PROGRAMME

MAIN THEME

SAFETY MANAGEMENT COMPLEXITY IN CHANGING SOCIETY

Motto: DO WE NEED A HOLISTIC APPROACH?
German Social Accident Insurance – DGUV, Berufsgenossenschaften and Unfallkassen

The tasks and duties of the German social accident insurance system are based on three pillars:

• Prevention
• Rehabilitation
• Compensation

The German social accident insurance institutions – the Berufsgenossenschaften (BG) for industry and trade and the Unfallkassen (UK) for the public sector – are responsible, in a variety of ways, for occupational safety and health within companies as well as for kindergarten, schools and universities. Inspectors of the social accident insurance institutions have a wide scope of powers and responsibility, they are providing advice to and surveillance of companies and facilities in this area. In the event of an occupational accident or disease, the BGs work closely together with hospitals and doctors in private practice. The BGs also maintain their own clinics, which are specialized in the rehabilitation of accident victims and persons with occupational diseases. The principle is: The better the prevention work is executed, the less is to do in rehabilitation.

The services begin with first aid and primary medical care. They extend, where necessary, through rehabilitation to compensation in the form of financial benefits, finally in form of a pension. Resources are also available for social and occupational rehabilitation. The principle is that rehabilitation takes priority over pensions: the best possible rehabilitation measures are to be used in order for affected persons to be enabled to return to their professions, and to retain their independence and as much control as possible over their own lives.

The DGUV is the umbrella association of BGs and UKs. The institutions for statutory accident insurance and prevention (BGs) and the public-sector accident insurers (UKs) are members of the DGUV (the “German Social Accident Insurance”), the umbrella association which represents their interests, for example at political and on the European and the international level. In addition, the DGUV supports its members in all issues of a generic nature, develops common measures for prevention, promotes the ongoing development of rehabilitation, and addresses new methods and approaches in initial and further training.

Last but not least, the DGUV maintains its own three research institutes in Sankt Augustin (IFA), Bochum (IPA) and Dresden (IAG), which are specialized in the complex causal relationships between occupational exposure and health risks. In addition, suitable projects conducted by third parties are supported by a programme of external research funding.

Contact:
Dr. Sven Timm
Deutsche Gesetzliche Unfallversicherung (DGUV)
German Social Accident Insurance – Federation of the German statutory accident insurance and prevention institutions
Alte Heerstr. 111, D-53757 Sankt Augustin, Germany
email: sven.timm@dguv.de
Internet: www.dguv.de
# Content

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome Message</td>
<td>04</td>
</tr>
<tr>
<td>Committees</td>
<td>05</td>
</tr>
<tr>
<td>Organizers</td>
<td>06</td>
</tr>
<tr>
<td>Programme at a Glance</td>
<td>08</td>
</tr>
<tr>
<td>Technical Sessions List</td>
<td>10</td>
</tr>
<tr>
<td>Topics</td>
<td>11</td>
</tr>
<tr>
<td>Detailed Scientific Programme</td>
<td>12</td>
</tr>
<tr>
<td>Keynote Speakers Profiles</td>
<td>32</td>
</tr>
<tr>
<td>List of Posters</td>
<td>36</td>
</tr>
<tr>
<td>Technical Instructions for Speakers/Posters</td>
<td>37</td>
</tr>
<tr>
<td>Venue Plan</td>
<td>38</td>
</tr>
<tr>
<td>Social Events</td>
<td>39</td>
</tr>
<tr>
<td>Registration, Information and Support</td>
<td>41</td>
</tr>
<tr>
<td>Exhibition</td>
<td>42</td>
</tr>
<tr>
<td>General Information</td>
<td>43</td>
</tr>
<tr>
<td>Prague Metro Map</td>
<td>46</td>
</tr>
<tr>
<td>Partners gravy</td>
<td></td>
</tr>
</tbody>
</table>
WELCOME MESSAGE

Dear colleagues and friends,

It is my great pleasure and honour to welcome you warmly on behalf of both the National Organising and Scientific Committees at the 9th International Conference on the Prevention of Accidents at Work (WOS 2017), held on October 3–6 at Vienna House Diplomat Prague, Czech Republic.

This location gives us a special background. For many centuries, Prague – the capital of the Czech Republic, has been the city of rich culture, science and technology, where the nations and minorities have lived together sharing ideas and culture impulses, enriching mutually. This is where the exceptional atmosphere and beauty of Prague comes from and this spirit is present at our conference, too.

The theme of the conference “Safety management complexity in changing society” underpins the need for collaboration, knowledge and good practice exchange, mutual understanding and interdisciplinarity of safety management, which is facing dynamic societal conditions and the challenge of paradigms questioning.

I believe that the presence of more than two hundred experts from various disciplines contributing by almost one hundred and forty presentations and posters, as well as the opportunity of personal meetings and informal discussions, will foster the science and practice dealing with safety, promote deepening of cooperation and satisfy or even delight participants.

I hope that the WOS 2017 will provide a wonderful scientific forum bringing important progress and that you will enjoy not only the scientific program but the social programme in the breath-taking beauty of Prague as well.

I wish you experience a wonderful time of outstanding science and also take a little extra time to absorb the spectacular and unique spirit of this region. Enjoy the conference!

With best wishes,

Lucie Kocurkova
National Organizing and Scientific Committees Chair
COMMITTEES

National Organizing Committee
Lucie Kocurkova  VSB – Technical University of Ostrava
Jiri Vala  VSB – Technical University of Ostrava
Lenka Cerna  Association of Fire and Safety Engineering
Zuzana Bystricanova  Association of Fire and Safety Engineering
Robert Chlebis  Czech Technology Platform on Industrial Safety
Ivana Slovackova  Czech Technology Platform on Industrial Safety

National Scientific Committee
Pavel Polednak  VSB – Technical University of Ostrava
Ales Bernatik  VSB – Technical University of Ostrava
Pavel Danihelka  VSB – Technical University of Ostrava
Pavel Fuchs  Technical University of Liberec
Petr Blecha  Brno University of Technology
Jaroslav Stadnik  Ministry of Labour and Social Affairs
Rudolf Hahn  State Labour Inspection Office
Stanislav Maly  Occupational Safety Research Institute (VUBP)
David Michalik  Occupational Safety Research Institute (VUBP)
Tomas Tragan  RENOMIA a.s.
Miroslav Silar  ABB s.r.o.

International Committee
Kirsten Jørgensen  Technical University of Denmark (DTU)
Tore Larsson  KTH Royal Institute of Technology, Sweden
Walter Eichendorf  German Social Accident Insurance (DGUV)
Joy Oh  Ministry of Social Affairs and Employment, The Netherlands
Eirik Albrechtsen  Norwegian University of Science and Technology (NTNU)
Daniel Podgorski  Central Institute of Labour Protection (CIOP-PIB), Poland
Kate Field  IOSH – United Kingdom
Pedro Arezes  University of Minho, Portugal
Annick Starren  EU-OSHA
Jean-Christophe Le Coze  INERIS, France
Lucie Kocurkova  VSB – Technical University of Ostrava, Czech Republic
ORGANIZERS

Workingonsafety.net (WOS.net)
Workingonsafety.net (WOS.net) is an international network of decision-makers, researchers and professionals responsible for the prevention of accidents and trauma at work. The network aims to bring accident prevention experts together in order to facilitate the exchange of experience, new findings and best practices between different countries and sectors. It attracts researchers, policy makers, safety professionals, labour inspectors, labour administrators and other experts in the prevention of occupational accidents and trauma and join them together in a permanent international expert network. WOS.net is supported by the European Agency for Safety and Health at Work (EU-OSHA).

