

VISION ZERO SUMMIT 2022

11 to 13 May 2022

OFFICIAL BOOKLET

Redefining safety, health and
well-being for the new normal



Archived video available at
<https://japan.visionzerosummits.com/>



Digital Event of the Year



Global
Coalition
for Safety
& Health
at Work



**VISION ZERO
SUMMIT JAPAN 2022**

VISION ZERO SUMMIT JAPAN 2022

Japan is proud to host the second Vision Zero Summit and welcome the global Occupational Safety and Health Community for an exciting online exchange about the future of prevention. In partnership with the Global Coalition for Safety and Health at Work, a true world-class event was offered during 11-13 May 2023. Leading international OSH-experts shared the latest prevention knowledge and strategies, while senior OSH-managers from renowned corporations gave unique insights into the practical application of the Vision Zero mind-set.

Vision Zero Summit Japan 2022 was a unique opportunity to co-create a New – and better – Normal, where the safety, health and well-being of people comes first.

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12 May 2022

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MAYUMI KANEYUKI
Master of Ceremony

VISION ZERO SONG by Royalty Band of Zambia



Courtesy of Worker's Compensation Fund Control Board



OPENING SESSION



Professor Dr. Masao Mukaidono
INSTITUTE OF GLOBAL SAFETY PROMOTION (IGSAP) CHAIRMAN
VZSJ JAPAN ORGANIZING COMMITTEE CHAIRMAN



Mr. Shigeyuki Goto
MINISTRY OF HEALTH, LABOUR AND WELFARE, JAPAN
MINISTER



Dr. Tedros Adhanom Ghebreyesus
WORLD HEALTH ORGANIZATION (WHO)
DIRECTOR GENERAL



Professor Dr. Joachim Breuer
INTERNATIONAL SOCIAL SECURITY ASSOCIATION (ISSA)
PRESIDENT



Mr. Stefan Olsson
EUROPEAN COMMISSION (EC)
WORKING CONDITION AND SOCIAL DIALOGUE DIRECTOR



Ms. Vanessa Harwood-Whitcher
INSTITUTION OF OCCUPATIONAL SAFETY AND HEALTH (IOSH)
CHIEF EXECUTIVE



Mr. Kazuhiko Ishimura
NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY (AIST)
PRESIDENT, CEO



Mr. Manfred Schoch
BMW
CHAIRMAN OF BMW GROUP WORKS COUNCIL



Mr. Kazuyuki Inoue
SHIMIZU CORPORATION
PRESIDENT AND DIRECTOR



Dr. Tommi Alanko
FINNISH INSTITUTE OF OCCUPATIONAL HEALTH (FIOH)
DIRECTOR OF OCCUPATIONAL SAFETY UNIT





CHAIR



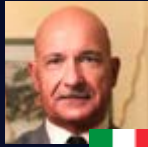
HANS-HORST KONKOLEWSKY
International ORP
Foundation (FIORP),
President



Health and sustainability have become top priorities for businesses across the globe, as their overwhelming interest in joining the ISSA's Vision Zero campaign clearly demonstrates. Safety, health and wellbeing are increasingly becoming an integrated part of the organizational culture as businesses recognize that their success depends more than ever on people. During the session senior OSH managers will share valuable insights and practical experiences from the Vision Zero journey of their companies. Special focus will be given the critical role of the leadership and the empowerment and active involvement of all employees in developing a prevention culture based on Vision Zero.

The session will also explore how the Vision Zero mind-set can be promoted and developed in all business activities and at all locations of a company, and how it can be cascaded to all business partners, including supplier (sub)contractors and where relevant customers. Finally, as the world of work is changing dramatically due to the emerging digital economy, the related risks and opportunities for safety, health and wellbeing at work and thus for implementing Vision Zero will be discussed, and practical solutions be presented.

SUB CHAIRS



FRANCO DUTTO
TSUBAKI NAKASHIMA CO., LTD.
Senior Vice President,
Chief HR and Sustainability
Officer



JUAN MANUEL CRUZ
Acciona, S.A.
Industrial Relations,
H&S and Sustainability
Director



SPEAKERS



Click speakers for their full speeches

SESSION 1: A CORPORATE MIND-SET OF PEOPLE CENTRIC HEALTH, SAFETY & WELLBEING



MALCOLM STAVES
L'Oréal S.A.
Global Vice President Health & Safety



ALBERTO SCHIAVON
Pirelli & C. S.p.A.
Group Safety Manager



IVAN PUENTES ARANGO
Grupo Energía Bogotá (GEB)
Group H&S Manager



SESSION 2: VISION ZERO - BOTH SAFETY, HEALTH AND WELLBEING



MANFRED SCHOCH
BMW
Chairman of BMW Group Works Council



FRANCO DUTTO
TSUBAKI NAKASHIMA CO., LTD.
Senior Vice President, Chief HR and Sustainability
Officer



NORHAZLINA MYDIN
PETRONAS
Head, HSSE Change & Communications Group
HSSE



SESSION 3: BUILDING AN INCLUSIVE PREVENTION CULTURE



JOSEP MARIA VERDEJO
Agbar
Director



THOMAS TARP
LEGO
Senior Director, Global EHS



SESSION 4: DIGITALIZATION FOR PREVENTION



LARS HOFFMANN
Siemens AG
Head of EHS Expert Center



JUAN MANUEL CRUZ
Acciona, S.A.
Industrial Relations, H&S and Sustainability Director



TAKASHI KAWATA
SHIMIZU CORPORATION
Advisor





CHAIR



OCKERT DUPPER

International Labour Organization (ILO)
VZF Global Programme Manager



Each morning, somewhere in the world, 1,000 people leave home for work and don't come back, and another 6500 people die daily from diseases contracted as a result of an exposure to risk factors arising from work activity. These are the people who make our clothes. Grow the beans for our coffee. Construct the buildings in which we live and work. They need safe, healthy workplaces, and deserve our shared commitment to improving health and safety up and down the global supply chain. The G-7-mandated and ILO-administered Vision Zero Fund (VZF) mobilize governments, employers, workers and other stakeholders to make real, measurable improvements in worker health and safety where they are most needed. Working at all levels of the supply chain, from factories and fields to governments and global enterprises, the VZF strategically target sectors and regions where it believes it can make a positive difference.

This session will be divided into two parts. Part I will discuss what global buyers can do to improve safety and health along global supply chains, especially when operating in countries with weak or deficient national safety and health and employment injury protection schemes. Part II is dedicated to a discussion of Vision Zero Fund's efforts to make global supply chains safer. It will highlight good practices and achievements, but also identify endemic challenges that will require the collective action of all stakeholders, including multinational enterprises and OSH practitioners, to address.

