Learning from International Cooperation

Remarks of a German OSH Institute

VIIth International Occupational Health and Safety Conference

Prof. Dr. Dietmar Reinert
Overview

• Zero Accident Vision in Germany
• Cooperating in PEROSH projects
• EU OSHA research priorities
• EU OSHA risk observatory
• ISSA world congress
• Summary
The Finnish Zero Accident Forum

In cooperation with:
Principles

- All accidents can be prevented.
- Accidents do not happen by accident.
- Learning is a key to success.
Zero Accident Forum in Finland since 2003

- Voluntary-based safety network coordinated by FIOH and supported by the Ministry of Social Affairs and Health.

- Currently more than 300 member organisations across the country.

- These organisations employ more than 330,000 people (equals to 14% of the Finnish working population).

- The Forum covers 44 various economic branches – e.g. industry, construction, energy production, mining, logistics, hospitals and municipalities.

- Annual fee depends on the size of the company (5 categories).
Commitments of members

1. We want to **improve** our occupational safety towards Zero Accident in order to become one of the forerunners of safety in the workplace.

2. We **omit** ourselves openly to **supplying** other workplaces with information on best practices of occupational safety.

3. We will improve the safety at our workplace in **co-operation** with our employees and management.

4. Health and safety are an integral part of the **successful business** operations at our workplace.

5. We commit ourselves to **taking action** at our workplace regarding occupational health and safety.

6. We commit ourselves to supplying the Zero Accident Forum project group with the appropriate information on occupational safety **annually**.
VISION ZERO.

KEINER KOMMT UM. ALLE KOMMEN AN.
Vision Zero: Fatal and severe accidents and occupational diseases can completely be avoided → Check the past!

Vision Zero is the fundamental prevention strategy of the DGUV and the German Road Safety Council (DVR)

The DGUV autonomous administration adopted the Vision ZERO within its principles on prevention in November 2008

In addition, the German Road Safety Council (DVR) has defined the Vision Zero as its guiding safety strategy for road safety

The Vision Zero is the basic strategy in order to establish a Culture of Prevention

The Vision Zero is not a philosophy, not a target of its own
Vision Zero Fundamental Principles

- Life is not negotiable
- Human beings are fallible
- Tolerable limits are set by physical endurance of human beings
- Human beings have a right to a safe work environment
Example: Vision Zero in road safety: Fields of Action

- **Vehicle**: Speed Limiters and ACC
- **Road**: Self-explanatory Roads
- **Rules**: Speed Limits and Controls
- **Human Beings**: Training and Motivation
Members in the German Accident Forum

• attend the **Zero Accident Forum** of all members and commit themselves to **continuously improve safety and health at work** and to **observe the six member commitments**

• have the mission to be in the **world’s forefront of safety**

• believe that **all accidents can be prevented** and act accordingly

• believe that there is a **moral, social and economic right** to have a **safe working environment and safe working procedures**

• know that **employers and employees together** can control the risks at the workplaces
We have just started with the German ZAV
PEROSH – Partnership for EU Research in OSH

- Austria: **AUVA** – Austrian Social Insurance for Occupational Risks, [www.auva.at](http://www.auva.at)
- Denmark: **NRCWE** - National Research Centre for the Working Environment, [www.nrcwe.dk](http://www.nrcwe.dk)
- France: **INRS** - Institut National de Recherche et de Sécurité, [www.inrs.fr](http://www.inrs.fr)
- Germany:
  - **BAuA** - Federal Institute for Occupational Safety and Health, [www.baua.de](http://www.baua.de)
  - **IFA** - Institute for Occupational Safety and Health of the German Social Accident Insurance, Germany, [www.dguv.de/ifa](http://www.dguv.de/ifa)
- Italy: **INAIL Research** - Italian Workers' Compensation Authority, [www.ispesl.it](http://www.ispesl.it)
- Norway: **STAMI** - National Institute of Occupational Health, [www.stami.no](http://www.stami.no)
- Poland: **CIOP-PIB** - Central Institute for Labour Protection - National Research Institute, [www.ciop.pl](http://www.ciop.pl)
- United Kingdom: **HSL** - Health and Safety Laboratory, [www.hsl.gov.uk](http://www.hsl.gov.uk)
Sustainable workplaces of the future
European Research Challenges for Occupational Safety and Health

Paper proposed by the PEROSH members and presented by:
Dietmar Reinert, PEROSH Vice Chairman, Director IFA
7 European OSH research challenges

1. Sustainable employability to prolong working life
2. Disability prevention and reintegration
3. Psychosocial well-being in a sustainable working organisation
4. Multifactorial genesis of work-related musculoskeletal disorders (MSDs)
5. New technologies as a field of action for OSH
6. Occupational risks related to engineered nanomaterials (ENM)
7. Safety culture to prevent occupational accidents
We are a member of PEROSH

PEROSH members cooperate in 8 joint research projects that have been launched in the beginning of 2009. The topics that have been selected are considered as priorities for research in occupational safety and health.