VSB – Technical University of Ostrava, Faculty of Safety Engineering
VSB – Technical University of Ostrava is a modern European university, whose pillars are built on more than 165 year long history. It provides tertiary education in technical and economic sciences across a wide range of degree programs and courses at the Bachelor’s, Master’s and Doctoral level. Education is organized within 7 faculties and 3 all-university degree programs. The Faculty of Safety Engineering is the youngest faculty of VSB – Technical University of Ostrava. The Faculty was established on the 1st August 2002 in response to the growing demand of practice for highly educated professionals in the area of safety engineering and for related scientific research activities. The establishment of the new faculty represented a continuation of a long-term process of development in scientific research activities and fields of study oriented towards safety and fire protection at VSB – Technical University of Ostrava. Graduates can take positions as members of fire protection services, designers, safety and security engineers in various organizations, and others. After gaining adequate practical experience and authorization, many graduates can find jobs in the private sector as well.
The Association of Fire & Safety Engineering
The Association of Fire & Safety Engineering has been put to life in the fall of 1993 and got registered in January 1994 at the Czech Interior Ministry. The reason for establishing a citizen’s association as a non-profit organization was based on an effort to create a platform for ongoing education of members and staff members of rescue services. The Association for Fire & Safety Engineering is the publisher in the Czech Republic that focuses and bears in mind special Fire protection and Industrial safety. The leading activity involves publishing and organizing national as well as international scientific conferences.

The Czech Technology Platform on Industrial Safety
The Czech Technology Platform on Industrial Safety (CZ-TPIS) is a civil association. The main objective of CZ-TPIS is to create networks and partnerships, to strengthen cooperation in the field of industrial safety, to promote the interests of professional organizations at both the Czech and European levels and to search for financial resources to support investment and research. The Czech Technology Platform on Industrial Safety was founded in 2007 pursuant to the resolution of the General Assembly initiated by the Faculty of Safety Engineering, VSB – Technical University of Ostrava. CZ-TPIS operates as a national platform (NTPIS) covered by European Technology Platform on Industrial Safety (ETPIS).
### PROGRAMME AT A GLANCE

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<td>Prague A+B</td>
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<td>15:00–19:00</td>
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<td><strong>Wednesday, October 4, 2017</strong></td>
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<tr>
<td>09:00–09:45</td>
<td><strong>Keynote Lecture</strong> Terje Aven</td>
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<td><strong>Keynote Lecture</strong> Olivier Salvi</td>
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<td>11:00–11:45</td>
<td><strong>Keynote Lecture</strong> Linda Bellamy</td>
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<td>11:45–12:30</td>
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<td>15:00–16:15</td>
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<td>16:45–18:00</td>
<td><strong>TS 1.4</strong></td>
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<td><strong>TS 3.2 + 3.5</strong></td>
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<td>20:00–22:00</td>
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<td><strong>Thursday, October 5, 2017</strong></td>
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| 09:00–09:45  | **Keynote Lecture**  
              | David Tjong |            |               |
| 09:45–10:30  | **Keynote Lecture**  
              | Janis Jansz |            |               |
| 10:30–11:00  | Coffee Break  |            |               |
| 11:00–12:30  | TS 1.4        | TS 5.1 + 5.2 | TS 3.3       |
| 12:30–13:30  | Lunch         |            |               |
| 13:30–14:45  | TS 4.3        | TS 5.2     | TS 3.2 + 3.4 |
| 14:45–15:00  | Break         |            |               |
| 15:00–16:15  | TS 4.4 + 4.1 + 4.2 | TS 1.1 + 1.3 | TS 3.4       |
| 16:15–16:45  | Coffee Break  |            |               |
| 16:45–18:15  | TS 5.3        | TS 6.1 + 6.2 + 6.3 | TS 3.2 (workshop) |
| 20:00–22:00  | Farewell Dinner |            |               |
|              |              |            |               |
| **Friday, October 6, 2017** |              |            |               |
| 09:00–09:45  | **Keynote Lecture**  
              | Pavel Danihelka |            |               |
| 09:45–10:30  | **Keynote Lecture**  
              | Hans-Horst Konkolewsky |            |               |
| 10:30–11:00  | Coffee Break  |            |               |
| 11:00–12:30  | TS 4.1        | TS 6.2     | TS 3.1 + 3.5 + 2.1 |
| 12:30        | Closing Ceremony |            |               |
TECHNICAL SESSIONS LIST

1. Foundations of safety science: theories, principles, methods and tools
   1.1 Emerging methods and tools in risk assessment for occupational accident prevention
   1.2 Confronting uncertainties, surprises and the unforeseen in occupational risk analysis
   1.3 Resilience vs risk-based regulatory approaches
   1.4 Developments in qualitative analysis of accidents, risk and safety – the methodological legacy of Barry Turner

2. Research to practice: achievements, lessons learned and challenges
   2.1 Translating and transfer of research outputs into practice
   2.2 OSH consequences of free movement of workforce
   2.3 Occupational safety for temporary workers and further challenges
   2.4 Controlling risks related to robots and other smart machinery of Industry 4.0 workplaces
   2.5 Impact of stress and fatigue on occupational safety

3. Risk management and safety culture: case studies, best practices and further needs
   3.1 Safe by design approaches to occupational accident prevention
   3.2 Safety climate and safety culture – assessment and promotion strategies
   3.3 Lessons learned from occupational accidents and near-misses
   3.4 Other sectoral case studies and good practices in occupational accident prevention
   3.5 Enterprise risk management approaches and tools to support decision making process

4. Safety regulation: reasonable practicable approach
   4.1 Role of different stakeholders in safety regulation
   4.2 Governmental vs non-governmental regulation
   4.3 The future of safety regulation
   4.4 Modern labour inspection practices

5. Education and Training: prerequisite for safety
   5.1 Role, knowledge and skills of OSH professionals towards accident prevention
   5.2 Effectiveness of OSH training in companies
   5.3 Integrating safety into mainstream education and professional and vocational training
   5.4 Raising public awareness of safety aspects

6. Complexity and safety: multidisciplinarity and inter-stakeholder view
   6.1 Understanding safety complexity: Which experts and which competences do we need?
   6.2 New generation of safety researchers
   6.3 Complexity in emerging OSH issues
## Detailed Scientific Programme

### Tuesday, October 3, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>15:00–19:00</td>
<td>Registration</td>
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<td>19:00–20:00</td>
<td>Opening and Welcome Cocktail</td>
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### Wednesday, October 4, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>09:00–09:45</td>
<td>Keynote Lecture</td>
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<td>Chair: Ales Bernatik</td>
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<td></td>
<td><strong>Foundations of risk assessment and management, with applications to occupational safety</strong></td>
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<td>Terje Aven (University of Stavanger &amp; International Research Institute of Stavanger, Norway)</td>
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<td>09:45–10:30</td>
<td>Keynote Lecture</td>
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<td>Chair: Ales Bernatik</td>
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<td><strong>From safety research to implementation of the results</strong></td>
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<td>Olivier Salvi (INERIS DEVELOPPEMENT SAS, France &amp; ETPIS)</td>
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<td>10:30–11:00</td>
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<td>11:00–11:45</td>
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<td>Chair: Tomas Tragan</td>
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<td><strong>Resilience in occupational accident prevention: Handling uncertainty in the workplace</strong></td>
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<td>Linda Bellamy (White Queen BV, the Netherlands)</td>
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<td>11:45–12:30</td>
<td>Keynote Lecture</td>
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<td>Chair: Tomas Tragan</td>
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<td><strong>Implementing a culture of prevention</strong></td>
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<td>Lars Hoffmann (Siemens, Germany)</td>
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<td>12:30–13:30</td>
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| 13:30–14:45| Prague A+B   | **TS 1.4 Developments in qualitative analysis of accidents, risk and safety – the methodological legacy of Barry Turner 1**  
Chair: Kenneth A. Pettersen  
Investigating safety and accidents with fieldwork and organizational ethnography: A review of 20 years of research  
**Kenneth A. Pettersen** (University of Stavanger, Stavanger, Norway)  
Two Different Qualitative Cyberneticians: Barry Turner and Jens Rasmussen  
**Patrick Waterson** (Human Factors and Complex Systems, Loughborough University, Loughborough, UK)  
Doing qualitative research in safety science  
**Stian Antonsen** (Safety Research, SINTEF Technology & Society, Trondheim, Norway)  
Conceptual ethnography in safety in the footsteps of Turner  
**Jean-Christophe Le Coze** (DRA HUGO, INERIS, Verneuil en Halatte, France) |
| 13:30–14:45| Prague C+D   | **TS 2.3 Occupational safety for temporary workers and further challenges + 2.4 Controlling risks related to robots and other smart machinery of Industry 4.0 workplaces + 2.5 Impact of stress and fatigue on occupational safety**  
Chair: David Michalik  
Ensuring contract worker safety in complex organisational systems  
**Jan Hayes** (RMIT University, Melbourne, Australia)  
Epidemiologic and temporal trends of work-related injuries in expatriate workers in a high-income rapidly developing country: evidence for preventive programs  
**Rafael Consunji** (Hamad General Hospital, Hamad Medical Corporation, A Unified Registry for Workplace Injury Prevention in Qatar (WURQ), Hamad Injury Prevention Program, Hamad Trauma Center, Doha, Qatar)  
Anticipating change: EU-OSHA’s foresight on new and emerging OSH risks associated with ICT and work location by 2025  
**Annick Starren** (Prevention and Research unit., EU-OSHA, Bilbao, Spain)  
Developments in working long and unsocial hours in a Danish prospective cohort study on family and work life  
**Hans H. K. Sonderstrup-Andersen** (People and Technology, Roskilde University, Roskilde, Denmark) |
13:30–14:45
Cracow I+II