SPEAKERS



Click speakers for their full speeches

TOPIC 1: MAKING GLOBAL SUPPLY CHAINS SAFER AND HEALTHIER -THE ROLE OF BUSINESS



OCKERT DUPPER

International Labour Organization (ILO)
VZF Global Programme Manager



MARIANA INFANTE

International Labour Organization (ILO)
VZF Myanmar Senior Technical Officer



ANNE MARIE LA ROSA

International Labour Organization (ILO)
Senior Policy, Legal and Labour Rights Specialist

TOPIC 2: MAKING SUPPLY CHAINS SAFER THROUGH COLLECTIVE ACTION - RESULTS FROM THE WORK OF VISION ZERO FUND



OCKERT DUPPER

International Labour Organization (ILO)
VZF Global Programme Manager



YESSICA CALVARIO

International Labour Organization (ILO)
VZF Mexico Project Manager



RODRIGO MOGROVEJO

International Labour Organization (ILO)
VZF Latin America Project Manager



KRISTINA KURTHS

International Labour Organization (ILO)
VZF Vietnam Project Manager



MARIANA INFANTE

International Labour Organization (ILO)
VZF Myanmar Senior Technical Officer



BERNARD FOE

International Labour Organization (ILO)
VZF Madagascar Project Manager



EVANS LWANGA

International Labour Organization (ILO)
VZF Ethiopia Project Manager



CHAIR



TAMIO TANIKAWA

National Institute of Advanced Industrial
Science and Technology (AIST)
Deputy Director
Research Center Team Leader



With the advancement of AI technology, the expectation of automated driving has been increasing. Human recognition technology is not only being used for automated driving in automobiles, but also for AGVs in factories as well. As a result, the use of autonomous mobile robots is expected to advance in a variety of fields. In this session, we will have an introduction to the technologies and applications for moving mobile robots more safely in spaces where people coexist, including automated driving, and confirm the direction of necessary safety technologies.

SPEAKERS



Click speakers for their full speeches

SAFETY OF MOBILE VEHICLES
– AMONG AUTOMOBILES AND ROBOTS –

HIROHISA HIRUKAWA

National Institute of Advanced Industrial Science and
Technology (AIST)
Invited Senior Researcher, Information Technology and
Human Factors

TOWARDS VISION ZERO – HUMAN FACTORS
AND AUTOMATION

EMMA JOHANSSON

VOLVO
Technology Specialist: Human Factors and Automation

CHALLENGE FOR FIELD ROBOTICS
- CHANGING OUTDOOR WORKS -

HIROKI MURAKAMI

IHI Corporation
Technical Advisor of Corporate Research &
Development

THE NECESSITY OF INTERNATIONAL
STANDARDS AND REGULATIONS FOR SOCIAL
IMPLEMENTATION OF COBOTS

TOMONORI SAWADA

Kawasaki Heavy Industries, Ltd.
Associate Officer Deputy Group Manager,
Product Planning Group,
Sales Group Robot Business Division

VISION ZERO, ROAD SAFETY AND THE WAY
TO AUTOMATED DRIVING

WALTER EICHENDORF

Der Deutsche Verkehrssicherheitsrat (DVR)
President

"A CAR THAT DOESN'T COLLIDE?"
"THE SECRET OF "EYESIGHT" CREATED BY
SUBARU

YUTAKA HIWATASHI

SUBARU CORPORATION
Technical Supervisor, Technical Division

STRATEGIES TO IMPROVE SAFETY OF DAIFUKU



HIROAKI KITA

Daifuku Co., Ltd.
Corporate Officer, Safety and Health Management

A.I TEAM LOGISTICS



HISASHI ICHIO

TOYOTA INDUSTRIES CORPORATION
Senior Executive Officer

CREATING SUSTAINABLE RESILIENCE IN OSH



STUART HUGHES

Mercedes-AMG Petronas Formula One Team
Head of Health and Safety

UNDERSTANDING SAFETY AND TRUST OF
HUMAN-ROBOT INTERACTION

MARVIN CHENG

National Institute for Occupational Safety & Health
(NIOSH)
General Research Engineer/Team Lead of Safety
Control Team

AUTONOMOUS VEHICLES AND ROBOTS AT
FEDEX

AARON PRATHER

FedEx Express
Senior Technical Advisor



CHAIR



TAKASHI KAWATA
SHIMIZU CORPORATION
Advisor



It is very important thing that to increase productivity and provide our clients with low-cost, high-quality constructions in corporations. But it's needed to enormous effort to build a structure at a low cost, or keeping swift pace, while ensuring safety. What this means is that we have to ensure both safety and productivity as we can't afford to cause our clients inconvenience, such as delays in construction schedules due to ensure safety. That's why we in the construction industry are implementing initiatives to make Safety Improvement and Improvement productivity coexist. In short, we would like to discuss the coexistence of Improvement productivity and Safety Improvement in the corporations in this session. We would also like to set a slogan as a goal for the session. Finally, through these discussions, we aim to promote awareness that contributes to the promotion of the SDGs and to the realization of well-being.

SUB CHAIR



PETE KINES
National Research Centre for
the Working Environment
Senior Researcher,
Safety Culture and Accidents



SPEAKERS



Click speakers for their full speeches

PROMOTING I-CONSTRUCTION AND IMPROVING SAFETY AT CONSTRUCTION SITE



YOSHITAKA MORITO
Ministry of Land, Infrastructure, Transport and Tourism
(MLIT)
Director of Engineering Affairs Division

ISSUES AND FUTURE ON OCCUPATIONAL SAFETY OF CONSTRUCTION INDUSTRY IN JAPAN



NAOTAKA KIKKAWA
National Institute of Occupational Safety and Health,
Japan (JNIOOSH)
Senior Researcher

MAKING EXPRESSWAY SAFER BY ADAPTING SAFETY 2.0 (COLLABORATIVE SAFETY)



HIROSHI HASHIMOTO
NEXCO
Facilities Management Office, Facilities Division
General Manager

BRINGING SAFETY 2.0 TECHNOLOGY TO CIVIL ENGINEERING SITES TO IMPROVE SAFETY AND SECURITY IN THE WORKPLACE



HIDESATO KOJIMA
SHIMIZU CORPORATION
Civil Engineering Division, General Manager

DEVELOPMENT OF AN AUTOMATED CONSTRUCTION SYSTEM - AIMING FOR A DRAMATIC INCREASE IN PRODUCTIVITY AND SAFETY



SATORU MIURA
KAJIMA CORPORATION
Principle Researcher

PROMOTING SAFE DEVELOPMENT, DRIVING HIGH-QUALITY ENTERPRISE DEVELOPMENT



WANG JIAN
China Communications Construction Company Limited
(CCCC), Vice President

IMPROVING SAFETY WHILE MINIMISING ENVIRONMENTAL IMPACTS: REASSESSING RADWASTE DISPOSAL



SUSIE HARDIE
Schwarz Hara Consult
Senior Scientific and Technical Consultant

LIFT-OSH: LEVERAGE INSTRUMENTS FOR OSH THROUGH SUPPLY CHAIN INITIATIVES IN THE CONSTRUCTION SECTOR



DIETMAR ELSLÉR
European Agency for Safety & Health at Work
(EU-OSHA)
Project Manager | Prevention and Research Unit