- Ageing of the workforce
- Survey Development and Cross Culture Methodology
- Determination of Workplace Protection Factors for Respiratory Protective Devices
- Exposure measurements and risk assessment of manufactured materials-nanoparticles
- Hazard identification and engineered nanoparticles
- OSH Evidence – Clearinghouse of Systematic Reviews
- Safety culture and accidents: Promotion of zero accident vision
- Well being and work
Report of Research Priorities of EU-OSHA

1. Demographic change — sustainable work for healthier and longer working lives

2. Globalization and the changing world of work

3. OSH research for safe new technologies

4. New or increasing occupational exposure to chemical and biological agents
Future prospects: SUVA risk radar and PEROSH

risk perception

New risk assessment
Too clean building syndrome
MSD sensitivities
Combined exposure
Health in schools
Human performance enhancement
Safety attitude
Social disparity
Gaming
Elderly care
Skilled worker shortage
Intercultural teams
Teenager society

technology

Cost pressure
Networking
electromobility
Technology hazards
Bioreactors
VR
Open source
HMI
Mobile WP
Genetic engineering
Emergent work
Me inc.
Unique ability
7/24 work
Corporate memory
Intrapreneurship

natural hazards

Increase of natural hazards
Emergency work
Technological hazards
Nanomaterials
Vehicular mobility
Intransparency
Vehicular networking
Ambient intelligence
Electromobility

globalization

Life style

Demographics

Intergenerational care
Social disparity
Teenager society
Intercultural teams
7/24 work
Corporate memory
Intrapreneurship

International Occupational Health and Safety Conference, Istanbul

http://www.perosh.eu/per/per01.nsf/52b2da8b666e069080256aa002ab228/8c8fb4cf8060f882c12576730048f6a6/$FILE/Working_Environment_Challenges_for_the_Future_PEROSH_2009_Proceedings_Final.pdf

Concept – Risk Observatory of DGUV

Trendscouting by Experts leads to Knowledge about early signals/trends feeds into Risk Observatory (RIBEO UV)

- Evaluation on company level
  - Preventive measures: Improvement of the workplace conditions

Inquiry of supervisory persons of UVT (N= ~430) related to trends, risks and preventive measures
  a) Trends (next 5 years):
     Ranking of the trends (industrial sector related and comprehensive)
  b) Health and safety risks:
     Input given by the supervisory persons and literature study
  c) Preventive measures:
     Input given by the supervisory persons and literature study
     Workshop with prevention managers of UVT
8 global trends and subtrends
Trends for new technologies

- Further development and use of information technology, including mobile use
- Use of technology for the generation of renewable energy and the reduction of CO₂ emissions
- Use of biotechnology, management of genetically modified organisms
- Use of bionics (transfer of structures and functions from the natural world for the solution of applied tasks)
- Use of nanotechnology
- Growing complexity of human-machine interfaces
- Collaborative work by human beings and machines
- Centralization and agglomeration of surveillance activity
- Use of technology for the purification of waste gases
- Use of technology for the treatment of waste
- Increasing use of larger and/or heavier goods vehicles (such as the Gigaliner and other extra-long vehicles)
## First Results of Risk Observatory

**RIBEO UV Cluster 2 - Ranking of Subtrends made by our Inspectors**

<table>
<thead>
<tr>
<th>Prio.</th>
<th>BG RCI N = 20</th>
<th>BGHM N = 64</th>
<th>BGETEM N = 37</th>
<th>BGN N = 18</th>
<th>BG Bau N = 56</th>
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<tbody>
<tr>
<td>1</td>
<td>TEC: Complexity of human-machine interface</td>
<td>GLO: Networking, accessibility, IT</td>
<td>GLO: Insecure jobs, precarious contracts</td>
<td>GLO: Work intensity, long working hours</td>
<td>EXP: Noise</td>
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<tr>
<td>2</td>
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<td>4</td>
<td>DEM: Ageing workforce</td>
<td>EXP: Ergonomic strain</td>
<td>GLO: Networking, accessibility, IT</td>
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<td>EXP: Ergonomic strain</td>
</tr>
<tr>
<td>5</td>
<td>DEM: Lack of experts</td>
<td>GLO: Work intensity, long working hours</td>
<td>GLO: Work intensity, long working hours</td>
<td>TEC: Use of IT for mobile workplaces</td>
<td>GLO: Work intensity, long working hours</td>
</tr>
<tr>
<td>6</td>
<td>GLO: Networking, accessibility, IT</td>
<td>DEM: Ageing workforce</td>
<td>GLO: Excessive responsibility</td>
<td>GLO: Mobility, Density of traffic</td>
<td>EXP: Exposure to epoxy resins</td>
</tr>
<tr>
<td>7</td>
<td>GLO: Work intensity, long working hours</td>
<td>GLO: Excessive responsibility</td>
<td>GLO: Mobility, Density of traffic</td>
<td>GLO Networking, accessibility, IT</td>
<td>EXP: Man-made mineral fibres</td>
</tr>
</tbody>
</table>
XX. World Congress on Safety and Health at Work 2014

Global Forum for Prevention 2014
24–27 August 2014 in Frankfurt

www.safety2014germany.com
Our goals for Frankfurt 2014 are to have …

- an attractive congress with a clear focus on the experts coming to Frankfurt,
- a congress introducing new formats of interactive events and activities,
- a congress for gaining new knowledge,
- a congress to meet NEW people,
- a congress of short ways,
- an emotional well-being congress, and
- a congress of sustainability.
Motto and topics of the congress

Sharing a vision for sustainable prevention

1. Prevention culture – prevention strategies – Vision Zero

2. Challenges in occupational health

3. Diversity in the world of work
Programme

• Second Announcement

• Programme

• Registrations

• Media Festival

• Practical Information

Download and registration: www.safety2014germany.com
Thank you for your attention!!!

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