TS 3.2 Safety climate and safety culture – assessment and promotion strategies 1
Chair: Miroslav Silar

Safety culture in a shipping company. Evidence from two surveys 13 years apart
Jon Ivar Håvold (Norwegian University of Science and Technology NTNU, Ålesund, Norway)

Road safety culture among HGV drivers in Norway and Greece: Why do Greek HGV drivers commit more aggressive violations in traffic?
Tor-Olav Nævestad (Institute of transport economics, Oslo, Norway)

Safety leadership at construction sites – The relative importance of leadership behaviours for safety climate, safety behaviour and accident occurrence
Martin Grill (Gothenburg University, Gotenburg, Sweden)

Construction site managers’ leadership practices and their influence on safety climate – an observational study of transformational, active transactional and passive/avoidant leadership
Kent J. Nielsen (Occupational Medicine, Regional Hospital West Jutland, Herning, Denmark)

International leading indicators for a culture of prevention
Ulrike Bollmann (International Cooperation, Institute for Work and Health of the German Social Accident Insurance (DGUV), Dresden, Germany)

14:45–15:00 Break
<table>
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<tr>
<th>Time</th>
<th>Session Code</th>
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<th>Speakers</th>
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<tr>
<td>15:00–16:15</td>
<td>TS 1.4</td>
<td>Developments in qualitative analysis of accidents, risk and safety – the methodological legacy of Barry Turner 2</td>
<td>Kenneth A. Pettersen</td>
<td>Matthew Whitehead <em>(Human Factors and Complex Systems, Loughborough University, Loughborough, UK)</em>&lt;br&gt;STS as grounded theory: Opportunities and examples in safety science <em>Torgeir K. Haavik</em> <em>(NTNU Social Research, Trondheim, Norway)</em>&lt;br&gt;Access, methods and knowledge: lessons from the past for the future <em>Mathilde S. Bourrier</em> <em>(Department of Sociology and Institute of Sociological Research, University of Geneva, Geneva, Switzerland)</em>&lt;br&gt;Understanding (organizational) Practices in Safety Research: Proximity versus Distance and some Research Implications <em>Tor Erik Evjemo</em> <em>(Department of Safety Research, SINTEF Technology and Society, Trondheim, Norway)</em>&lt;br&gt;Combining lenses – the pragmatics of methods employed in safety science <em>Trond Kongsvik</em> <em>(Department of Industrial Economics and Technology Management, NTNU, Trondheim, Norway)</em></td>
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<td>15:00–16:15</td>
<td>TS 2.1</td>
<td>Translating and transfer of research outputs into practice 1</td>
<td>Ivan Williams</td>
<td>Accidents at Brazilian electric distribution network: constructing prevention strategies from the collaborative analysis <em>Ildeberto M. Almeida</em> <em>(Public Health, Botucatu Medical School, Paulista State University (UNESP), Botucatu, Brazil)</em>&lt;br&gt;A network perspective on safety in a high reliability organization <em>Colin Pilbeam</em> <em>(School of Management, Cranfield University, Cranfield, UK)</em>&lt;br&gt;How does the nuclear industry learn from operating experiences? <em>Henriikka Ratilainen</em> <em>(Finnish Institute of Occupational Health, Helsinki, Finland)</em>&lt;br&gt;Development of a database for effective safety interventions <em>Jakko Van Kampen</em> <em>(National Institute for Public Health and the Environment, Bilthoven, the Netherlands)</em>&lt;br&gt;Hazards of non-classified materials – unexpected accidental explosions (case studies) <em>Pavel Dobes</em> <em>(Faculty of Safety Engineering, VSB – Technical University of Ostrava, Ostrava, Czech Republic)</em></td>
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<td>15:00–16:15</td>
<td>Cracow I+II</td>
<td>TS 3.2 Safety climate and safety culture – assessment and promotion strategies 2</td>
<td>Daniel Podgorski</td>
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<td>Translation of a safety culture training program from one industry context to another – important factors to consider</td>
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<td><strong>Ruth Ø. Skotnes</strong> (International Research Institute of Stavanger (IRIS), Stavanger, Norway)</td>
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<td>Safety culture assurance by auditing in a nuclear power plant construction project</td>
<td><strong>Teemu Reiman</strong> (Fennovoima, Helsinki, Finland)</td>
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<td>The Safety Culture Award competition in the Czech Republic and Slovakia</td>
<td>Ivana Slovackova</td>
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<td>Megatrends and their impact on work – challenges for OSH</td>
<td><strong>Sabine Herbst</strong> (German Social Accident Insurance (DGUV), Sankt Augustin, Germany)</td>
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<td>Promoting occupational health and safety – what is the role of co-operation?</td>
<td><strong>Hanna Uusitalo</strong> (Finnish Institution of Occupational Health, Tampere, Finland)</td>
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<td>16:45–18:00</td>
<td>Prague A+B</td>
<td>TS 1.4 Developments in qualitative analysis of accidents, risk and safety – the methodological legacy of Barry Turner 3</td>
<td>Kenneth A. Pettersen</td>
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<td>A situated knowledge management approach to improve occupational health and safety in the fire brigade</td>
<td><strong>Johan M. Sanne</strong> (IVL Swedish Environmental Research Institute, Stockholm, Sweden)</td>
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<td>Safety induction of young newcomers in the Danish metal industry: What happens in practice?</td>
<td><strong>Astrid Jørgensen</strong> (The National Research Centre for the Working Environment, Copenhagen, Denmark)</td>
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<td>The grey areas of rule bending in the transport sector – An ethnographic study</td>
<td><strong>Christian Henrik Alexander Kuran</strong> (Institute for Industrial Economics, Risk Management and Planning, University of Stavanger, Stavanger, Norway)</td>
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<td>A multi-perspective account of safety (MUPSY)</td>
<td><strong>Ragnar Rosness</strong> (SINTEF, Trondheim, Norway)</td>
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<td>TS 2.1 Translating and transfer of research outputs into practice 2</td>
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<td>+ 2.2 OSH consequences of free movement of workforce</td>
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<td><strong>Chair:</strong> Annick Starren</td>
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<td>From scientific knowledge to practice: Implementation of an uncertainty</td>
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<td>-based risk perspective in HSE Regulations</td>
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<td><strong>Ole Andreas Engen</strong> (<em>University of Stavanger, Stavanger, Norway</em>)</td>
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<td>Systematic review of safety interventions: what works for whom under</td>
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<td><strong>Johnny Dyreborg</strong> (*Division of Accident Prevention and Safety</td>
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<td>New Challenges in Occupational Safety in the Context of Industry 4.0</td>
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<td><strong>Ales Bernatik</strong> (*Faculty of Safety Engineering, VSB – Technical</td>
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<td>University of Ostrava, Ostrava, Czech Republic*)</td>
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<td>Potential safety influences of communication and language difficulties</td>
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<td>TS 3.2 Safety climate and safety culture – assessment and promotion</td>
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<td><strong>Chair:</strong> Ivana Slovackova</td>
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<td>Exploring Patterns of Multiple Climates and Their Effects on Safety</td>
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<td><strong>Martin Demcak</strong> (<em>SD&amp;HSE, Slovnaft, a.s., Bratislava, Slovakia</em>)</td>
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<td><strong>Toni Hyytinen</strong> (<em>Tampere University of Technology, Tampere, Finland</em>)</td>
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<td>Promoting a positive safety culture in the maritime industry by</td>
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<td><strong>Anna-Maria Teperi</strong> (*Safety Solutions, Finnish Institute of</td>
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<td>The role of insurance in enterprise risk management</td>
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<td><strong>Tomas Tragan</strong> (<em>RENOLOGIA, a. s., Brno, Czech Republic</em>)</td>
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<td>20:00–22:00</td>
<td><strong>Get Together Party</strong></td>
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### Thursday, October 5, 2017

