



# Basi

Federal Association for  
Occupational Safety and Health

Federal Association for  
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24 - 27 OCTOBER 2023  
DÜSSELDORF, GERMANY

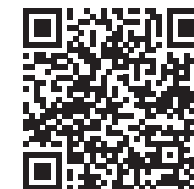


# Basi

Federal Association for  
Occupational Safety and Health

## 38. International A+A Congress

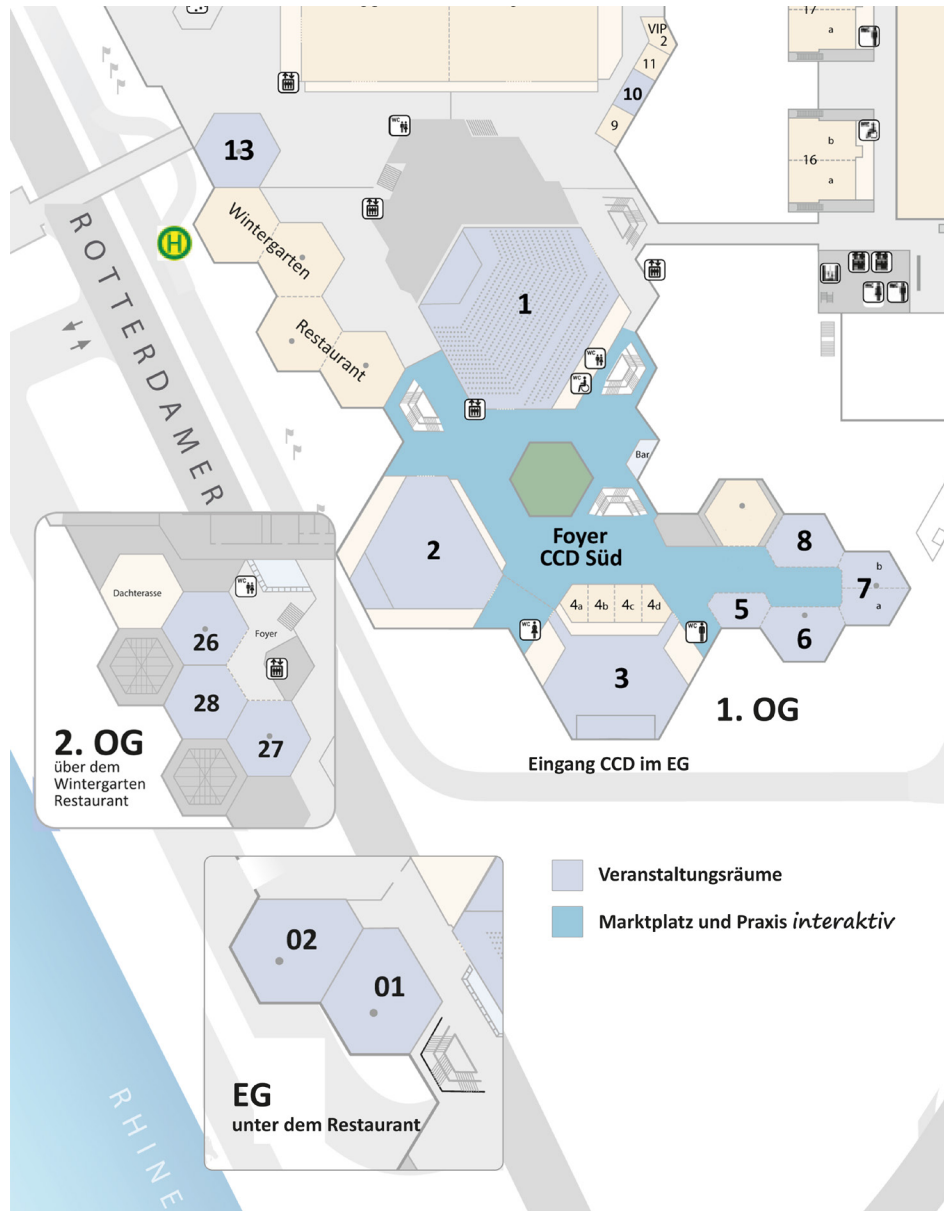
24 - 27 October 2023  
Düsseldorf



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## 38<sup>th</sup> International Congress for Occupational Safety and Health (A+A) Safety – Health – Ergonomics Tuesday, 24 – Friday, 27 October 2023 Congress Center Düsseldorf (CCD)

Excerpt from the programme of  
events available in English

### Come Together

End your day at the Congress with a drink and a bite to eat!

Meet and chat with other participants.

Come along on Tuesday, 24 October to Thursday, 26 October from  
6:00 p.m. to around 7:30 p.m.



**Welcome Address of  
Dr Mohammed Azman Aziz Mohammed**  
President  
International Social Security Association (ISSA)

Dear Colleagues,

Are we letting our guards down? In most countries in the world, occupational safety and health practitioners have seen a real dip in reported occupational accidents and occupational diseases during the period of 2020 until 2021 – the pandemic years. This was a mark of reduced economic activities during the challenging period of our lifetime. During the pandemic, occupational safety and health had risen in priority, touted as an important aspect in managing the pandemic. However, as soon as the economic activities reopened, the number of reported occupational accidents and occupational diseases also remarkably increased towards the pre-pandemic rates. Have we, in the eagerness to restart work activities have let our guards down in ensuring safety and health at work?