VISION ZERO TOOLS USED AND DEVELOPED BY THE ISSA CONSTRUCTION SECTION



KARL-HEINZ NOETEL
ISSA Section on Prevention in the Construction
Industry
President

KEY PERFORMANCE INDICATORS FOR INTEGRATING SAFETY, HEALTH AND WELLBEING IN CONSTRUCTION BUSINESS PROCESSES



PETE KINES
National Research Centre for the Working Environment
Senior Researcher, Safety Culture and Accidents

DIGITAL SOLUTIONS FOR CONSTRUCTION ON UNCERTAINTY SCENARIOS



JUAN MANUEL CRUZ
Acciona, S.A.
Industrial Relations, H&S and Sustainability Director

AN OPEN ERROR CULTURE: LEARNING OPPORTUNITY FOR COMPANIES



SABINE HERBST
German Social Accident Insurance (DGUV)
Dep. Section Manager Strategic Co-operation

DIGITIZING PDCA



PAUL GORDON HAINING
SKANSKA
Chief Environmental Health & Safety Officer

COMMITMENT IS KEY TO WELL-BEING



A H KHAN
Larsen & Toubro Limited
Vice President & Head – Operations (Mumbai)



CHAIR



RENE LEBLANC

International Occupational Hygiene Association (IOHA)
IOHA Past-President 2019-2020



SUB CHAIR



PETER JACOBS

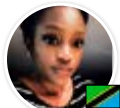
International Occupational Hygiene Association (IOHA)
IOHA Past-President 2018-2019



The World is facing the worst pandemic for over a Century with the Coronavirus SARS-CoV-2. Many countries faced the pandemic with different approaches as something this importance has never been experienced before. We will discuss and learned from the best practices, and less good experiences, that was implemented in different countries. Before this pandemic, ILO had estimated that approximately 2,8 millions workers were already dying from their work, mostly from non-communicable disease (asbestosis, silicosis, lung cancer, etc.) The experience and lessons learned from Covid-19 must be applied to continue protecting general population and workers from hazards, We will finally discuss in this session about how we can better protect workers and population's health from their work, life habits, their cultural legacy and their environment.

SPEAKERS

SCALING UP EFFORTS FOR BUILDING HEALTH, SAFETY AND WELLBEING IN HEALTHCARE ESTABLISHMENTS



DOROTHY AMALECK NGAILO

World Health Organization (WHO)
Occupational and Workplace Health Consultant

THE MULTIFACETED DIMENSIONS OF COVID-19 FROM CRISIS TO OPPORTUNITY



JOAQUIM PINTADO NUNES

International Labour Organization (ILO)
Labour Inspection and Occupational Safety and Health Branch, Officer in Charge

ZERO INJURIES, DISEASES AND DISORDERS AT WORK



JUKKA TAKALA

International Commission on Occupational Health (ICOH)
President

FIGHTING COVID 19: THE EXPERIENCE OF THE FIRST AFFECTED COUNTRY AFTER CHINA



WALTER RICCIARDI

World Federation of Public Health Associations (WFPHA)
President

A GLOBAL PERSPECTIVE ON OCCUPATIONAL HYGIENE: CURRENT AND FUTURE



PETER JACOBS

International Occupational Hygiene Association (IOHA)
Past-President 2018-2019

DEVELOPMENT OF NEW CHEMICAL MONITORING SYSTEMS IN THE WORKPLACE: REMOTE, REAL-TIME MONITORING SYSTEM AND SELF-MONITORING ASSISTANCE SYSTEM



DOOYONG PARK

Asian Network Occupational Hygiene (ANOH)
President

DIGITAL SOCIAL INNOVATION



AUDREY TANG

Public Digital Innovation Space (PDIS)
Digital Minister of Taiwan

THE RISE OF OCCUPATIONAL HYGIENE IN AFRICA: A CALL FOR MEANINGFUL COLLABORATION AMID COVID-19



NORMAN KHOZA

African Union Development Agency (AUDA)
Senior Program Officer

HOW CAN WE LEVERAGE COVID EXPERIENCE TO IMPROVE WORLDWIDE OCCUPATIONAL HEALTH AND SAFETY (OHS)



MEGUMI TESHIMA

International Council of Nurses (ICN)
Board Member
Professor, Graduate School of Nursing, Chiba University

USING A WORK SYSTEM APPROACH TO DESIGN SAFE AND HEALTHY WORK: INTEGRATING HUMAN FACTORS/ERGONOMICS PRINCIPLES



MAGGIE GRAF

International Ergonomics Association (IEA)
Vice President and Secretary General

L'ORÉAL



MR. ANTOINE VANLAEYS
L'Oréal S.A.
Chief Operations Officer &
Member of the Executive
Committee



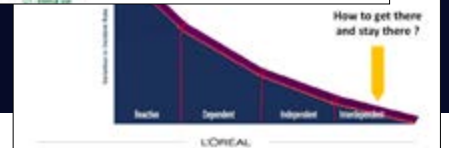
DR. PHILIPPE DELBECQ
L'Oréal S.A.
Corporate Industrial
Hygiene Toxicologist

TAKE HOME

- ✓ Accidents don't have to happen
- ✓ Apply real experts' commonsense advice
- ✓ Think home before risking self exposure to hazard
- ✓ Mix hard metrics to heart metrics

THIS IS OUR WAY TO MAKE VISION ZERO HAPPEN

L'ORÉAL



Shimz Smart Site Civil シミズ・スマート・サイト 土木分野

Realization of safe and attractive construction work site

Safety 2.0 (Collaborative Safety) Increase Safety

i-Construction Increase Productivity

Automatic concrete laying system

- Manpower savings (6 → 2 people)
- Increased productivity
- Eliminate labor-intensive work
- Improved safety



Shimz Smart Site Building シミズ・スマート・サイト 建築分野

4 Types of Robots

1. Move
2. Lock/rotate
3. Think
4. Coordinate each other
5. Work like a buddy / Cooperate with workers

Manpower Saving Effect: Human-Robot Collaboration

Robot Type	Manpower Saving Rate
[1] Robo-carrier	75%
[2] Robo-welder	79%
[3] Robo-buddy	78%
[4] Robo-lifter	80%

Current (2022): 55nos of Robot → Achieved 2% in overall manpower saving and 70% of manpower saving for robot-enabled-work

現状(2022年): 55台のロボット → 当該作業70%、工事全体で2%の省人化を達成

Further improve productivity and safety by increasing the application of robots in the future

将来的にロボットの適用を増やすことによって、更なる生産性と安全性の向上に繋がり続ける



MR. KAZUYUKI INOUE
SHIMIZU CORPORATION
President and Director



MR. STUART HUGHES
AMG PETRONAS
FORMULA ONE TEAM
Head of Health and Safety



Creating a Culture of Speaking Up

see it.
 say it.
 fix it.