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| 09:00–09:45 | Prague A+B+C+D | **Keynote Lecture**  
Chair: Pavel Danihelka  
Leadership Culture & Risk Management  
*David Tjong* *(Ideal Standard International, Belgium)* |
| 09:45–10:30 | Prague A+B+C+D | **Keynote Lecture**  
Chair: Pavel Danihelka  
Education and Training. Pre-requisite for safety  
*Janis Jansz* *(Curtin University & World Safety Organisation National Office for Australia & ILO Collaboration Research Centre, Australia)* |
| 10:30–11:00  |            | **Coffee Break**                                                        |
| 11:00–12:30 | Prague A+B | **TS 1.4 Developments in qualitative analysis of accidents, risk and safety – the methodological legacy of Barry Turner**  
Chair: Kenneth A. Pettersen  
Developments in analysis of severe adverse events in healthcare – Policy and practice in Norway  
*Siri Wiig* *(Health Studies, University of Stavanger, Stavanger, Norway)*  
From Safety to Cyber Security: New Organizational challenges in Industrial Control Systems (ICS)  
*Alberto Zanutto* *(School of computing, Lancaster University, Lancaster, UK)*  
Qualitative analysis of accidents, risk and safety – future perspectives. Summary and discussion across presentations in TS 1.4  
*Kenneth A. Pettersen* *(University of Stavanger, Stavanger, Norway)* |
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<td>11:00–12:30</td>
<td><strong>TS 5.1 Role, knowledge and skills of OSH professionals towards accident prevention + 5.2 Effectiveness of OSH training in companies 1</strong></td>
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<td><strong>Chair:</strong> Lucie Kocurkova</td>
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<td><strong>Bridging the divide between OHS and process safety</strong></td>
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<td><em>Trish Kerin (Safety Centre, Institution of Chemical Engineers, Melbourne, Australia)</em></td>
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<td><strong>What role do OHS professionals play in the construction of industrial safety?</strong></td>
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<td><em>Fanny Guennoc (INERIS and University of South Brittany, Lorient, France)</em></td>
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<td><strong>Building practical OSH skills of future safety professionals</strong></td>
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<td><em>Lucie Kocurkova (Faculty of Safety Engineering, VSB – Technical University of Ostrava, Ostrava, Czech Republic)</em></td>
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<td><strong>Safety learning among young newly employed in three trades – the role of the profession?</strong></td>
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<td><em>Regine Grytnes (Danish Ramazzini Center, Regional Hospital West Jutland – University Research Clinic, Herning, Denmark)</em></td>
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<td><strong>Addressing essential skills gaps in occupational health and safety training: a pilot study</strong></td>
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<td><em>Ron Saunders (Knowledge Transfer and Exchange, Institute for Work &amp; Health, Toronto, Canada)</em></td>
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<td><strong>Safety games for effective OSH training</strong></td>
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<td><em>Ivana Slovackova (Faculty of Safety Engineering, VSB – Technical University of Ostrava, Ostrava, Czech Republic)</em></td>
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| 11:00–12:30 | TS 3.3 Lessons learned from occupational accidents and near-misses  
Cracow I+II  
Chair: Kirsten Jørgensen |
|---|---|
| **Tragedy at the Kiss Nightclub: Between managerial failures and complex causality**  
*Ildeberto M. Almeida* (Public Health, São Paulo State University (UNESP), Medical School, Botucatu, Botucatu, Brazil) |
| **Accident Analysis as a Surveillance Tool in Workers’ Health**  
*Jose Marçal Jackson Filho* (Fundacentro/PR, Curitiba, Brazil) |
| **Capturing lessons learnt from an accident investigation to improve the management of geological hazards in construction**  
*Urban Kjellen* (Industrial Economics and Technology Management, NTNU, Trondheim, Norway) |
| **Hazardous constructions or contradistinctive contexts? Why there are more fatalities in the construction industry than in the petroleum industry in Norway**  
*Kinga Wasilkiewicz* (Department of Industrial Economics and Technology Management, Norwegian University of Science and Technology, Trondheim, Norway) |
| **Accidents in the construction industry in Norway: Identifying hazards, accident types, barrier failures and causal factors as a basis for prioritisation and developing preventive measures**  
*Stig Winge* (Department of Industrial Economics and Technology Management, Norwegian University of Science and Technology, Trondheim, Norway) |
| **A new accident causation model: its theory and applications**  
*Gui Fu* (China University of Mining and Technology, Beijing, Beijing, China) |
| 12:30–13:30 | Lunch |
### 13:30–14:45 Prague A+B

**TS 4.3 The future of safety regulation**

Chair: Joy Oh

- The future of health and safety legislation and the role of different stakeholders in occupational safety and health legislation
  - Olga Nicolaidou *(CERISE, European University Cyprus, Nicosia, Cyprus)*

- Responsive Regulation: Influencing WHS improvement in a high-risk industry
  - Peter Thorning *(Workplace Health and Safety Queensland (and Queensland University of Technology), Queensland Government, Brisbane, Australia)*

- Critical analysis on occupational safety and hygiene law and its implementation: a case study of Vietnam’s rubber industry
  - Tran T. N. Suong *(Ton Duc Thang University, Ho Chi Minh, Vietnam)*

- Dialogue in asymmetrical power relations – Modern safety regulation?
  - Ulla Forseth *(Department of Sociology and Political Science, Norwegian University of Science and Technology, Trondheim, Norway)*

- Foreseeing alternative futures of safety regulation
  - Marja Ylönen *(Technical Research Centre of Finland (VTT), Espoo, Finland)*

### 13:30–14:45 Prague C+D

**TS 5.2 Effectiveness of OSH training in companies 2**

Chair: Martin Demcak

- To sink or (to learn) to swim – why safety is not an issue in retail induction practices
  - Mette Lykke Nielsen *(The Danish Centre for Youth Research, Aalborg University, Copenhagen, Denmark)*

- Safety training parks – A case study on the effectiveness of the trainings
  - Tuula Räsänen *(Solutions for safety, Finnish Institute of Occupational Health, Tampere, Finland)*

- Predictors of safety training transfer support as in-role behavior of OHS professionals
  - Silvia Agostinho Silva *(ISCTE-IUL- Instituto Universitario de Lisboa, BRU-IUL, Lisboa, Portugal)*