Vision Zero embodies the belief that all accidents at the workplace are preventable. The ISSA, despite the pandemic period continued to develop resources and programs to promote Vision Zero among its members. Such belief will be important during the current post-pandemic period, where we still face traditional challenges for safety and health at work, and at the

same time we are at the frontier of new challenges with the advancement of new technology, future jobs and gig economy. Important events such as the A+A congress plays a significant role in keeping us all abreast with advancement of safety and health, and for many years remained an important event for all stake holders and practitioners worldwide.

It is timely that the coming event would mark our continuous effort to mitigate workplace risks. To all who are involved, make full use of the congress and trade fair, and exchange as many ideas as possible to get us all on track to reduce occupational accidents, occupational diseases and improve health and well-being at work. Vision Zero is a journey, and the congress will be a part of that journey. I wish everyone a good conference and sincerely congratulate the organizers, wishing all a successful event and the best of luck!

Kind regards,

Dr Mohammed Azman Aziz Mohammed



**Welcome Word from  
Saskia Osing**  
Basi President,  
Confederation of German Employers' Associations (BDA)

Dear Colleagues,

The number of challenges facing companies in Germany continues to grow. Besides economic aspects arising from recent policy changes, they include challenges for occupational safety and health. Standards in Germany have been exceptionally high for many years. Not least for that reason, the country will be able to cope with the consequences of demographic change, and the shift to a low-carbon economy. For employers, sustainable and purposeful prevention activity is an essential factor in a rapidly changing working world.

Over recent years, it has become evident to what extent the world of work can be digitalized, and not just in knowledge-based services. New digital tools can contribute to further improvements to safety and health at work, and also to human-centric work design. In the future, this will also include the use of artificial intelligence. These opportunities must be exploited and combined with innovative, sustainable concepts. This is particularly relevant to mobile work, but also to stationary workplaces.

Heavy physical workloads at the workplace are on the decline, and the number of workplace accidents in the industrial sector has been decreasing for decades. For example, the accident rate fell by half between

1991 and 2021. The goal is to reduce occupational accidents further, and sustainably. This also applies to the other health hazards, such as mental stress, biological substances, hazardous substances and UV radiation. Employers support activities for achieving this goal by conducting risk assessments for all workplaces. Instead of imposing rigid rules, this instrument encourages companies to take responsibility themselves, and ensures that protective measures are suitable for the workplaces and activities concerned. The company's occupational safety and health professionals and company physicians also play an important role in implementation of the measures.

The A+A Congress 2023 will address all conventional and emerging aspects of safe and healthy work under the motto: „Sustainability and the Digital Transformation“ in almost 50 sessions and network meetings in Düsseldorf. Meet with numerous other experts, take part in the discussions, and play a part in shaping a piece of the future of occupational safety and health, not least within your own company. I warmly welcome you to join us.

Kind Regards,

Saskia Osing



**Welcome Word from  
Dr. Sebastian Schneider**  
Basi President,  
German Confederation of Trade Unions (DGB)

Dear Colleagues,

Safe and healthy work is an inalienable human right. However, the reality still varies widely between activities and from one industry to the next. The goal must be to ensure safe and healthy work for all workers, in all areas of work.

The world is changing rapidly, and the world of work with it. Climate change and the emergence of new industries as a consequence of the shift to a low-carbon economy, and the digital transformation in all its forms, present us with major challenges. What is at stake is nothing less than the human-centric design of work in the future, because the principle remains that work must be adapted to people – and not vice versa. The digital transformation of work is accelerating and has reached a new level. Working from home, and more generally, mobile work at the most diverse of locations, are now widespread, have met with broad acceptance and are often highly appreciated. At the same time, a risk of work intensification and mental stress is very real in many areas. Problems arise in particular where the proven instruments and principles of occupational safety and health are not rigorously applied, or where new arrangements are not yet in place.

In addition to the most recent developments, we must continue to monitor the stresses, exposures and challenges in the industrial sector, such as in logistics and production, and in the care sector. Activities involving hazardous substances, heavy lifting and carrying, and also the organization of working hours: the range of topics is huge. Only through sustainable occupational safety and health, and the comprehensive involvement of employees and the parties representing their interests, can we prevent an erosion of the boundary between work and private life, excessive workloads, and working conditions posing a risk to health.

At the A+A Congress 2023, all current topics will be addressed in almost 50 sessions, and will be discussed in a solution-oriented approach, in some cases with international participation. This opportunity for dialogue and discussion with experts on safe and healthy work and at the same time with colleagues from the companies is the only one of its kind worldwide. I look forward to lively and interesting discussions at the congress in Düsseldorf.

Kind regards,

Sebastian Schneider

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## Tuesday, 24 October 2023

morning

10:00 a.m. – 12:30 p.m.