WHAT HAVE YOU SEEN? WHY IS IT IMPORTANT? HAVE YOU RESOLVED IT?



Mr. Toto Wolff
Team Principal & CEO of the
Mercedes-AMG Petronas F1 Team



CHAIR



ALAN STEVENS

Institution of Occupational
Safety and Health (IOSH)
Head of Strategic Engagement



SUB CHAIR



MARIJANA ZIVKOVIC MTEGHA

Institution of Occupational
Safety and Health (IOSH)
Strategic Engagement Manager



Global trends are shaping a new world of work, with changes in workplace demographics, technology and working practices, as well as responses to the Covid-19 pandemic, putting increasing pressure on businesses to operate sustainably and responsibly. As a consequence, managers and leaders must now focus not only on what results are delivered, but how those results are obtained. At the heart of this is good OSH practice and this should be part of every manager's and leader's accountability.

Without exception, good sustainable businesses invest in the safety and the physical and mental health and wellbeing of their people. They plan and pursue their objectives in ways that prevent harm and provide benefits. Managers and leaders must progress beyond simple regulatory compliance to understand instead how the wellbeing of their staff can deliver reputational and competitive advantages. They must look outward and care about the communities in which they operate. They need to work to mitigate their impacts on the environment and society, and they consider the principle of social good in all that they do. Businesses like these seek leaders and managers who are constantly proactive in finding ways to grow and improve. They seek leaders and managers who look to the long term and actively plan for change. The leaders and managers they attract will build resilient organizations which gain enviable reputations and win more business. These entities will find it easier to recruit and retain great people, to make better client relationships and they are championed by their local community.

In summary, good businesses are more successful when placing OSH at the heart of their management and leadership frameworks. This panel session discusses the core competencies required to deliver excellent OSH performance in work settings, and it showcases examples of how outstanding OSH leadership and management practices have been driven throughout their corporate DNA.

SPEAKERS



Click speakers for their full speeches

TOPIC 1 - DRIVING OSH THROUGH CORPORATE GOVERNANCE AND SUSTAINABILITY PRINCIPLES: HOW DO WE INFLUENCE THE BOARDROOM?



GRIET CATTART

United Nations Global Compact
Head of Labour Rights at United
Nations



KERRIE WARRING

International Corporate
Governance Network (ICGN)
Chief Executive Officer



SAKON UDA

EBARA CORPORATION
Independent Director, Chairman
of the Board of Directors
(Retired in March 2022)



SUSUMU AMANO

FUJITSU LTD.
Corporate Executive Officer,
Head of Employee Success Unit



VANESSA HARWOOD-WHITCHER

Institution of Occupational
Safety and Health (IOSH)
Chief Executive

TOPIC 2 - THE HEALTHY PROFIT: A BUSINESS CASE FOR OSH LEADERSHIP

DR. MOHAMMED AZMAN AZIZ
MOHAMMED

Social Security Organization (SOCSO)
of Malaysia
Chief Executive Officer (CEO)



MARTINA MACPHERSON

Oddo BHF Asset Management
Global Head of ESG Strategy



BUSOLA ALOFE

YF Talent Partners
Principal Partner



ROBYN BENNETT

New Zealand Institute of Safety
Management (NZISM)
President

TOPIC 3 - SUPPLY CHAINS: THE ROLE OF MANAGEMENT AND LEADERSHIP IN MOVING TOWARDS VISION ZERO



OCKERT DUPER

International Labour
Organization Global
- Vision Zero Fund
Programme Manager



FELIX NII TETTEY OKU

Asian Development Bank
Senior Social Development
Specialist (Safeguards)



SITTICHOKE HUCKUNTOD

NIKE, Inc.
HSE Director



LESLEY KAVANAGH

NIKE, Inc.
Senior Director, Partner
Responsibility



ARIF ZAMAN

Commonwealth
Businesswomen's Network
(CBWN)
Executive Director

TOPIC 4 - SAFE AND HEALTHY WORLD OF WORK: ADDRESSING THE CHALLENGES OF DISSEMINATION OF OSH RESOURCES TO ALL



DR IVAN IVANOV

World Health Organisation (WHO)
Head of Occupational and Workplace
Health



LOUISE HOSKING

Institution of Occupational Safety
and Health (IOSH)
President (2021-2022)



BERND TREICHEL

International Social Security Association
(ISSA)
Senior Technical Specialist in Prevention
and Social Security



RICHARD BATE

FIA Formula E World Championship
Principle HSE (OSH) Consultant



CHAIR



BERND TREICHEL

International Social Security Association (ISSA)
Senior Technical Specialist in Prevention and Social Security



The Proactive Leading Indicators are offered by the International Social Security Association (ISSA) as a free supplementary tool for every enterprise and organization committed to VISION ZERO, be they advanced or beginner, large or small, local or international. The Proactive Leading Indicators can be used for multiple purposes: improving safety, health and wellbeing, working towards external business relations and supply chains, or for benchmarking purposes. They were developed by sourcing information and evidence from leading VISION ZERO organizations, scientific literature, publications from other reputable sources (e.g. national agencies, industry), and the expertise and experience available in the project team and steering committee. The session will showcase the science behind the indicators, offer practical solutions and provide application examples and results achieved by companies.

SUB CHAIR



TORU SUGIMOTO

Corporate HSE Manager
JGC HOLDINGS CORPORATION



SPEAKERS



Click speakers for their full speeches

THE VISION ZERO PROACTIVE LEADING INDICATORS



GERARD ZWETSLOOT

Gerard Zwetsloot Research & Consultancy
ISSA Vision Zero Indicator Project
Research Team Leader

VISION ZERO AT CEMENTOS PROGRESO



JOSÉ RAUL GONZÁLEZ

Cementos Progreso, S.A.
Chief Executive Officer

BENCHMARKING VISION ZERO IN CÔTE D'IVOIRE



YVES YÉBOUÉ KOUAMÉ

Caisse Nationale de Prévoyance Sociale (CNPS)
Director of Prevention and Promotion

COMPANY EXAMPLES IN AUSTRALIA



JILLIAN HAMILTON

MANAGE DAMAGE
Managing Director

VISION ZERO – THE AFRICAN EXPERIENCE



EHI IDEN

Occupational Safety and Health Africa Foundation (OSHAfrica)
President

VISION ZERO PROACTIVE LEADING INDICATORS AND THEIR APPLICATION IN THE CONSTRUCTION INDUSTRY



TORU SUGIMOTO

JGC HOLDINGS CORPORATION
Corporate HSE Manager



CHAIR



RIEKO HOJO

National Institute of Occupational Safety and Health, Japan (JNIOSH)
Senior Researcher,
Associate Professor



In this Session, human factors about safety, health and happiness will be discussed. In addition, not only these three factors but also well-being at work would be the topic of this session. In this session six authorities of Human Factors would give talks.