- A concept for developing safety leadership competencies of the managers
  - Sari Tappura *(Tampere University of Technology, Tampere, Finland)*

- Traditional Learning vs Virtual Learning in maintenance operations: thoughts and reflections from a safety perspective
  - Alberto Martinetti *(Design, Production and Management, University of Twente, Enschede, the Netherlands)*
13:30–14:45
Cracow I+II

TS 3.2 Safety climate and safety culture – assessment and promotion strategies + 3.4 Other sectoral case studies and good practices in occupational accident prevention
Chair: Radka Prichystalova

External assessment of safety culture by inspectors of Post Seveso companies
Gerard Zwetsloot (Gerard Zwetsloot Research & Consultancy / Nottingham University, Amsterdam, the Netherlands)

A comparative questionnaire study of Swedish and Danish construction workers’ values, attitudes and perceptions of working conditions, with relevance for occupational safety
Anders Pousette (Gothenburg University, Gothenburg, Sweden)

Measures for preventing violence in emergency departments
Juha Vasara (Industrial and Information Management, Tampere University of Technology, Tampere, Finland)

Managing Addiction in the Workplace in the Czech Hard Coal Producer – OKD, a.s. Case Study
Kamil Kacer (Lindgrove, s.r.o., Hradec Kralove, Czech Republic)

Bad practice in the prevention of selected occupational injuries in the construction industry
Marek Nechvatal (Occupational Safety Research Institute – VUBP, v.v.i., Prague, Czech Republic)

14:45–15:00 Break
**15:00–16:15**

**Prague A+B**

**TS 4.4 Modern labour inspection practices + 4.1 Role of different stakeholders in safety regulation + 4.2 Governmental vs non-governmental regulation**

**Chair:** Pavel Danihelka

- **Update on Labour Inspection in the Czech Republic**
  *Pavel Heisig (State Labour Inspection Office, Opava, Czech Republic)*

- **Development of tailored safety performance metrics for the inspection in Chinese enterprises**
  *Yunxiao Fan (School of Eng. & Tec., China University of Geosciences (Beijing), Beijing, China)*

- **Risk-based labour inspection by means of machine learning**
  *Øyvind Dahl (Safety Research, SINTEF Technology and Society, Trondheim, Norway)*

- **Managing Safety-Related Compliance in Differing Market Areas**
  *Juha Vasara (Industrial and Information Management, Tampere University of Technology, Tampere, Finland)*

- **Tools for Vision zero to come true**
  *Sven Timm (Central Prevention Division, German Social Accident Insurance DGUV, Sankt Augustin, Germany)*

- **How deregulation can become overregulation. An empirical study into the growth of internal process and bureaucracy when governments take a step back**
  *Kristine V. Storkersen (NTNU Samfunnsforskning/Societal Research, Trondheim, Norway)***
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<td>15:00–16:15</td>
<td>TS 1.1</td>
<td>Emerging methods and tools in risk assessment for occupational accident prevention + 1.3 Resilience vs risk-based regulatory approaches</td>
<td>Pavel Dobes</td>
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<td><strong>Influence of temperature and surroundings humidity on scaffolding work comfort</strong></td>
<td>Patrycja Cyniak (Faculty of Civil Engineering, Architecture and Environmental Engineering, Łódź University of Technology, Łódź, Poland)</td>
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<td><strong>Gender differences in work-related upper limb symptoms – Do we need to consider a gender-sensitive risk assessment?</strong></td>
<td>Birgit A. Greiner (Epidemiology &amp; Public Health, University College Cork, Cork, Ireland)</td>
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<td><strong>Safety science, and safety management, from the 1970s till Piper Alpha</strong></td>
<td>Paul Swuste (Safety Science Group, Delft University of Technology, the Netherlands, Delft, the Netherlands)</td>
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<td><strong>Resilience Story Cards: a practical tool that helps decision-making in uncertainty</strong></td>
<td>Monique Chambon (National Institute for Public Health and the Environment (RIVM), Bilthoven, the Netherlands)</td>
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<td><strong>Risk Regulatory dilemmas in Socio-technical systems</strong></td>
<td>Ole Andreas Engen (SEROS-Centre of Risk Management and Societal Safety, University of Stavanger, Stavanger, Norway)</td>
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<td>TS 3.4 Other sectoral case studies and good practices in occupational</td>
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<td>What are the safety outcomes of “Traffic Safe Municipalities”?</td>
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<td>Swedish strategies for injury prevention in agriculture</td>
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<td><em>Peter Lundqvist</em> (Department of Work Science, Business Economics</td>
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<td>OSH management in waste management companies in Portugal:</td>
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<td><em>Matilde A. Rodrigues</em> (Environmental Health, School of Health of</td>
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<td>Polytechnic Institute of Porto, Porto, Portugal)</td>
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<td>Patterns of safety. Overarching results and conclusions</td>
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<td><em>Marianne Törner</em> (Occupational and Environmental Medicine, Sahlgrenska</td>
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<td>A model for managing OHS in Finnish vocational training</td>
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<td><em>Sari Tappura</em> (Tampere University of Technology, Tampere, Finland)</td>
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<td>TS 5.3 Integrating safety into mainstream education and professional and vocational training</td>
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**Chair:** Janis Jansz

**Training of non-technical skills for maritime officers: a prerequisite for safety**
*Aud Wahl* *(Department of Industrial Economics and Technology Management, NTNU, Trondheim, Norway)*

**Biorhythm for injury prevention and safety awareness in VET: An Indian case study**
*Pravinkumar Digambarrao Ukhlikar* *(Government Industrial Training Institute Latur Maharashtra State India, Latur, India)*

**The integration of safety and health into the education chain: an empirical study of good-practice examples on www.enetosh.net**
*Róbert Gründler* *(WissensImpuls, Dresden, Germany)*

**Training plan for volunteers in H&S**
*Alicia Prieto-Sanchez* *(Civil Proteccion volunteer, SAMUR-Protección Civil, Madrid, Spain)*

**Integrating Safety into Mainstream Education and Professional and Vocational Training**
*John N. Coudounaris* *(Department of Labour Inspection Cyprus, Nicosia, Cyprus)*

**An experience of University Education on Occupational Safety and Health at Politecnico di Torino**
*Elisabetta De Cillis* *(Department of Environment, Land and Infrastructure Engineering (DIATI), Polytechnic, Turin, Italy)*
16:45–18:15
Prague C+D

**TS 6.1 Understanding safety complexity: Which experts and which competences do we need?**
+ **6.2 New generation of safety researchers**
+ **6.3 Complexity in emerging OSH issues**

**Chair:** Jean-Christophe Le Coze

**Responses to institutional complexity associated with safety requirements in a large nuclear industry project**

*Nadezhda Gotcheva* (VTT Technical Research Centre of Finland Ltd., Tampere, Finland)

**“Healthy Workplaces for all Ages” – Age related changes and occupational health and safety**

*Cleo Varianou Mikellidou* (CERISE, European University Cyprus, Nicosia, Cyprus)

**Sensework**

*Torgeir K. Haavik* (NTNU Social Research, Trondheim, Norway)

**New direction in safety research – a new generation of safety researchers**

*Jean-Christophe Le Coze* (DRA HUGO, INERIS, Verneuil en Halatte, France)

**Towards actionable safety science**

*Kaupo Viitanen* (VTT Technical Research Centre of Finland, Espoo, Finland)

**Situation and Factors of Aggressive Behavior against Railway Station Staff in Japan Surveyed through Passengers’ Perceptions**