### Congress opening ceremony 38<sup>th</sup> Internationaler A+A Congress and Trade Fair A+A 2023

Room 2

#### Welcome

Klaus Bornack, Chairman of the Advisory Board  
A+A Messe Düsseldorf  
Saskia Osing, Basi President  
Basi  
Dr Christian Felten, Managing Director  
Basi

#### Opening remarks

Lilian Tschan, State secretary  
German Federal Ministry of Labour and Social Affairs (BMAS)

#### Opening remarks

Dr Mohammed Azman, President  
International Social Security Association (ISSA)

### Sustainability in occupational safety and health - how can it be achieved?

#### Panel discussion

Dr Christian Felten (Moderation)  
Stefan Brück, UVEX Safety Group  
Beate Hinze, SAP  
Dr. Stefan Hussy, German Social Accident Insurance (DGUV)  
Isabel Rothe, Federal Institute for Occupational Safety and Health (BAuA)

#### Keynote

#### „Resilience - a buzzword or an universal answer“

Prof Dr Thomas Rigotti  
Leibniz-Institut für Resilience Research (LIR)

#### Award ceremony „On the road - but safe!“

German Road Safety Council (DVR) /  
Association for Safety, Health and Environmental Protection at Work (VDSI)

## Tuesday, 24 October 2023

afternoon

02:00 p.m. – 05:45 p.m.

Together for Life –  
International VISION ZERO Days I  
International Social Security Association (ISSA)



Room 28

15

#### Keynote:

Moonshots to meet Vision Zero Culture and  
Safety Regulations - "Interactions between  
Vision Zero, CSR-D und ESG"

Jan Hägewald,  
Dräger Safety AG Co. KGaA

Room 28

The VISION ZERO Story –  
Together for a Safe &  
Healthy Life in a World of Crises

Helmuth Ehnes,  
International Section of the ISSA  
on Prevention of Occupational Risks in the Mining Industry

Room 28

#### Event overview

02:45 p.m. – 05:45 p.m.

Safety-II – learn from good marriages –  
not just from divorces!

#### Workshop

Austrian Workers' Compensation Board (AUVA)

Room 7

14

## Wednesday, 25 October 2023

morning

09:15 a.m. – 01:15 p.m.

### Keynote:

VISION ZERO versus Standardization:  
A Position Statement

Room 28 12

Angelika Janowitz,

Commission for Occupational Health and  
Safety and Standardization (KAN)

09:15 a.m. – 09:35 a.m.

### Event overview

10:15 a.m. – 01:15 p.m.

Together for Life -  
International VISION ZERO Day II

International Social Security Association (ISSA)

09:45 a.m. - 01:30 p.m.



Room 28 15

Safe and human-centric artificial  
intelligence in the world of work

Federal Institute for Occupational Safety and Health (BAuA)

Room 2 16

Higher education as the key to training  
the next generation of OSH professionals -  
a dialogue between continents

European network education and training in  
occupational safety and health (ENETOSH)

Room 7 17

## Wednesday, 25 October 2023

afternoon

02:00 p.m. – 05:00 p.m.

### Keynote:

A global pledge for safety and health at work:  
Where we want to go

Room 28 13

Joaquim Pintado Nunes,

International Labour Organisation (ILO)

02:00 p.m. - 02:30 p.m.

### Event overview

02:45 p.m. – 05:45 p.m.

VISION ZERO Day I (ORP):  
Digitalisation for Sustainable Prevention -  
Digital Solutions to promote Safety,  
Health and Well-being

ORP Foundation

**ORP**

Room 28 18

Promoting sustainable networking  
of OSH networks

World Café

European Agency for Safety and Health at Work (EU-OSHA)

Room 7 19

only in English

## Thursday, 26 October 2023

morning  
09:15 a.m. – 01:15 p.m.

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### Event overview

10:15 a.m. – 01:15 p.m.

VISION ZERO Day II (ORP):  
Mental Health and Well-being at Work -  
Strategic Concepts and Management Practice  
ORP Foundation

**ORP**  
Room 28 20

ISSA Section education and training  
for prevention and ENETOSH:  
Joint network meeting

Room 5 22  
[only in English](#)

## Thursday, 26 October 2023

afternoon  
02:00 p.m. – 05:00 p.m.

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### Event overview

02:45 p.m. – 05:45 p.m.

Psychosocial care in companies following  
emergency situations  
SRH University of Applied Health Science Gera

Room 8 21

VISION ZERO Business Councils Meeting

Room 5 23

## Friday, 27 Oktober 2023

morning  
10:00 a.m. – 01:00 p.m.

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### Event overview

10:00 a.m. – 01:00 p.m.

Past, Present and Future for Sustainable  
OSH Professionals  
European Network of Safety and  
Health Professional Organisations (ENSHPO)

Room 8 24  
[only in English](#)

## KEYNOTE

Wednesday, 25 October, 09:15 – 09:35 a.m.

Room 28

### Keynote:

VISION ZERO versus Standardization: A Position Statement

Angelika Janowitz,

Commission for Occupational Health and Safety and Standardization (KAN)

Vision Zero versus standardisation: a position statement Vision Zero strives for a working world without occupational accidents and diseases. Standardisation can support this, but it also has its limits.

Thesis 1: Overlap between Vision Zero and standardisation

Standards can provide support in the sense of the 7 Golden Rules in order to avert hazards, to organise systems well or to have safe and healthy machines or systems available.