A principle of human behavior from a research field called [Behavior analysis] and some examples of experiment using the principle would be introduced. Also, specialists of Human Factors at National Institutes of France and Finland will introduce research outcomes, such as technologies in the transport and logistics sector, and human-focused work practices in nuclear maintenance operations from human side. Then, a chief consultant from venerable Danish consultant company in working environment and management will introduce Proactive Leader Indicator (PLI) leading to worker well-being. In addition, a researcher having background in human geography and cultural anthropology, will show results from explored the fields of social housing relocation projects, peri-urban disaster management, water governance and volumetric urbanism.

Our common focus and goal are better, safer, happier lives and higher well-beings of human at work. In the future, it will be necessary not only to prevent accidents and ensure safety, but also to change social systems to directions toward happiness and welfare through a positive cycle such as rewards not punishment. For that reason, research on human factors will become important in the future.

SPEAKERS



Click speakers for their full speeches

COMMUNITY ENGAGEMENT AND RISK REDUCTION



MARILU MELO ZURITA

University of New South Wales (UNSW)
Senior Lecturer, PhD

FUNDAMENTALS OF BEHAVIOR BASED SAFETY (BBS)



CHRISTOPH BORDLEIN

University of Applied Sciences Würzburg-Schweinfurt (FHWS), Professor

HUMAN FACTORS TO RENEW SAFETY



ANNA-MARIA TEPERI

Finnish Institute of Occupational Health (FIOH)
Research Professor

TASK ANALYSIS OF PHYSICAL THERAPIST DURING REHABILITATION FOR A PATIENT WEARING EXOSKELETON APPLICATION OF RISK ASSESSMENT IN MECHANICAL SAFETY



RIEKO HOJO

National Institute of Occupational Safety and Health, Japan (JNIOSH)
Senior Researcher, Associate Professor

NEW TECHNOLOGIES: INTEGRATION AND ACCEPTATION



LIÊN WIOLAND

Institut national de recherche et de sécurité (INRS)
Head of Studies

VISION ZERO PROACTIVE LEADING INDICATORS FOR WELL-BEING



PERNILLE THAU

Human House
Head of Department



CHAIR



YOSHIHIRO NAKABO

National Institute of Advanced Industrial
Science and Technology (AIST)
Senior Researcher



Recent advances in IoT devices have made it possible for people and machines to work together or co-operate safely. We will collect reports and discuss issues related to safety technologies, practices, and standardization when humans and robots, or various machines share time and space to operate in a variety of work environments, not only in manufacturing, but also in various other work environments.

SPEAKERS



Click speakers for their full speeches

HUMAN BODY ELASTICITY: CORRIDORS AND LIMITS



JAN ZIMMERMANN

Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA), Section Manager: Principles, Methods and Software Solutions

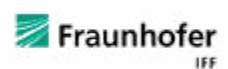
HUMAN CENTERED COLLABORATION AND COOPERATION WITH ROBOTS IN THE FIELD OF MANUFACTURING FOR OUR FUTURE WORKS



KAZUTSUGU SUITA

TOYOTA MOTOR CORPORATION
Elemental Technology Development Project Manager

GETTING PAST THE HYPE CYCLE – TRENDS AND OUTLOOK FOR HUMAN-ROBOT COLLABORATION



JOSÉ SAENZ

FRAUNHOFER IFF
Business Unit Robotic Systems Group Leader

DISCUSSION ABOUT SAFETY OF MOBILE ROBOTS IN INDUSTRIAL APPLICATIONS



TIMO MALM

VTT Technical Research Centre of Finland (VTT)
Senior Scientist

THE “NEW NORMAL” - HOW NEW TECHNOLOGY ROBOTICS IMPROVE WORKER SAFETY AND LESSEN STRAINS THAT CAUSE ERGONOMIC INJURIES



ROBERTA NELSON SHEA

Universal Robots
Global Technical Compliance Officer

EXAMINATION OF RELIABILITY AND CONVENIENCE OF THE SAFEGUARDING SUPPORTIVE SYSTEM (SSS) – EXPERIMENTAL EVIDENCE AT A COMPANY



SHOKEN SHIMIZU

National Institute of Occupational Safety and Health, Japan (JNIOH), Supervising Researcher

INTRODUCTION OF NEW TECHNOLOGIES THAT ACCELERATE COLLABORATIVE APPLICATION OF ROBOT SYSTEM - TO IMPROVE SAFETY, HEALTH AND WELL-BEING OF WORKERS -



TONY FUNAKI

IDEC CORPORATION
Vice President of Marketing (Product Marketing)

COLLABORATIVE ROBOT WITH EASE OF USE EVEN FOR FIRST-TIME ROBOT USERS



MASAHIRO MORIOKA

FANUC CORPORATION
ROBOT Business Division, ROBOT Mechanical Development Laboratory, Chief Engineer

COLLABORATIVE ROBOTICS: OCCUPATIONAL HEALTH AND SAFETY ISSUES



JEAN-CHRISTOPHE BLAISE

Institut national de recherche et de sécurité (INRS)
Work Equipment Engineering Division

THE WHY, WHAT, HOW AND WHEN OF HUMAN-ROBOT COLLABORATION



TOMAS LAGERBERG

ABB LTD.
Robotics Division and Robotics & Discrete Automation Business Area, Global Patent Officer

SAFETY OF COLLABORATIVE MACHINES - DISCUSSION ABOUT RISK MANAGEMENT -



HIROO KANAMARU

Mitsubishi Electric Corporation
Advanced Technology R&D Center, Senior Engineer

FROM SAFETY FOCUSING ON ACCIDENT PREVENTION TO SAFETY THAT ALSO CONSIDERS PRODUCTIVITY



TAMIO TANIKAWA

National Institute of Advanced Industrial Science and Technology (AIST)
Deputy Director, Research Center Team Leader

PIONEERING THE FUTURE FOR OCCUPATIONAL SAFETY THROUGH WEARABLE CYBORG HAL - CYBERNICS: FUSION OF HUMANS, ROBOTS AND INFORMATION SYSTEMS -



YOSHIYUKI SANKAI

CYBERDYNE Inc.
President and CEO

TOLERANCE VALUES ACCEPTABLE FOR MINOR SKIN INJURIES



YOJI YAMADA

Nagoya University
Professor
ISO/TC299, JP Member

DEVELOPMENT OF COLLABORATIVELY WORKING ROBOTS (ROBO-CARRIER/ROBO-WELDER/ROBO-BUDDY) FOR CONSTRUCTION SITES AND SAFETY



MASAHIRO INDO

SHIMIZU CORPORATION
Construction Technology, Robot ICT
Senior Managing Officer, General Manager



CHAIR

**SHOKEN SHIMIZU**

National Institute of Occupational Safety and Health, Japan (JNIOSH)
Supervising Resercher



This session will introduce examples of Vision Zero activities and health and safety activities (Zero Accident Movement) in workplaces in various countries, aiming to reduce occupational accidents, occupational diseases and risk factors in manufacturing sites to zero. Vision Zero is a global campaign involving companies and organizations that share the belief that all disasters, illnesses, and injuries are preventable, and the fundamental values of safety, health, and happiness. Currently, 11,000 companies and organizations are participating in this campaign, and the number is increasing every year. Through this session, we aim to build an international network to achieve zero occupational accidents.