*Yasunori Okada* (Human Science, Railway Technical Research Institute, Tokyo, Japan)
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 16:45–18:15     | Workshop TS 3.2: Prevention cultures and OSH interventions – opening the black box of impact mechanisms in times of global changes of work  
**Chair:** Britta Schmitt-Howe |
| Opening – welcome by the chair, purpose and agenda for the session  
Safety and Health in Micro and Small Firms in the European Union: Reflections from a study in nine Member States  
**David Walters** (Cardiff Work Environment Research Centre, UK) |
| What kind of prevention cultures are prevailing? – Typical dialogues on occupational safety and health in German companies  
**Britta Schmitt-Howe** (Federal Institute for Occupational Safety and Health, Berlin, Germany) |
| How to understand mechanisms that should make policy instruments impact workplace prevention  
**Klaus T. Nielsen** (Centre for Working Life Studies, Roskilde University, Denmark) |
| Mandatory OHS management is mostly an ineffective ‘side-car’ because employers delegate it away to un-empowered line managers  
**Kaj Frick** (Lulea Technical University, Sweden) |
| Prevention cultures and OSH interventions – European experiences with implementing the Zero Accident Vision (and its potentials for health and wellbeing at work)  
**Gerard Zwetsloot** (Gerard Zwetsloot Research & Consultancy, Amsterdam, the Netherlands & Nottingham University, UK) |
| Discussion with the participants on impact mechanisms in times of global change |
| 20:00–22:00     | Farewell Dinner                                                        |
### Friday, October 6, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
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</table>
| 09:00–09:45| Prague A+B+C+D | **Keynote Lecture**  
Chair: Lucie Kocurkova  
Looking at safety: can we see one picture?  
Pavel Danihelka (VSB-TUO & Czech Technology Platform on Industrial Safety, Czech Republic) |
| 09:45–10:30| Prague A+B+C+D | **Keynote Lecture**  
Chair: Lucie Kocurkova  
“Vision Zero” – a non-governmental approach to safety  
Hans-Horst Konkolewsky (International Social Security Association, ISSA, Denmark) |
| 10:30–11:00|             | **Coffee Break**                                                                   |
| 11:00–12:30| Prague A+B  | **TS 4.1 Role of different stakeholders in safety regulation**  
Chair: Walter Eichendorf  
Fire safety regulation in practice: Challenges and achievements  
Marta Sousa (CATIM – Technological Center for the Metal Working Industry, Porto, Portugal)  
Work-related accidents in Norwegian road, sea and air transport: roles and responsibilities  
Tor-Olav Nævestad (Institute of transport economics, Oslo, Norway)  
Safety in the Arctic – the role of regulation and different stakeholders  
Hanna Barbara Rasmussen (Centre of Maritime Health and Society, University of Southern Denmark, Esbjerg, Denmark)  
The media and public action: online press coverage of an accident investigation in the road construction sector  
Jose Marçal Jackson Filho (CEPR, FUNDACENTRO, Curitiba, Brazil)  
Societal risk governance in municipalities is based on a weak regulatory regime and unclear professional competence  
Ove Njå (University of Stavanger, Stavanger, Norway) |

**Note:** The above events are part of the 9th International Conference on the Prevention of Accidents at Work, held in Prague, Czech Republic, on October 3–6, 2017.
11:00–12:30
Prague C+D

**TS 6.2 New generation of safety researchers 2**

**Chair:** Jean-Christophe Le Coze

- **Differentiation, boundaries and safety culture**
  *Stian Antonsen* (Department of Safety Research, SINTEF Technology and Society, Trondheim, Norway)

- **The socio-technical drift of reliability**
  *Kenneth A. Pettersen* (University of Stavanger, Stavanger, Norway)

- **Visualising Safety**
  *Jean-Christophe Le Coze* (DRA HUGO, INERIS, Verneuil en Halatte, France)

- **Organizational trends towards standardization, and what this means for safety and resilience**
  *Petter G. Almklov* (Studio Apertura, NTNU Social Research, Trondheim, Norway)

- **Safety-I and Safety–II, Resilience and Antifragility paradigm: new investigation opportunities for young safety researchers**
  *Alberto Martinetti* (Design, Production and Management, University of Twente, Enschede, the Netherlands)

- **Some results of a modern approach to the Occupational Safety and Health problems**
  *Paolo Fargione* (Department of Environment, Land and Infrastructure Engineering (DIATI), Polytechnic, Turin, Italy)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Content</th>
</tr>
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</table>
| 11:00–12:30  | Cracow I+II  
  TS 3.1 Safe by design approaches to occupational accident prevention 
  + 3.5 Enterprise risk management approaches and tools to support 
  decision making process + 2.1 Translating and transfer of research 
  outputs into practice  
  Chair: Radka Prichystalova  
  Improving occupational safety in in-house logistics with the aid 
  of digital measures  
  Pia Perttula (Finnish Institute of Occupational Health, Helsinki, Finland)  
  Working practices to reduce accidents and improve safety 
  behaviours: a literature review  
  Colin Pilbeam (School of Management, Cranfield University, Cranfield, UK)  
  Chemical hazard risk in emergency services  
  Alicia Prieto-Sanchez (SAMUR-Protección Civil, Madrid, Spain)  
  Applying Pareto approach in the prevention of occupational accidents 
  in cement industry – a case study at Holcim Vietnam cement company  
  Tinh Xuan Thai (Ton Duc Thang University & Holcim Cement Company, 
  Ho Chi Minh, Vietnam)  
  HSEQ assessment audit tool – consistency analysis of expert audits  
  Henri Jounila (Industrial engineering and management, University of Oulu, 
  Oulu, Finland)  
  Reducing risk amongst those driving during work  
  Mark J. M. Sullman (Cranfield University, Cranfield, UK) |
| 12:30        | Closing Ceremony                                                                |
KEYNOTE SPEAKERS PROFILES

Terje AVEN
Professor of Risk analysis and Risk management at University of Stavanger (Norway); Principal researcher at International Research Institute of Stavanger (IRIS)

Topic: 1. Foundations of safety science: theories, principles, methods and tools
Title: Foundations of risk assessment and management, with applications to occupational safety

Short introduction: In this talk Professor Terje Aven will present and discuss some recent advances on the foundation of risk assessment and management related to the conceptualisation, analysis and characterisation of risk. Occupational safety applications will be highlighted. Key topics include: What is risk? How to best describe risk? How to treat uncertainties? How to reflect knowledge in risk assessments? How to take into account potential surprises (black swans)? The discussion will also address some management and decision-making issues related to the use of risk assessment.

Olivier SALVI
President of INERIS DEVELOPPEMENT SAS (France); General manager of EU-VRi; Secretary General of ETPIS

Topic: 2. Research to practice: achievements, lessons learned and challenges
Title: From safety research to implementation of the results

Short introduction: In the context of an intense production of knowledge and development of new technologies, the main challenge for risk researchers is the timely and efficient use of their research results to support risk-based decision making. The keynote discusses the role of scientific experts as support to authorities and industry and describes several initiatives contributing to bring together the stakeholders involved in risk management and to transfer to the practitioners the knowledge and technologies gained through research. The paper describes in particular initiatives aiming at transferring research results to standardization (example of the EC Funded nanoSTAIR project, www.nanostair.eu-vri.eu); the creation of platforms to enhance interactions between research, industry, policymakers, NGOs, trade unions and regulators (example of the European Technology Platform on Industrial Safety, www.industrialsafety-tp.org), or the ERA-NET instrument for research programming enabling to organise joint call for projects funded by several governments or research funding agencies (example of the ERA-NET on industrial safety – SAF€RA, www.safera.industrialsafety-tp.org and the history of the joint calls are at: www.safera.eu).
Linda BELLAMY
Managing Director and Consultant at White Queen BV (the Netherlands)

Topic: 2. Research to practice: achievements, lessons learned and challenges
Title: Resilience in occupational accident prevention: Handling uncertainty in the workplace.