Thesis 2: Good standardisation and its limits

Standards that define testable requirements for safe work equipment are beneficial, also in the context of new technologies such as AI. Negative are, for example, standards based on immature concepts or those that address employers with an unnecessary number of management requirements.

Thesis 3: Synergies promote a safe work environment

Standardisation and Vision Zero can form a powerful team if they reflect the state of the art in a practical way without interfering with the responsibilities of legislators and rule-makers. The active participation of OH&S experts in standardisation work is crucial here. The Commission for Occupational Health and Safety and Standardization (KAN) provides an example of how their work can be supported.

Conclusion

A harmonious "Vision Zero with standardisation" instead of a "Vision Zero versus standardisation" is the goal in order to make the best possible use of synergies to prevent occupational accidents and diseases. To this end, OSH should make use of the advantages of standardisation and demand its limits.

## KEYNOTE

Wednesday, 25 October, 02:00 – 02:30 p.m.

Room 28

### Keynote:

A global pledge for safety and health at work: Where we want to go

Joaquim Pintado Nunes,

International Labour Organisation (ILO)

Since its founding in 1919, one of the core objectives of the International Labour Organization has been to promote safe and healthy working environments globally. In June 2022 the International Labour Conference, which brings together governments, employers and workers organizations from 187 countries recognized that a safe and healthy working environment is a fundamental principle and right at work. What does this mean in practice

and how can it change the lives of workers, increase productivity, contribute to national development, and assist the work done by safety and health professionals?

The speech will provide insight on the status of occupational safety and health globally, steps taken for the realization of the new fundamental right at work and will highlight what is required from all to progressively build a global culture of prevention in a world facing multiple crisis.



Tuesday, 24 October, 02:45 – 05:45 p.m.

Room 7

### **Safety-II – Learn from good marriages – not just from divorces!**

Organizer: Austrian Workers' Compensation Board (AUVA)

„It's easy to count things that go wrong, but does that measure safety?“ (Erik Hollnagel)

Whereas at present, safety is viewed and measured primarily in terms of the undesirable consequences of its absence (such as the accident rate), the focus of Safety-II lies upon observing and describing how everyday work is performed both successfully and safely.

Safety-II assumes that the existing variability in work as done (WAD) provides the adaptations required for addressing changing conditions.

#### **Objective**

To present the Safety-II strategy and examples of its application, specifically involving the functional resonance analysis method (FRAM), to interested visitors to the A+A from companies, public authorities, and research and educational institutions. To promote the forging of contacts in the subject area in German-speaking countries.

Following a brief introduction to the subject of Safety-II, the workshop participants will apply the FRAM analysis method with reference to an everyday example. Two rounds of discussion will facilitate active dialogue between the participants. The papers are intended to be practice-oriented.



Tuesday, 24 October, 02:00 – 05:45 p.m.

Wednesday, 25 October 09:15 - 01:30 p.m.

Room 28

### **Together for Life – International Vision Zero Day I and II**

Organizer: International Social Security Association (ISSA)

Together for Life – this is the motto for the International VISION ZERO Days 2023.

VISION ZERO is a global pro-life success story that brings people together and points the way to a new culture of prevention at the workplace and beyond.

Within the International VISION ZERO Days 2023 participants can

- get an overview of the status of the Global VISION ZERO Strategy which is aiming at creating a new mindset of managers and workers at the workplaces towards a prevention culture,

- look beyond the traditional safety and health horizon,
- achieve information on innovation and best practise from industry,
- become familiar with the latest VISION ZERO initiatives, projects, and tools, and last but not least,
- listen to inspiring reports about chances and challenges from the VISION ZERO implementation processes in regions, sectors and 6 different countries.

The lectures will be presented within 3 Keynote presentations and international speakers in 4 sessions.

Wednesday 25 October, 10:15 a.m. - 01:15 p.m.

Room 2

### Safe and human-centric artificial intelligence in the world of work

Organizer: Federal Institute for Occupational Safety and Health (BAuA)

A variety of applications for AI in companies are emerging, and a variety of parameters and effects must be taken into account.

AI systems will substantially change the world of work, and the range potential applications is still unclear at this point. It is evident, however, that the processes and activities that can be supported and even assumed by AI are extremely diverse.

From an occupational safety and health perspective and also for functional implementation in companies,

it is crucially important that the systems be designed and used in a safe and human-centric manner.

The papers presented at this session will provide insights into various aspects of AI applications. They range from fundamental, conceptual issues related to regulation, standardization and risk assessment, to aspects of good implementation at company level and examples of applications for occupational safety and health and good work design.

Wednesday 25 October, 10:15 a.m. – 01:15 p.m.

Room 7

### Higher education as the key to training the next generation of OSH professionals – a dialogue between continents

Organizer: European Network Education and Training in Occupational Safety and Health (ENETOSH)

Higher education is the key to developing economic, social and environmental sustainability in OSH.

With their study programmes in disciplines relevant to occupational safety and health, such as safety engineering, industrial hygiene, occupational medicine and occupational health care, universities make a decisive contribution to achieving the UN Sustainable Development Goals. In addition, universities have a role model function for good work for future generations of employees.

The contributions of this session highlight the status and challenges of disciplines relevant to occupational safety and health in different regions of the European and African continents. Examples of OSH-re-

lated courses of study are presented that enable students to implement UN Sustainable Development Goals 3 and 8 in particular. In this context, it will also be discussed how the university itself can become more sustainable.