SUB CHAIRS

**RIEKO HOJO**

National Institute of Occupational Safety and Health, Japan (JNIOSH),
Senior Researcher, Associate Professor

**JILLIAN HAMILTON**

MANAGE DAMAGE
Managing Director



SPEAKERS



Click speakers for their full speeches

OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT IN THE AGC GROUP

**SHIGEKUNI INOUE**

AGC Inc.
Senior Executive Officer, GM of EHSQ General Div.,
GM of AGC Yokohama Technical Center

SAFETY FOR WORKERS IS THE BASIS OF THE NEW SOCIAL VALUES WELL-BEING

**PROFESSOR DR. MASAO MUKAIDONO**

Institute of Global Safety Promotion (IGSAP)
Chairman of Vision Zero Summit 2022 Japan Organizing Committee (JOC)

JAPAN'S UNIQUE OSHMS STANDARD THAT INCORPORATES ISO 45001

**SHINGO SAITO**

Japan Industrial Safety and Health Association (JISHA)
Chief Certification Officer/ Director

NIPPON STEEL SIX SAFETY RULES

**TOURU SHUMIYA**

NIPPON STEEL CORPORATION
Head of Safety Promotion Department

SAFETY IN CONSTRUCTION BUSINESS AS A CORPORATE PHILOSOPHY

**ANDREAS MAINKA**

Mainka Bau GmbH & Co. KG
Owner / Managing Director

ROAD CONSTRUCTION SAFETY INNOVATION IN JAPAN

**HISASHI AITA**

NIPPO CORPORATION
Production Development Centre, General Engineering Department, General Manager

EMERGING HEALTH AND SAFETY RISKS AT THE WORKPLACE BY 2030

**JOHAN VAN MIDDELAAR**

TNO
Senior Consultant Health and Safety

BUILDING A SAFETY CULTURE IN IDEC

**KOJI AKAMATSU**

IDEC CORPORATION
Senior Executive Officer in Charge of Manufacturing & SCM

DAIWA HOUSE IS PROMOTING SAFETY2.0 AND PHYSICAL SAFETY MEASURES TO CREATE VISION ZERO TOMORROW

**TOMOHITO MORI**

DAIWA HOUSE INDUSTRY CO.,LTD.
Safety Management Department, Chief

BEHAVIOR BASED SAFETY AS PART OF PREVENTION CULTURE

**LENKA ADAMICKOVA**

Bosch Rexroth AG
Department of Safety and Environment Lohr HSE-Lo
Specialist Engineer in BBS

EFFECTS OF 3-POSITION ENABLING SWITCH USED FOR ROBOT TEACH ON WELL-BEING OF WORKER UNDER MAN-MACHINE COLLABORATIVE SYSTEM

**RIEKO HOJO**

National Institute of Occupational Safety and Health, Japan (JNIOSH),
Senior Researcher, Associate Professor

SAIPEM'S 15 YEARS OF JOURNEY TO VISION ZERO

**DAVIDE SCOTTI**

The LHS Foundation
General Secretary

WORKSHOPPING TO PREVENT OCCUPATIONAL ILL HEALTH IN CONSTRUCTION

**ANTTI LEINO (MATTI PALOMÄKI, PEER PRESENTER)**

Skanska Finland
Health, Safety, Environment, Business Unit,
Vice President

CURRENT STATUS OF HEALTH AND SAFETY IN JAPAN - INITIATIVE TO RISK ASSESSMENT

**HIDEO KAMAISHI**

Ministry of Health, Labour and Welfare (MHLW)
Labour Standards Bureau, Industrial Safety and Health Department, Safety Division, Director



CHAIR

**SADAO TAKEDA**

Institute of
Global Safety Promotion
(IGSAP), Director



SUB CHAIRS

**STAVROULA LEKA**

University of Nottingham
Emeritus Professor of
Work & Health Policy

**MANAL AZZI**

International Labour Organization
Managing Director,
Senior Occupational Safety and
Health Expert

**LARS TORNVIG**

DANISH VISION
ZERO COUNCIL
Director and Host



"Well-being" is newly introduced for Occupational Safety & Health activities by Vision Zero. Recently, organizations which consider the "Well-being" as one of the key management targets, have been increasing. Vision Zero supports such trend. It also brings the sustainability of business development as well as people's decent working life, thus contributes to the achievement of SDGs. The SDGs have become an indispensable aspect for business and society now and in the future.

In this session, the following subjects will be discussed by world opinion leaders from academia and business.

- (1) Concept and role of well-being
- (2) Well-being and organizational approaches in corporate management
- (3) Environmental changes and the growing importance of well-being in OSH
- (4) Well-being, Innovation and International Standardization
- (5) How to understand SDGs, SDGs /ESG management by organizations

SPEAKERS



Click speakers for their full speeches

WELL-BEING AND MANAGEMENT

**TAKASHI MAENO**

Keio University
Graduate School of System Design and Management
Professor

PRIORITIZING PEOPLE - EFFICIENCY AND
ENGAGEMENT FROM SOCIAL SUSTAINABILITY**PIRJO VIRTANEN**

Greenstep
Environmental Sustainability
Senior Manager (Ex. Vice President, Metso Outotec)

IMPROVING EMPLOYEES WELL-BEING TO MAKE
HOME THE HAPPIEST PLACE IN THE WORLD**MIWA YAMADA**

Sekisui House, Ltd.
Diversity and Inclusion Promotion Department
Department Chief Manager, Executive Officer

WELL-BEING AND SUSTAINABILITY IN THE FUTURE OF WORK

**STAVROULA LEKA**

University of Nottingham
Emeritus Professor of Work & Health Policy

WELL-BEING AT WORK

**IVAN D. IVANOV, MD, PHD**

World Health Organization (WHO)
WHO Headquarters
Head, Occupational and Workplace Health

CORPORATE CULTURE/ WELL-BEING/INNOVATION

**MASATADA "SEICHU" KOBAYASHI**

Rakuten Group, Inc.
Group Managing Executive Officer
Chief Well-being Officer

IMPROVING EMPLOYEES WELLBEING THROUGH
ORGANISATIONAL INTERVENTIONS**KARINA NIELSEN**

The University of Sheffield
Professor of Work Psychology

"THE PROSPEROUS FUTURE" TO BE PURSUED
BEYOND INNOVATION**SATOSHI ITOH**

New Energy and Industrial Technology Development
Organization (NEDO), Digital Innovation Unit
Director General

