

29,30,31  
mars  
2017  
Nancy (F)

Innovation technologique  
changements organisationnels  
quels enjeux pour la prévention ?



## Preliminary programme

Wednesday 29 March 2017

### Morning

08:30 - *Registration and coffee*

### 09:30 - Opening session (INRS)

10:30 - **Keynote speaker: Dietmar REINERT**, IFA (Germany)

*Occupational safety and health innovations and PEROSH*

11:10 - **Keynote speaker: Thomas COUTROT**, DARES, Ministère du Travail et de l'emploi (France)

*Organisational changes, insecurity and health of employees*

11:50 - **Keynote speaker: Yves ROQUELAURE**, CHU Angers, INSERM U 1085 (France)

*Sustainability of occupational health actions in a changing world*

12h30 - *Lunch*

### Afternoon

#### Session 1: Communication technology

14:00 - **Keynote speaker: Patricia VENDRAMIN**, Université Catholique de Louvain (Belgium)  
*Effects of the digital economy on work conditions*

14:40 - **Veerle HERMANS**, IDEWE (Belgium)  
*Office work innovation: What about well-being?*

15:00 - **Sylvain LEDUC**, Université Aix-Marseille (France)  
*The effects of dematerialisation on work and health*

15:20 - **Ophélie MORAND**, INRS (France)  
*Impact of ICT on a person's relationship with their job: an analysis based on coping strategies*

15:40 - **Jihane AZOUL**, Université Mohamed V, Rabat (Morocco)  
*The negative effects of email overload on occupational well-being*

16 :00 - *Coffee break*

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16:30 - **Wafa EL WAFI, Eric BRANGIER, F. ZADDEM**, PERSEUS, Université de Lorraine (France)

*How and why the boundaries between personal and professional life change*

16:50 - **Laura DOVERO, Eric BRANGIER**, PERSEUS, Université de Lorraine (France)

*Measuring leadership in electronic messages: how email content can build or destroy leadership*

17:10 - **Karolus O. KRAAN**, TNO (The Netherlands)

*A roboticised labour market: implications for workers and the role of vocational rehabilitation specialists*

17:30 - **Jutta FRIEDERIZI, M. HARTWIG & A. WINDEL**, BAuA (Germany)

*Working in the Digital World – Focus: Human Being*

17h50 - End of the day

18h00 - Icebreaker party

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**Thursday 30 March 2017**

## Morning

08:30 Registration

## Session 2: The new computer-assisted production tools

09:00 - **Keynote speaker: Patrick NEUMANN**, Ryerson University (Canada)  
*Managing risk in the innovation process*

09:40 - **Evelyne MORVAN, Bertrand DELECROIX**, INRS (France)  
*Creating a Lean typology for prevention purposes: initial observations*

10:00 - **Willy BUCHMANN**, CNAM CRTD (France)  
*When innovation isn't enough: an ergonomic reconstitution of changes in a workshop to understand the connections between work and musculoskeletal disorders*

10:20 - **Robin FOOT, Laurène ELWERT**, UMR 8134 CNRS (France)  
*Can technology do it all? Reflections on the design of the tramway driver cab*

10:40 - Coffee break

11:10 - **Hélène THIERRY, Eric PELTIER, Joël MALINE**, ARACT Normandie (France)  
*Simulating working conditions in the digital era*

11:30 - **Kaj HELIN, Jaakko KARJALAINEN**, VTT Technical Research Centre of Finland (Finland)  
*Participatory design of final products or production using multi-site and multi-user virtual environments*

11:50 - **Rémy HUBAUT, Sandrine CAROLY, Fabien COUTAREL, Christophe BLANCHON, Christophe ROYBIN**, PACTE Université Pierre Mendès France (France)  
*Digital tools and the prevention of musculoskeletal disorders*

12:10 - **Mohsen ZARE, Bernard MIGNOT, Jean-Claude SAGOT**, ERCOS, UTBM Université de Bourgogne (France)  
*Serious Game applied to prevent musculoskeletal disorders: can new technologies help to improve health at work?*

12:30 - Lunch

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## Afternoon

### Session 2 (cont'd): The new computer-assisted production tools

- 14:00 - **Keynote speaker: Michiel de LOOZE**, TNO Leiden and VU University Amsterdam (The Netherlands)  
*The potential of exoskeletons to be widely accepted in industry*
- 14:40 - **Jean THEUREL, Kévin DESBROSSES, Terence ROUX, Olivier MOREL**, INRS (France)  
*Exoskeletons: when physiological consequences raise work organisation issues*
- 15:00 - **Nicolas FROMENT**, OPPBTP (France)  
*The use of exoskeletons on construction sites*
- 15:20 - **Jean-Jacques ATAIN-KOUADIO, Liên WIOLAND, Jean THEUREL, Amélie DELACOURT**, INRS (France)  
*Integrating an exoskeleton: feedback and reference points*
- 15:40 - *Coffee break*
- 16:10 - **David TIHAY, Nellie PERRIN**, INRS (France)  
*Human-robot coactivity: an assessment of needs*
- 16:30 - **Sébastien BRUERE, Denys DENIS, Sabrina JOCELYN, Damien BURLET-VIENNEY, Laurent GIRAUD, Edith VINET**, IRSST (Canada)  
*Joint research by engineers and ergonomists on the safe installation of cobots: a Canadian example at the IRSST*
- 16:50 - **Théo MOULIERES-SEBAN, David BITONNEAU, Jean-François THIBAUT**, IMS, Université de Bordeaux (France)  
*Cobotics: new support tools for production and prevention*
- 17:10 - **Aline DRONNE**, ARACT Grand-Est (France)  
*Developing quality of working life (QWL) for farmers in the Lorraine region: Better understanding technological developments and the quality of working life of farmers and their employees*
- 17:30 - **Jose SAENZ, Roland BEHRENS, Norbert ELKMANN, Erik SCHULENBURG, Christoph WALTER**, Fraunhofer IFF, Business Unit Robotic Systems (Germany)  
*Computer-Aided Safety and Risk Prevention – Taking collaborative robotics from isolated pilots to large scale deployment*
- 17:50 - End of the day
- 19:00 - *Social event (guided tour of Nancy and dinner)*