The aim of the event is to promote exchange between the occupational safety and health professions of the different continents and to highlight opportunities for cross-continental cooperation in occupational safety and health.

The event is organised in cooperation with the European Network Education and Training in Occupational Safety and Health (ENETOSH) and the Pan-African OSH Network OSHAfrica.

Wednesday 25 October, 02:45 – 05:45 p.m.

Room 28

## Vision Zero Day I (ORP) – Sustainable Prevention through Digital Solutions to promote Safety, Health and Well-being

Organizer: ORP International Foundation

Not surprisingly, the risks and opportunities of digitalisation for prevention are currently amongst the dominating topics at major OSH-events. Friend or foe of prevention? - Part 1 of the ORP Vision Zero Day will be devoted to answering this exciting question.

The European Agency for Safety and Health at Work will share insights into its research on the impact of digitalisation on OSH and focus on digital monitoring, while representatives of the Global Vision Zero Business Council and the Japan-based Institute of Global Safety Promotion will highlight cutting-edge OSH-technologies used by some of the leading international enterprises.

The objective of Vision Zero is to promote a safe and healthy business culture. At this session, we will learn about predictive digital tools that contribute to foster safe behaviours and thus to avoid harm at work.

While digital solutions traditionally have focused on managing safety risks, the session will also demonstrate practical solutions aimed at improving the health and well-being of employees.

Friend or foe? – If you interested in learning if the future of prevention is digital, join the session and decide for yourself.



Wednesday, 25. Oktober, 02:45 – 05:45 p.m.

Room 7

## Promoting sustainable networking of OSH networks

Organizer: European Agency for Safety and Health at Work (EU-OSHA)

The idea of this workshop is to promote networking between established OSH networks from ENETOSH, ENSHPO, ISHCCO, OSH-Africa and EU-OSHA on sustainability in occupational safety and health. There is already a long-standing collaboration between the networks in various projects and activities, e.g., as campaign partners of the EU-OSHA Healthy Workplaces Campaign and at the A+A Congress. This aligns well with the Vision Zero approach of the 'EU strategic framework on health and safety at work 2021-2027 - Occupational safety and health in a changing world of

work', which includes the dynamics of green, digital and demographic change in Europe.

The format will be organised in an interactive way. First, a 30 min round table discussion to present the different networks. Second, a world café session where each of the networks presents its approach to sustainability at one discussion table and the participants can walk around and join the discussions. Third, a final summary will close the session.



Thursday, 26 Oktober, 10:15 a.m. – 01:20 p.m.

Room 28

**Vision Zero Day II (ORP) – Mental Health and Well-being at Work – Strategic Concepts and Management Practices**

Organizer: ORP International Foundation

Mental Health and Well-being at Work – Strategic Concepts and Management Practices According to WHO/ILO an estimated 12 billion workdays are lost annually due to depression and anxiety costing the global economy nearly US\$ 1 trillion. Mental health can affect both businesses and their employees due to its influence on wellbeing, job performance and productivity. While a negative working environment may lead to physical and mental health problems, absenteeism and lost productivity, workplaces that promote mental health and support people with mental disorders are more likely to reduce absenteeism, increase productivity and benefit from associated economic gains.

There are in other words strong human and economic reasons for businesses to focus more on mental health programmes and to create a culture of safety, health and well-being.

The COVID-19 pandemic has exacerbated already existing mental health issues that have been amplified further being by the transition

back to work. However, it also has helped to raise awareness about the importance of mental health and wellbeing at the workplace and provides strong incentives to redesign work organisation, to increase flexibility and to offer support through mental health and wellbeing programmes.

Part 2 of the ORP Vision Zero Day addresses mental health and wellbeing at work from two perspectives: Firstly, experts from leading international organisations will present brand-new strategic concepts to address mental health at work, and secondly experts from renowned corporations will share practical solutions to manage mental health and wellbeing at company level.

Don't miss this unique opportunity to learn how you can make a positive contribution to mental health and well-being at your workplace.

Thursday, 26 Oktober, 02:45 – 05:45 p.m.

Room 8

**Psychosocial care in companies following emergency situations**

Organizer: SRH University of Applied Health Science Gera

Numerous factors influence mental health in the workplace. In the aftermath of an emergency (sudden extreme situation) such as a serious or fatal occupational or commuting accident, medical emergency, or verbal or physical attack, the mental stability of affected individuals may be at risk. The DGUV recommends that emergency psychosocial care be implemented in companies where indicated. What form, though, should this care take? What aspects must be considered by companies? And who can support companies in this process?

The session will present the current progress of research and the interim results of the research project: Emergency psychosocial care in companies – a status review of implementation in Germany. The project was launched on 1 January 2022 and is being funded by the German Social Accident Insurance.

Those attending the various talks will receive in-depth information on emergency psychosocial care in companies from a range of perspectives.