SDGs AND VALUE TRANSFORMATION (VX)

**KAZUO TASE**

SDG Partners, Inc.
President, CEO

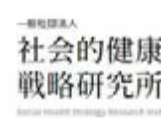
ORGANISATIONAL ANCHORING OF EMPLOYEE
MENTAL WELL-BEING AND STRESS PREVENTION**NADIA EL-SALANTI**

Novo Nordisk A/S
Organisational Psychologist

WELL-BEING AND SDG 8-DECENT WORK

**PAUL A. SCHULTE**

National Institute for Occupational Safety & Health
(former director, division of science in integration)
Consultant

INTERNATIONAL STANDARDIZATION OF WELL-
BEING(HEALTH) MANAGEMENT AT ORGANIZATIONS**KENICHIRO ASANO**

Social Health Strategy Research Institute (SHSRI)
Representative Director

VISION ZERO IS NOT A MATTER OF AGE - NEXT LEVEL
SAFETY IS MORE SUSTAINABLE WHEN IT IS FUN -**PHILIPPE DELBECQ**

L'Oréal S.A.
Corporate Industrial Hygiene Toxicologist

TRENDS AND MOVEMENTS OF SUSTAINABLE LEADERSHIP
AND VISION ZERO WELL-BEING IN DANISH ORGANIZATIONS**STINE MOESMAND**

Human House
Department Manager and Organizational Psychologist



CHAIR



DR. TOMMI ALANKO
Finnish Institute of
Occupational Health
(FIOH)
Director of Occupational
Safety Unit



Vision Zero aims to promote safety, health, and well-being globally. Learning is a key element to realize Vision Zero in practice. The session focuses on diverse aspects of building OSH capacity by presenting campaigns, training programs and projects which aim to raise OSH awareness and provide tools to strengthen OSH expertise. The session also reflects existing and future challenges as well as opportunities for OSH training. What are effective and meaningful ways to learn and train OSH in educational and work context? What works and why? The session provides a forum for sharing experiences and introducing innovative means and methods of traditional and digital training. Presentations cover e.g. design and implementation of e-learning and virtual reality training.

SUB CHAIRS



THOMAS FULLER
International
Occupational Hygiene
Association (IOHA)
President



RIIKKA RUOTSALA
Finnish Institute of
Occupational Health
(FIOH)
Researcher



SPEAKERS



Click speakers for their full speeches

OVERVIEW OF COLLABORATIVE INTERNATIONAL EDUCATION, TRAINING, AND CREDENTIALING PROJECTS TO BUILD GLOBAL OSH CAPACITY



THOMAS FULLER

International Occupational Hygiene Association (IOHA)
President

VISION ZERO COMPETENCE DEVELOPMENT MODEL AND ITS COMPONENTS



HELMUT EHNES

International Social Security Association (ISSA) Mining,
Secretary General

GLOBAL COLLABORATION FOR OCCUPATIONAL HEALTH & SAFETY EDUCATION: THE ROLE OF VOLUNTEERS AND NGOS



MARIANNE LEVITSKY

Workplace Health Without Borders (WHWB)
Founding President and Board Secretary

BUILDING GLOBAL OHS CAPACITY THROUGH GRASSROOTS COLLABORATION



CHRIS LASZCZ-DAVIS

Occupational Hygiene Training Association (OHTA)
Co-Chair

EMPOWERMENT FOR GOOD WORK AND SUSTAINABLE BUSINESS THROUGH HIGHER EDUCATION



ULRIKE BOLLMANN

The European Network Education and Training
in Occupational Safety and Health (ENETOSH),
International Cooperation Division - Institute for Work
and Health of the DGUV

STANDARD AND EVOLVING APPROACHES TO OSH TRAINING AT OMRON



KEVIN BULATEK

Omron Management Center of America, Inc.
Risk, EHS and Facilities
Senior Director

HSE TRAINING STRATEGY IN A CHANGING WORLD



ALBERTO SCHIAVON

Pirelli & C. S.p.A.
Group Safety Manager

HOW TO MAKE A DIFFERENCE? THE IMPACT AND EVALUATION OF OSH TRAINING



RIIKKA RUOTSALA

Finnish Institute of Occupational Health (FIOH)
Researcher

IOHA - NATIONAL ACCREDITATION RECOGNITION SCHEME REDUCING THE GLOBAL BURDEN OF OCCUPATIONAL DISEASE



PHILLIP HIBBS

International Occupational Hygiene Association (IOHA)
Hibbs & Associates Pty Ltd
Principal Consultant

CEO SHOULD TAKE LEADERSHIP ON "SAFETY HEALTH AND WELLBEING" - IMPLEMENTATION OF THE E-LEARNING AND QUALIFICATION SYSTEM FOR THE TOP MANAGEMENT AND THE RESULTS IN MORE THAN EIGHTY JAPANESE COMPANIES



TOSHIHIRO FUJITA

Institute of Global Safety Promotion (IGSAP)
Director

STRUCTURING OF KNOWLEDGE MANAGEMENT FOR INDUSTRIAL SAFETY



SAORI TAKETA

Nippon Electric Control Equipment Industries
Association (NECA), Control Safety Committee
Vice Chair



CHAIR



TOSHIYUKI KAJIYA

International Electrotechnical Commission (IEC)
Vice-chair of IECEE Certification Management Committee of IEC



SUB CHAIR



ATSUKO SARUHASHI

Japanese Industrial Standards Committee (JISC)
ISO TMB Member



In the time where ICT, AI, and robotics are developing rapidly, new technologies are enabling the new way of OSH that was not possible before. How the OSH in future will and should look like has been described in the IEC MSB white paper "Safety in the Future" (published in November 2020), and ISO is also working on how robots, which work with humans, should operate while keeping workers' safety. This session will look at how technologies should develop in tandem with international standards, such as in the aspect of conformity assessment.

SPEAKERS



Click speakers for their full speeches

BRAVE NEW WORLD - EXPECTATION TO STANDARDIZATION DEVELOPMENT ORGANIZATIONS (SDOS) ON OSH LEADING TO SAFETY, HEALTH AND WELLBEING



DIETMAR REINERT

Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA), Director

CHALLENGE OF CREATING THE IEC'S WHITE PAPER "SAFETY IN THE FUTURE"



KAZUHIKO TSUTSUMI

International Electrotechnical Commission (IEC)
Vice President & Chair of Market Strategy Board (MSB)

IEC GENERAL STANDARDIZATION POLICY & STRATEGY TO SUPPORT THE SMARTER SOCIETY



RALPH SPORER

International Electrotechnical Commission (IEC)
Vice President

SAFETY IN CONTEXT OF THE UN SDGs



VIMAL MAHENDRU

International Electrotechnical Commission (IEC)
IEC Special Envoy for UN SDGs

IEC WHITE PAPER "SAFETY IN THE FUTURE" OPENS THE WAY TO INTERNATIONAL STANDARDIZATION ACTIVITIES FOR SAFETY, HEALTH AND WELL-BEING



