Physical ergonomics (cont.) <i>Chair: Svend Erik Mathiassen,</i> <i>co-chair Catherine Trask</i> 1. <i>Oliveira NAS</i> : Work conditions in a Brazilian swine production unit 2. <i>Wilander K</i> : Physical workload at an assembly line for spherical roller bearings 3. <i>Mattus A</i> : MBT as work shoes - a pilotstudy at a shopping mall 4. <i>Berget A</i> : Three Case Studies Of Using A Treadmill Desk In The Office 5. <i>Trask C</i> : Musculoskeletal disorders on Canadian farms: A prospective cohort study | D6: Room Lindberg D6 a: Session Educations in ergonomics <i>Chair: Teresia Nyman,</i> <i>co-chair: Ann-Beth Antonsson</i> 1. <i>Kisko K</i> : Ergonomics and safety education through scale modelling and baking. Case: Santa´s workshop 2. <i>Power F</i> : The development of a competency based framework for manual handling training in Ireland 3. <i>Smallwood J</i> : Mass and density of materials: Construction management students' knowledge and perceptions D6b: Session Construction ergonomics <i>Chair: Ann-Beth Antonsson</i> <i>co-chair: Teresia Nyman</i> 5. <i>Almén L</i> : Design measures for building and construction site safety 6. <i>Smallwood J</i> : The influence of engineering designers on construction ergonomics | E6: Room Baertling Session: NES Student Prize <i>Chair: Göran M Hägg,</i> <i>co-chair: Torunn Sund-Olsen</i> |
| 17.35 | | | | | |
| 17.35 | End day two | | | | |
| 17.45 | NES General Assembly Annual Meeting | | | | |
| 19.30 | Conference dinner in the Vår Gård Restaurant | | | | |

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| | WEDNESDAY August 22 | | | | |
| 9.00 | Opening day three Room Grünewald <i>Chair: Ann-Beth Antonsson, Co-chair: Lena Mårtensson</i> | | | | |
| 9.10 | Keynote: Professor Svend Erik Mathiassen, University of Gävle, Sweden: Ergonomics ahead – research, practice, policy, | | | | |
| 9.40 | Presentation of the winner of NES Prize 2012. Region Västra Götaland represented by <i>Berit Winell</i> | | | | |
| 9.55 | <i>Anna-Lisa Osvalder</i>: Information on special section in Applied Ergonomics on the conference theme Ergonomics for Sustainability and Growth | | | | |
| 10.05 | Coffee and exhibition | | | | |
| 10.30 | A7: Room Amelin Workshop: Visual ergonomics workshop <i>Chair: Werner Osterhaus, co-chair: Hillevi Hemphälä</i> | B7: Room Grünewald Session: Virtual Human Factors and Simulation in Design - Beyond digital human models (cont.) <i>Chair: Patrick Neumann, co-chair: Michiel de Looze</i> 1. <i>Forsman M</i> : Simulating the effects of efficiency improvement efforts in car disassembly 2. <i>Viitaniemi J</i> : Industrial Spaces Participatory Conceptual Design Exploiting Virtual Environments 3. <i>Gink Lövgren M</i> : Developing Intelligent Manikins For Industry Use 4. <i>Rexfelt O</i> : Evaluating public transport vehicles using full scale mockups and staged experiences Plenary discussion on VHF tools | C7: Room Öhrström Workshop: Ergonomics infrastructure <i>Chair: Cecilia Berlin, co-chair: Cecilia Österman</i> | D7: Room Lindberg Session: Voice ergonomics <i>Chair: Eeva Sala, co-chair: Maria Södersten</i> 1. <i>Lyberg Åhlander V</i> : Speaker's Comfort in Teaching Environments 2. <i>Sala E</i> : Voice ergonomic risk factor in classrooms 3. <i>Rantala LL</i> : Connections of voice ergonomic risk factors to voice symptoms, voice handicap and respiratory diseases of teachers 4. <i>Södersten M</i> : Long-term measures of voice use using a portable voice accumulator and Ratings of Vocal Fatigue 5. <i>Jónsdóttir VI</i> : Noise levels and school policy in nursery schools | E7: Room Baertling Workshop: Preventive occupational health services for tomorrow <i>Chair: Magnus Svartengren, co-chair: Jos Verbeek</i> Invited speakers: <i>Jos Verbeek</i> <i>Odd Bjørnstad</i> <i>Kari-Pekka Martimo</i> This workshop is part of the research program "Future Occupational Health Services, research for continuous evaluation, learning and improvement" |
| 12.00 | <i>Chair: Linda Rose and Christina Jonsson</i> Presentation of NES 2013 Room Grünewald | | | | |
| 12.15 | Closing ceremony | | | | |
| 12.30 | Lunch | | | | |

Posters on next page.

Posters

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| 1. <i>Yamashita M</i> : Psychophysiological effects of tones of coloured lights in a dark environment |
| 2. <i>Krupenia SS</i> : Multimodal data for episodic and semantic recall |
| 3. <i>Mattes J</i> : Metoder inom FHV - vilka används och varför? |
| 4. <i>Dejus I</i> : The significance of ergonomics risk identification in enterprise LLC "Liepajas Udens" |
| 5. <i>Ericsson P</i> : Reliability testing of two ergonomic risk assessment tools |
| 6. <i>Giörloff A</i> : Evaluation of two offices from a visual ergonomic perspective |
| 7. <i>Tkatsova L</i> : Organizational learning as a vehicle for providing organizational health and safety culture |

Posters are on display along the window row outside the Grünewald hall (see map next page).

Map over the conference floor at Vår Gård