SECTORS

Thursday, 26 Oktober, 09:15 – 11:00 a.m. Room 5

ISSA Section Education and Training for Prevention and ENETOSH: Joint Network Meeting

Organizer: ISSA and ENETOSH

On the occasion of this year's A+A International Congress, the International Section on Education and Training for Prevention of the International Social Security Association (ISSA) and the European Network Education and Training in Occupational Safety and Health (ENETOSH) are organising a joint network meeting. The meeting aims to update, start conversations and discover synergies and opportunities for collaboration. Members of the two networks attending A+A as well as A+A visitors interested in occupational safety and health education and training issues are heartily invited to join the meeting.

SECTORS

Thursday, 26 Oktober, 02:45 – 05:45 p.m. Room 5

VISION ZERO Business Councils Meeting

The Global and the Danish Vision Zero Business Councils\* actively contribute to the upcoming International A+A Congress 2023 by co-organizing the ORP Vision Zero Day on 26 and 27 October. Immediately after the Vision Zero event a joint Council meeting will take place, providing members with a unique opportunity to exchange about new and emerging challenges for occupational safety, health and well-being, and to discuss plans for future activities.

\*Founded in 2018 the Global Vision Zero Business Council brings together safety, health, and environment managers from 15 renowned international corporations with the aim to share successful management models and best practices to achieve Vision Zero. It is hosted by the International ORP Foundation, based in Barcelona, Spain. The Danish Vision Zero Council was established two years later 2020 on the initiative of Human House, a leading OSH-consultancy and Vision Zero Partner Organisation, and brings together senior safety and health managers from 20 major companies in Denmark.

**Friday, 27 October, 10:00 a.m. – 01:00 p.m.**

**Room 8**

## **PAST, PRESENT AND FUTURE FOR SUSTAINABLE OSH PROFESSIONALS**

Organizer: European Network of Safety and Health Professional Organisations (ENSHPO)

The concept of sustainability is growing rapidly in today's world, with many governments incorporating it into their economic development strategies. According to the World Health Organization (WHO), sustainable development is defined as a strategy to „meet the needs of the present world population without causing adverse effect on health and on the environment, and without depleting or endangering the global resource base, hence without compromising the ability of future generations to meet their needs“. Sustainable development is guided by several principles, many of which are clearly applicable to occupational health and safety.

Those certain principles include the need to pay attention to people's health and quality of life, to the prevention of known risks, and to

the use of precaution when there is uncertainty about the risks. As a result, occupational health and safety (OHS) and injury and disease prevention may be regarded as issues of concern in terms of sustainability.

Faced with this new perspective, we professionals are facing new challenges to face, and in which we can be part of the leadership that leads companies towards sustainable business.

Under a time line vision, several experts will review how the concept of sustainability has evolved over the last few years and how Safety, Health and Environment professionals have been incorporating it into their work overtime, often without being aware of it.

Our panelists will answer questions related to:

1. What does the incorporation of terms such as safety, health and the environment mean for companies in their integrated management?
2. What principles should be adopted so that safety, health, and the environment are included within the parameters of corporate sustainability?
3. How is the future envisaged?
4. How is the transition from OSH to Sustainability Manager/responsible?

Past, present and future will be brought together through the experience of 4 speakers, where we will be able to observe the evolution, and we will be offered practical solutions and tools so that the incorporation of sustainability in

companies, through safety, health and environment departments with a relevant leadership, putting the focus on the basis of any organization, people.

While we talk about sustainability, we can not ignore the new digital era in which we find ourselves. Digitalisation as a global concept, from automation to artificial intelligence, permeates the entire world of work these days, and represents a 180-degree turnaround from what has been done so far.

That is why health and safety professionals play an essential and necessary role in the face of these new challenges and can therefore also help to make work environments safer and more sustainable.

Therefore, in the second part of our session, our speakers will explain how digitalisation can make companies more sustainable.



**Tuesday, 24 October**

**9:40 – 10:20 a.m.**

**Digital demonstration of experiments**

**10:20 – 12:00 a.m.**

**Hazardous substances:**

**monitoring, measures for protection against wood dust and welding fumes, ZED central exposure database**

- Smart hazardous substance monitoring: Digital protection of workplaces
- When light dawns on the invisible danger – an innovative solution to the particulate matter problem
- Wood dust – Hazards and protective measures (TRGS 553)
- Lead exposure – risk assessment and instruction regarding maternity protection
- The Central Exposure Database (ZED) – Practical help for exposure to CMR substances

**12:00 – 01:20 p.m.**

**Industrial and operational safety**

- Defeating protective devices – focus on managers
- Inspection of machinery and work equipment and supervision of workers – Legal principles for manager responsibilities
- Security incidents on industrial control systems with live demo
- Security measures every company can implement immediately

**01:20 – 02:00 p.m.**

**Live demonstration of experiments**

**02:00 – 03:00 p.m.**

**Product ergonomics**

- Blue Collar New Work – how the industrial workplace is becoming more attractive
- Innovation for the fingers: The Artus exoskeleton as a prevention tool
- Ergonomic safety knives

**03:00 – 03:20 p.m.**

**Health and well-being as prevention - Practical tips and exercises**

**03:20 – 05:00 p.m.**

**Current developments in personal protective equipment (PPE)**

- Working with PPE against falls from a height – the need of a rescue concept
- Knee protection – new developments due to changes in standardisation
- Selection of protective clothing – risk assessment, multi-norm, sustainability
- New and revised DGUV documents relating to hearing protection – selection, use and electronic supplementary functions
- What is new in the field of safety footwear