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**Friday 31 March 2017**

## **Morning**

8:30 Registration

### **Session 3: Computer tools for management of production and information flows**

- 09:00 - **Keynote speaker: Garrett BURNETT**, Research to Practice Office, NIOSH (USA)  
*Moving innovations along the occupational safety and health value chain*
- 09:40 - **Virginie GOVAERE, Liên WIOLAND**, INRS (France)  
*Transport and Logistics: ICT and business strategies. Occupational Health and Safety Consequences*
- 10:00 - **Gaétan BOURMAUD, Xavier RETAUX, Laurent ROSSI, Bertrand NOËL**, AXErgonomie (France)  
*When drivers are not sure that their bus will stop... Trust and mistrust in technical devices through the concept of instrument systems*
- 10:20 - **Pascal LAMY**, INRS (France)  
*Preventing vehicle-pedestrian collisions: the impact of detection systems on organisation*
- 10:40 - *Coffee break*
- 11:10 - **Anne-Marie PENZO**, SECAFI (France)  
*Geo-optimisation for industrial maintenance technicians and prevention of associated risks – Feedback from health and safety committee (CHSCT) experts*
- 11:30 - **Anna DĄBROWSKA**, Central Institute for Labour Protection, National Research Institute (Poland)  
*The potential of smart PPE in accident prevention and well-being at work based on the examples of selected solutions*
- 11:50 - **Nathalie GREENAN, Mohamed BEN HALIMA, Joseph LANFRANCHI, Laetitia OTTE**, CNAM-CEET (France)  
*Company organisational changes and long term sickness absence and injury leave: results from a “difference in difference” approach*
- 12:10 - **Keynote speaker: Michel HERY**, INRS (France)  
*Innovation and changes at work: using forward-looking studies to initiate reflection rather than to make predictions*
- 12:50 - Closing session**
- 13:00 - End of the conference**

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## POSTERS

### Session 1: Communication technology (29 March, from 16:00 to 16:30)

**I. NEITZNER, E. FLASPÖLER, A. HAUKE, R. KLÜSER, P. PASZKIEWICZ, D. REINERT,** Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (Germany)

*Digital communication and its implications for OSH: Results from the DGUV Risk Observatory*

**M. LUM,** CDC/NIOSH (USA)

*Wikipedia the Global Information Data Base: Separating the Signal from the Noise*

**N. BARVILLE-DEROMAS, M.E. BOBILLIER-CHAUMON,** GRePS (EA 4163), Institut de Psychologie – Université Lyon 2 (France)

*Is the digital social network a new goldmine of collective efficiency?*

**K. STURM,** AUVA-Hauptstelle (Austria)

*AUVA apps for improved health and safety*

**O. TIRMARCHE,** Stimulus (France)

*Reducing the mental load caused by the use of ICT*

**G. BURNETT,** Research to Practice Office, NIOSH (USA)

*A smarter strategy for planning communication technology initiatives: A case study in mobile app development from non-developers*

**L. PONGE,** SECAFI (France)

*'Quality of work' and digital transformations: the example of customer service representatives in the banking sector*

### Session 2: The new computer-assisted production tools (30 March, 10:40 a.m. to 11:10 a.m.)

**P. NICKEL,** IFA (Germany)

*OSH improvements by a prevention through design approach based on simulated future work systems*

**N. VISPI, V. LENGOWSKI,** ARACT Nord-Pas de Calais (France)

*New production tools in SMBs: identifying the role and uses of simulation tools in project deployment*

**L. BUGAND,** ANACT (France)

*The use of digital simulation tools for a socio-political approach to prevention*

**C. STOESSEL, G. SALIOU, S. MBAYE,** OPUS Citatum (France)

*Prevention at the design stage for maintenance operations in dangerous industries*

**G. DEPRez, A. BATTISTELLI, J. VELLILA, C. ALLAIN,** Laboratoire de Psychologie EA 4139, Université de Bordeaux (France)

*Job crafting and psychological health: the mediating role of innovative work behaviour*

**V. GUILLOUX and C. QUERIAUD,** Solutions Productives (France)

*Augmented reality and real work: how can reality be augmented for and with work?*

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2017

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quels enjeux pour la prévention ?



**Session 3: Computer tools for management of production and information flows  
(30 March, 15:40 to 16:10)**

**O. ADROT, J.M. FLAUS**, Laboratoire G-SCOP, Université Grenoble Alpes (France)

*Advantages and benefits of the Internet of Things for occupational health and safety*

**D. PODGÓRSKI**, Central Institute for Labour Protection, National Research Institute (Poland)

*Applying big data analytics in OSH management – A review of forecasts, opportunities and challenges*

**M.P. BIJON**, MSA Sud Aquitaine (France)

*Digital sound processing for call centre agents*

**A. SKLAD, D. PODGÓRSKI**, Central Institute for Labour Protection - National Research Institute (Poland)

*KPI-OSH Tool – A software tool supporting safety-related decision making based on reliable OSH performance measurement*

**J. CRUZ, M. HERNÁNDEZ**, Industrial Engineering Faculty. University of Las Palmas de Gran Canaria (Spain)

*Geoposition techniques to prevent the exposure of golf course workers to chemical agents*