Short introduction: How has the term resilience been used historically in different contexts and what does it mean in the workplace with respect to occupational safety? It is proposed that resilience is appropriate for dealing with situations where there is high uncertainty and where the normative approach for foreseen risks is not applicable, including the way in which accidents are analysed for lessons learned. Resilient characteristics of organisations and individuals have been identified, which are considered to increase the chance of a successful response when faced with the unexpected. It is suggested that the approach to accident prevention should include examination of successful responding in cases of recovering from the unexpected, including those cases where a good result is attributed to “luck”.

David TJONG
Global Director of HS&E at Ideal Standard International (Belgium) – responsible for the European, Middle East & Africa, Asia Pacific and South America region

Topic: 3. Risk management and safety culture: case studies, best practices and further needs
Title: Leadership Culture & Risk Management

Short introduction:
• Leadership is the key for everything we do. For Health and Safety, it is no exception
• Share quote from a renowned Leadership Expert
• Start with Why, with the Strategy, Culture and Process of Continuous Improvement
• Apply Root Cause / Safeguard Analysis, refine risk assessment by implementing additional controls and not relying on Human Performances
Lars HOFFMANN  
*Vice President for Occupational Health and Safety and Technical Risks at Siemens (Germany)*

**Topic:** 3. Risk management and safety culture: case studies, best practices and further needs  
**Title:** Implementing a culture of prevention

**Short introduction:** Safe behaviour is not only determined by rules, regulations and procedures alone but also through personal values, attitudes and the commitment of management and employees. Zero Harm Culture @ Siemens is a global program to raise awareness on occupational health and safety and to sustainably improve health and safe behaviour. It starts with the leadership and commitment of managers and can only become a living corporate culture if everyone contributes.

Hans-Horst KONKOLEWSKY  
*Secretary General of the International Social Security Association, ISSA (Denmark)*

**Topic:** 4. Safety regulation: reasonable practicable approach  
**Title:** “Vision Zero” – a non-governmental approach to safety

**Short introduction:** There is a growing international consensus that efforts to develop a global prevention culture should be reinforced and that both governmental and non-governmental regulation are critical in order to reduce the unacceptably high number of work accidents and occupational diseases worldwide. The ISSA has on this background developed a new prevention campaign, called “Vision Zero”, which aims to mobilise business leaders to integrate safety, health and well-being at work in their core management function as well as company culture. The campaign will be launched at the XXI World Congress for Safety and Health at Work in September 2017 in Singapore.
Janis JANSZ
Senior lecturer at Curtin University (Australia); Director of World Safety Organisation National Office for Australia; Director of the ILO Collaboration Research Centre

Topic: 5. Education and Training: prerequisite for safety
Title: Education and Training. Pre-requisite for safety.

Short introduction: This presentation examines why there is a need to provide occupational safety and health education and training. The history of workplace health and safety education and training is traced through British legislation, the International Labour Organisation (ILO) and through Australian law. Case studies and examples of what is currently included in work related safety and health education for children, people in the workplace, for the public, and the benefits of this education, are included.

Pavel DANIHELKA
Professor of Risk management and Chemical safety at VSB-TUO (Czech Republic); President of Czech Technology Platform on Industrial Safety (CZ-TPIS)

Title: Looking at safety: can we see one picture?

Short introduction: Safety has become to be a “buzzword” of modern society, including many aspects of OHS. Even if important research work has been performed and several stakeholders act in various position in safety management, the problem persists in insufficient mutual understanding between scientific disciplines and among stakeholders. The reason is partly in narrow scientific visions and separated stakeholders’ interests, but more complex aspects are observed, too. At least three vast scientific domains should be involved in parallel (natural, social and technical sciences). To overcome this gap, we need to create the system of multidisciplinary communication and complexity understanding, including the education of new kind of experts – “generalists” in safety. Complexity of safety, involving many feedbacks, may lead to paradigm change, e.g. to involvement of chaos theory, as well.
LIST OF POSTERS

TS 1.1 Emerging methods and tools in risk assessment for occupational accident prevention
P-01 – Statistical methods for assessing workplace risks
Vladimira Pospisil & Ales Bernatik (Faculty of Safety Engineering, VSB – Technical University of Ostrava, Ostrava, Czech Republic)

TS 1.2 Confronting uncertainties, surprises and the unforeseen in occupational risk analysis
P-02 – Occupational safety and health for personnel in four Danish emergency departments
Marie L. Kirkegaard (National Research Centre for the Working Environment, Copenhagen, Denmark)

TS 1.3 Resilience vs risk-based regulatory approaches
P-03 – Spanish validation of the short-form version of the benchmarking resilience tool: A useful instrument to evaluate resilience in organizations
Lila Gonçalves Oliveira (Department of Environment – Sociotechnical Research Centre (CISOT), CIEMAT (Centro de Investigaciones Energeticas, Medioambientales y Tecnologicas), Barcelona, Spain)

TS 2.1 Translating and transfer of research outputs into practice
P-04 – An intervention strategy to reduce slips, trips and falls in the health care sector
Sanny Shamoun (Organizations, Products & Processes: Sustainable Working Life, IVL Swedish Environmental Research Institute, Stockholm, Sweden)

TS 5.3 Integrating safety into mainstream education and professional and vocational training
P-05 – Monitoring of Lighting in a School Classroom
Ivana Turekova (Faculty of Education, Department of Technology and Information Technology, Constantine the Philosopher University in Nitra, Tr. A. Hlinku 1, 949 74, Nitra, Nitra, Slovakia)

P-06 – Evaluation of a safety education program for secondary school students: A case study in vocational schools
Matilde A. Rodrigues (Environmental Health, Research Centre on Environment and Health, School of Health of Polytechnic of Porto, Porto, Portugal)

TS 5.4 Raising public awareness of safety aspects
P-07 – Occupational Safety and Health and Environmental Safety criticalities depending on geo-economic areas: a focus on mining and quarrying activities
Paolo Fargione (Dipartimento di Ingegneria dell’Ambiente, del Territorio e delle Infrastrutture (DIATI), Politecnico di Torino, Torino, Italy)
TECHNICAL INSTRUCTIONS FOR SPEAKERS/POSTERS

Instructions for Speakers
Please come to the Meeting Room where you have your presentation at least 1 ½ hour before the beginning of your session (during the break). In case your speech has been scheduled for morning session please come one day before the day of your presentation.

Other information
• During your lecture you will be using Remote Control for controlling your presentation.
• Your own notebook is allowed to use for presentation only after discussion with technician on-site.
• All presentations will be deleted from all the PC used during the Conference.

Instructions for Posters
The Poster Area is located in the Budapest Meeting Room Foyer. Posters are organized according to the ID numbers.

Poster session timing
Authors are invited to put up their posters from Tuesday, October 3 from 15:00 till 19:00. The poster sessions will be officially open on Wednesday, October 4 from 9:00.

Posters will be displayed until Friday, October 6, 12:45. We kindly ask the presenters to remove the posters preferably before 13:30 otherwise they will be removed and discarded.

Authors are kindly requested to be present at his/her poster during breaks for discussion.

Poster on display
ALL POSTERS, ALL MEETING DAYS
VENUE PLAN

Prague Foyer
Exhibition

Prague A+B
Keynote Lectures & Parallel Sessions

Prague C+D

Budapest Foyer
Poster Area

Cracow I+II
Parallel Sessions

Loreta I
Lunch

Registration

Vienna I
Quiet Room
SOCIAL EVENTS

Welcome Cocktail
Date: October 3, 2017
Venue: Vienna House Diplomat Prague, Roof Terrace
Time: 19:00–20:00
Price: included in the registration fee, entrance upon the conference badge presentation
Dress Code: Smart Casual

The Roof Terrace of the Vienna House Diplomat Prague offers a breath taking panorama over the rooftops of Prague — the perfect place for a sundowner after a productive day. Just lean back and enjoy the view of Prague Castle.

Good mood, drinks and finger-food provided!