**Wednesday, 25 October**

**9:40 – 10:20 a.m.**

**Live demonstration of experiments**

**10:20 – 12:00 a.m.**

**New aspects in skin protection**

- UV exposure at the workplace – criteria and protective measures
- Prevention of skin cancer – making sun protection visible
- Practical part: demonstration of UV camera, UV beads, sunglasses test
- Skin protection in case of exposure to irritating substances when working outdoors
- Certification of sun protection for the occupational use

**12:00 – 01:20 p.m.**

**Digital occupational safety**

- DIN ISO 45001 explained in 15 minutes!
- Future understandable instruction...  
A target group view – Gen Z and Millennials
- Integrating Virtual Reality into everyday operations: How does VR “hit the streets”?
- Meet the future: Healthy work through AI-Coaching

**01:20 – 02:00 p.m.**

**Digital demonstration of experiments**

**02:00 – 03:20 p.m.**

**Hazardous substances: the new Hazardous Substances Ordinance, news from the AGS Committee for Hazardous Substances, Hazardous Substances Protection Award**

- Asbestos – New regulations in the new Hazardous Substances Ordinance
- News from the Committee on Hazardous Substances (AGS)
- REACH and occupational safety and health – does it fit together? (New Recommendation Hazardous Substances 409)
- Hazardous Substances Protection Award 2024

**03:20 – 05:00 p.m.**

**Health in the hybrid office world**

- Future Workplace – The equipment of the future for knowledge work
- How ergonomic workplaces increase the well-being and productivity of employees – a case study
- Lack of movement at work: what you should know – what you can do
- Healthy and attractive offices: Current recommendations on air humidity

**Thursday, 26 October**

**9:40 – 10:20 a.m.**

**Digital demonstration of experiments**

**10:20 – 12:00 Uhr**

**Hazardous substances: tools for risk assessment, Part 1**

- Hazards and protective measures during welding
- Databases GESTIS, GISCHEM, WINGIS – what can I find where?
- TRGS 401 in the EMKG
- Skin cleansing of hazardous substances – outdated standards and novel solutions
- Identification and assessment of the inhalation exposure risks – new version of TRGS 402

**12:00 – 01:20 p.m.**

**Ergonomics methods**

- Digitally supported trend analysis for the assessment of work
- Ergonomics – Survival of the Fittest: How we survive the working day healthily
- Ergonomics 4.0: Computed MyoGraphy (CMG) as a new method for the workplace analysis of the future
- Virtual Reality (VR) – experience ergonomics in office in a completely new and innovative way

**01:20 – 02:00 p.m.**

**Live demonstration of experiments**

**02:00 – 03:20 p.m.**

**Hazardous substances: tools for risk assessment, Part 2**

- The new EMKG-App
- The hazardous substance Mikado: One new hazardous substance, many consequences in the company
- The GDA Hazardous Substances Check – Guidance for activities involving carcinogenic hazardous substances
- SUBSPORTplus – A digital tool for the substitution of hazardous substances

**03:20 – 05:00 p.m.**

**Safety, health and well-being at work**

- So healthy is craft
- First aid at the workplace (reanimation in case of sudden cardiovascular arrest)
- How much emotionality can an effective instruction on occupational safety and health tolerate?
- Mental risk assessment in BGM practice
- Energy refuelling stations in everyday work - Practical tips and exercises

**Friday, 27 October**

**9:40 – 10:20 p.m.**

**Live demonstration of experiments**

**10:20 – 10:40 a.m.**

**Health and well-being as prevention -  
Practical tips and exercises**

**10:40 – 12:00 a.m.**

**Sustainability and future prospects**

- Digital Product Passport:  
The New Toolkit For The Coming Compliance Challenges
- EPD – The first clothing company in the world that  
made an environmental product declaration and how we did it
- How national voluntary consensus standards impact occupational  
safety and health [OSH], and the sale and implementation of  
PPE and OSH Products in the US
- Lithium Ion Batteries: Handling, legal issues and state of the art  
in storage

**12:00 – 01:20 p.m.**

**Shaping the Future with Exoskeletons –  
New Technology Impulses**

- Introduction Shaping the Future with Exoskeletons –  
New Technology Impulses
- Impulses from biointelligence for exoskeletons
- Development of a bio-inspired exoskeleton and  
its quantitative evaluation
- Wearable Impulse: Learning from Life in Space –  
Novel exoskeleton- based countermeasure system ATHLETIC
- Synergy and discussion

**01:20 – 02:00 p.m.**

**Digital demonstration of experiments**

**02:00 – 03:40 p.m.**

**Hazardous substances: EMKG scheme, GisChem database,  
hazards to skin and plausibility check**

- Assessing dermal risk – new version of TRGS 401
- Risk Assessment with the EMKG
- Databases GESTIS, GISCHEM, WINGIS – what can I find where?
- Plausibility check of safety data sheets
- Handling hydrogen more safely – Hydrogen visualized  
by indicator supraparticles