Get Together Party
Date: October 4, 2017
Venue: Great Monastery Restaurant, Strahovske nadvori 302, Prague 1
Time: 20:00–22:00
Price: included in the registration fee, entrance upon the conference badge presentation
Dress Code: Smart Casual
Bus Departure from the Conference Hotel: 19:15
Bus Departure from the Great Monastery Restaurant to the Conference Hotel: 22:15

Get Together Party will be placed at the Great Monastery Restaurant, located in the premises of the Premonstratensian Strahov Monastery, just a few steps from the Prague Castle. Premonstratensian monastery at Strahov was founded in 1140 by the Bishop of Olomouc, Jindrich Zdik, with the support of the Czech Prince, and later king Vladislav II. A huge complex standing at the outset of the Royal Way offers pleasant dining in the historical Great Monastery Restaurant. For centuries, Strahov Monastery has been a centre of culture and art. Since the 18th century, a valuable painting collection has been situated in its picture gallery. Strahov's library is also very interesting and precious. A unique collection of Czech incunabula is one of Strahov's jewels.
Farewell Dinner

Date: October 5, 2017
Venue: Boat Europe, Na Frantisku 15, Prague 1
Time: 20:00–22:00
Price: included in the registration fee, entrance upon the conference badge presentation
Dress Code: Semi Formal
Bus Departure from the Conference Hotel: 19:15
Bus Departure from the Boat to the Conference Hotel: 22:15

Europe is a salon motor boat, one of the largest boats operated on the Vltava river in Prague. The boat is divided into two screened heated decks, one sundeck, and one screened garden. Don’t miss the opportunity to meet your colleagues again on the beautiful river Vltava and enjoy the wonderful surroundings of Prague from another perspective!

Student Photography Award

The Student Photography Award was announced at the Faculty of Safety Engineering VSB – Technical University of Ostrava in relation to WOS 2017 conference. The photographs on occupational accidents prevention (examples of good or poor practices) will be displayed in the Budapest Foyer (Poster Area). Students of the winning photographs will be awarded during the Closing Ceremony.
REGISTRATION, INFORMATION AND SUPPORT

Registration Desk Opening Hours

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Tuesday, October 3, 2017</td>
<td>15:00–20:00</td>
</tr>
<tr>
<td>Wednesday, October 4, 2017</td>
<td>08:30–18:00</td>
</tr>
<tr>
<td>Thursday, October 5, 2017</td>
<td>08:30–18:00</td>
</tr>
<tr>
<td>Friday, October 6, 2017</td>
<td>08:30–12:30</td>
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</tbody>
</table>

Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
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<tbody>
<tr>
<td>Participant</td>
<td>690 EUR</td>
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<tr>
<td>Participant from a country belonging to the Eastern European Group*</td>
<td>350 EUR</td>
</tr>
<tr>
<td>Ph.D. student</td>
<td>350 EUR</td>
</tr>
<tr>
<td>Accompanying person</td>
<td>170 EUR</td>
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*The list of countries belonging to the Eastern European Group is defined by UN.

The Registration Fee includes:

**Participants, participants from East European countries, students**
- Admission to the Conference Scientific Sessions
- Admission to the Exhibition & Poster Area
- Conference Materials
- Book of Abstracts
- Coffee Breaks
- Lunches – October 4 and 5
- Welcome Cocktail on October 3, 2017
- Get Together party on October 4, 2017
- Farewell Dinner on October 5, 2017
- VAT

**Accompanying Persons**
- Welcome Cocktail on October 3, 2017
- Prague Sightseeing Tour on October 4, 2017
- Get Together Party on October 4, 2017
- Farewell Dinner on October 5, 2017
- VAT
EXHIBITION

The exhibition area is situated in the foyer of the meeting rooms, coffee breaks will be served in this area.

Exhibition Opening Hours

<table>
<thead>
<tr>
<th>Date</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Wednesday, October 4, 2017</td>
<td>08:45–18:00</td>
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</tr>
<tr>
<td>Friday, October 6, 2017</td>
<td>08:45–12:30</td>
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List of Exhibitors

SINGING ROCK
UNIVERSAL SITE MONITORING
WARNINGHANDLE.COM
GENERAL INFORMATION

Conference Venue
Vienna House Diplomat Prague****
Evropska 15, 16041 Prague
Phone: +420 296 559 111

Quiet Room
Quiet Room is situated in the Meeting Room Vienna I. The Quiet Room is intended for those who require quiet place. Please do not disturb others with loud conversation and kindly switch off the sound on your laptops, tablets and mobile phones.

Currency and Banking
Czech Crowns are the official currency in the Czech Republic. Foreign currency exchange is available at Vaclav Havel Airport Prague and at most hotels, banks and exchange offices throughout the city. International credit cards are accepted for payment in hotels, restaurants and shops. Paying by cash in Euro is also possible in some restaurants and shops.


Electricity
The Czech Republic uses a 230 volt 50 Hz system. Sockets are the standard European type (two-prong round pin plugs with a hole for a male grounding pin are standard). To use electric appliances from your country you may need a special voltage converter with an adapter plug.

Good to Know
Complete information is available at the official website of the Czech Republic at www.czech.cz.

Important Telephone Numbers
112: General Emergency for Europe
150: Fire
155: Ambulance
156: Prague Police
158: Police

Liability and Insurance
The organisers do not accept responsibility for individual medical, travel or personal insurance. All participants are strongly advised to take out their own personal insurance before travelling to the Conference.

Official Language
The official language of the Conference is English.
Programme Changes
The organisers cannot assume liability for any changes in the programme due to external or unforeseen circumstances.

Public Transport
Prague has a very sophisticated subway, tram and bus transport system. The Prague underground is quite new and efficient. At peak times, trains run every 2 or 3 minutes, and during off-peak hours at least every 8–10 minutes. You can find more information about Prague public transport on the web pages: www.dpp.cz/en/

24-hour pass 110 CZK / 4.2 EUR
3-day pass (72 hours) 310 CZK / 11.60 EUR

Time Zone
The Czech Republic one hour ahead of GMT and at the time of the Conference this will be GMT +2 due to Summer Daylight Saving Time.

Taxi Service
In the city centre, taxis are easy to take from the street, but we strongly recommend you use hotel taxis or call taxi by phone via a radio taxi service.

We recommend using the following taxi companies:
Profi Taxi +420 261 314 151 or +420 844 700 800
AAA Taxi +420 222 333 222 or +420 2211 0 2211

The official fare is approximately 30 CZK per kilometer and the starting rate is approximately 40 CZK. Please check the price which should be listed on the car, before you get in.

Tipping
Service is usually included in the bill in bars and restaurants but tips are welcome. If you consider the service good enough to warrant a tip, we suggest about ten percent.

Shopping
Most shops in Prague are open from 9:00 to 18:00, Monday till Saturday. Shops in the city centre are usually open from 9:00 to 20:00, Monday till Sunday.

WiFi
WiFi will be available in the exhibition foyer.
Username: Diplomat By Vienna House
The Faculty of Safety Engineering combines a unique set of research areas and fields of study to meet the growing demand for highly educated professionals in the area of safety engineering. The Faculty carries out the following main activities:

- Pedagogical Activities
- Research and Development
- Expert Consulting
- Contract Research for the Public and Private Sector

**Education characteristics**
- Bachelor’s Degree (4 years)
- Follow-up Master’s Degree (2 years)
- Ph.D. Degree
- In full-time and part-time modes

These education, RandD and consulting services are carried out broadly in the areas of:

- Risk Research and Management
- Fire Protection
- Occupational and Process Safety
- Industrial Safety
- Major Accident Prevention
- Safety and Security Planning
- Protection of Population in Natural Disasters
- Protection of Critical Infrastructure
- Safety and Security Services
- Environmental Safety and Security
- Safety of Nanomaterials and Nanotechnologies
PARTNERS

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Spitzenverband

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ETPIS Industrial Safety

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In cooperation with

som
Society of Occupational Medicine