**Wednesday, 25 October**

**Hall 1 Room 14 /15**

**Morning**  
**09:30 a.m. – 01:00 p.m.**

Keynote  
*Prof. Dr. Nicola Vitiello,  
Scuola Superiore Sant'Anna (Italy)*

Exoskeletons & Exosuits  
Technologies  
Part I

Assessment & Human Factors  
Part I

**Afternoon**  
**02:30 p.m. – 06:00 p.m.**

Poster Session  
Modeling & Simulation

Exoskeletons & Exosuits Exhibitors  
Part I

**Thursday, 26 October**

**Hall 1 Room 14 /15**

**Morning**  
**09:30 a.m. – 01:00 p.m.**

Keynote  
*Dr. Thomas Alexander, Federal  
Institute for Occupational Safety  
and Health (Germany)*

End-User-Forum

**Afternoon**  
**02:30 p.m. – 06:00 p.m.**

Exoskeletons & Exosuits  
Technologies  
Part II

Use-Cases

Assessment & Human Factors  
Part II

Exoskeletons & Exosuits Exhibitors  
Part II

## POSTER-SESSION

**24 – 27 October**  
**Opening 24 October at 06:00 p.m.**

**Foyer 1<sup>st</sup> Floor CCD**

## Poster-Session A+A Congress and WearRAcon

Organizer: Federal Association for Occupational Safety and Health (Basi) and  
Fraunhofer Institute for Manufacturing Engineering and Automation IPA

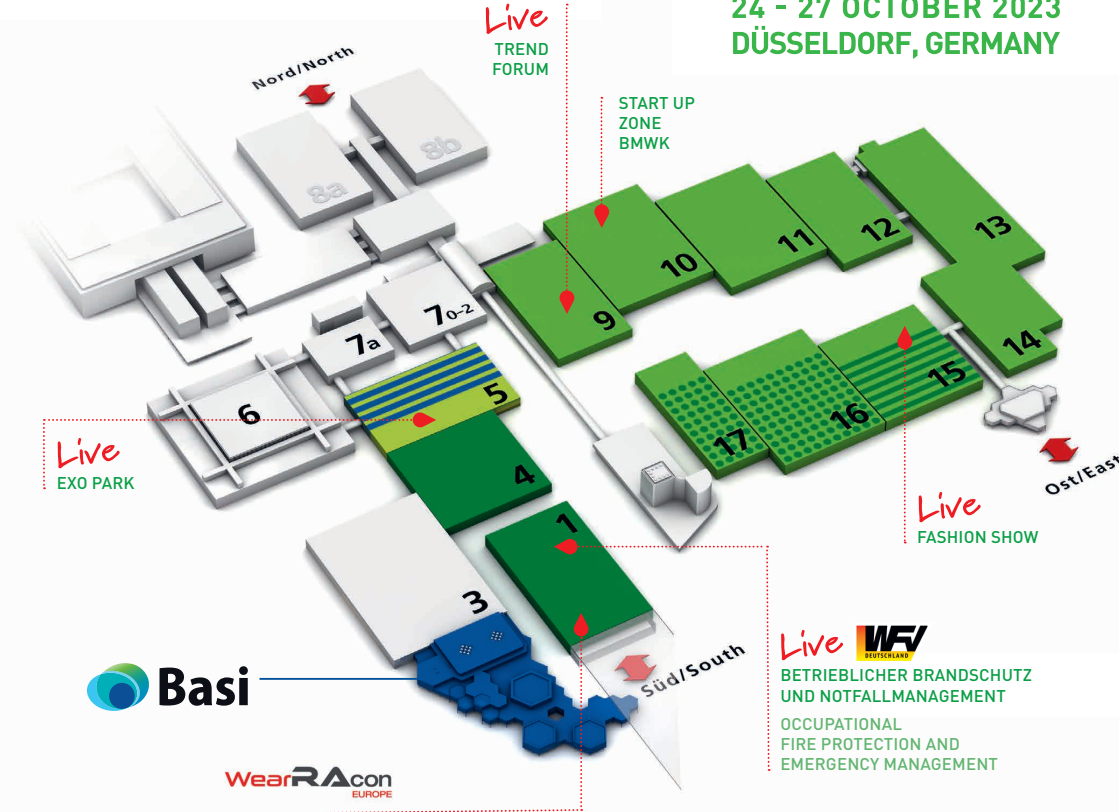
Research and project results  
and case studies on all topics  
of the A+A Congress and Wear-  
RAcon will be presented on 60  
posters in the foyer of the CCD.  
There will be an opportunity for  
discussion with the authors.







24 - 27 OCTOBER 2023  
DÜSSELDORF, GERMANY




#### Halle/Hall 5


 **Gesundheit bei der Arbeit**  
Health at Work


 **Treffpunkt Sicherheit + Gesundheit**  
Meeting Point Safety + Health


**CCD Süd, CCD Stadthalle/  
CCD South, CCD Stadthalle**


 **A+A Kongress/  
A+A Congress**

#### Hallen/Halls 9-17

 **Persönlicher Schutz**  
Safety at Work

**Halle/Hall 15**  
 **Corporate Wear**  
Corporate Wear

**Hallen/Halls 16 + 17**  
 **Gewebe, Komponenten und Zubehör**  
Fabrics, Components and Accessories

**Hallen/Halls 1 + 4**  
 **Betriebliche Sicherheit**  
Security at Work