MASAO DOHI

International Electrotechnical Commission (IEC)
ACOS JP Member

A HOLISTIC SAFETY APPROACH



KOJI DEMACHI

International Electrotechnical Commission (IEC)
IEC/SC65A Chair, IEC/TC65/WG20 Convenor

TRADE FACILITATION MECHANISMS BASED ON THE INTERNATIONAL STANDARDS AND THEIR CONFORMITY ASSESSMENT



MITSUO MATSUMOTO

International Organization for Standardization (ISO)
Vice President

PSYCHOLOGICAL HEALTH AND SAFETY AT WORK: MANAGING PSYCHOSOCIAL RISK



NORMA MCCORMICK

International Organization for Standardization (ISO)
Covener

ISO/CASCO ACTIVITIES FOR THE CREDIBILITY OF CONFORMITY ASSESSMENTS



AZUSA NAKAGAWA

Japanese Standards Association (JSA)
Executive Director

SAFETY IN THE FUTURE, CONFORMITY ASSESSMENT FOR TOMORROW



SHAWN PAULSEN

International Electrotechnical Commission (IEC)
IEC Vice President (CAB)

VISION BASED MARKET SOLUTIONS



STEVEN MARGIS

Underwriters Laboratories (UL)
Director

IEC'S GLOBAL APPROACH TO CERTIFYING COMPETENCE OF PERSONS IN THE EX SECTOR



CHRIS AGIUS

IEC-IECEX
Executive Secretary

EX SCHEME IMPLEMENTATION - PETRONAS EXPERIENCES



FAUDZI MOHD YASIR

PETRONAS, PD & T Division
Head of Electrical, Group Technical Solutions

INNOVATION FOR SAFETY AND ANSHIN



AKIRA IZUMI

Tokyo Institute of Technology
Specially Appointed Professor



CHAIR



YOSHIKI SEO

National Institute of
Advanced Industrial
Science and
Technology (AIST)
Director, Information
Standardization Office



Artificial intelligence is thought to be the key game changer for almost all of businesses in the near future. However, nobody knows how to manage solutions including AI components, and quality management technologies for AI software is still very premature. In this session, difficulty to manage AI quality and how we can overcome the problem is to be discussed. We will put special focus on the relationship between AI quality management and the Vision Zero concept (i.e. AI embedded robots working together with human).

SUB CHAIRS



TAKASHI EGAWA

National Institute of
Advanced Industrial
Science and
Technology (AIST)
Standardization
Promotion Office



KOICHI KONISHI

National Institute of
Advanced Industrial
Science and
Technology (AIST)
Digital Architecture
Research Center



SPEAKERS



Click speakers for their full speeches

EUROPEAN APPROACH TO AI
STANDARDIZATION IN SUPPORT OF THE EU
REGULATIONJTC 21
Artificial
Intelligence

PATRIC BEZOMBES

CEN-CENELEC
Vice-chair of the CEN-CENELEC JTC 21 on AI Standardization,
Convenor of the JTC 21 Strategic Advisory Group

SAFETY THROUGH SYSTEMS USING ARTIFICIAL
INTELLIGENCE

AUDREY CANNING

International Electrotechnical Commission (IEC)
Director, Virkonnen Ltd, UK IEC SC65A Representative on
IEC ACOS and ISO/IEC/JTC1/SC42 IEC Convener MT61508-3

AI AND DIGITIZATION FOR MEDICAL ELECTRICAL
EQUIPMENT AND SOFTWARE AS A MEDICAL
DEVICE FOCUS - SAFETY

REGINA GEIERHOFER

Siemens Healthineers AG
Secretary, IEC TC62, SC62B and SC62C

INTRODUCTION TO AI GOVERNANCE IN JAPAN



TAKUYA IZUMI

Ministry of Economy, Trade and Industry (METI)
Information Policy Planning
Director

MACHINE LEARNING QUALITY MANAGEMENT
GUIDELINE

YUTAKA OIWA

National Institute of Advanced Industrial Science and
Technology (AIST), Digital Architecture Research Center
Deputy Director

SHARED AUTONOMY FOR DEPENDABLE
HUMAN ROBOT INTERACTIONS

SETHU VIJAYAKUMAR

The Alan Turing Institute
Robotics and AI
Programme Director

ARTIFICIAL INTELLIGENCE AND THE
OCCUPATIONAL HEALTH PRACTITIONER

JAY VIETAS

National Institute of Occupational Safety and Health
(NIOSH),
Emerging Technologies Branch, Chief

THE RISK EVOLUTION, DETECTION, EVALUATION, AND
CONTROL OF ACCIDENTS (REDECA) FRAMEWORK

HOUSHANG DARABI

University of Illinois Chicago
Department of Mechanical and Industrial Engineering
Professor

AI AND THE FUTURE OF SOCIETY -- FROM THE
PERSPECTIVES OF THE AIRC

JUNICHI TSUJII

National Institute of Advanced Industrial Science and
Technology (AIST)
AI Research Center (AIRC), Director

CHALLENGES FOR AI QUALITY AT IBM



ATSUSHI YAMADA

International Business Machines Corporation (IBM)
IBM Distinguished Engineer

DRIVING THE DIGITAL SHIFT
- NEC'S DX INITIATIVES -

TOSHIFUMI YOSHIZAKI

NEC Corporation
Executive Vice President, Digital Business Platform Unit,
President

SOCIAL IMPLEMENTATION WITH
TRUSTED AI TECHNOLOGIES

HIROKAZU ANAI

Fujitsu Limited
Artificial Intelligence Laboratory
Head

HITACHI'S AI ETHICS CONCEPT AND USECASES
OF SAFE AND SECURE ENVIRONMENT

TATSUHIKO KAGEHIRO

Hitachi, Ltd.
Center for Technology Innovation - Advanced Artificial
Intelligence Research & Development Group,
General Manager



CHAIR



**MAGDALENA
WACHNICKA-WITZKE**

Agricultural Social
Insurance Fund (KRUS)
Director of the
Communication and
International Cooperation
Office



SUB CHAIRS



KANNAN KRISHNAN
Office of Environmental
Health Hazard Assessment
(OEHHA)
Chief of the Air & Site
Assessment and Climate
Indicators Branch at
OEHHA



MUNEKI TOMITA
National Agriculture
and Food Research
Organization (NARO)
Head of System Safety
Engineering
Research Area



Agriculture as a sector of economy has one of the highest records of fatal accidents and injuries at work. The Vision Zero concept with its three dimensions of occupational prevention: safety, health and wellbeing proposes how to structure a prevention system to build a successful OSH culture in Agriculture – AGRI (OSH) CULTURE. People working in agriculture face many different types of occupational hazards and are exposed to many various types of occupational risks. This makes the building of AGRI OSH Culture so important but at the same time very challenging. In this session, we shall present current occupational hazards that farmers face during their work and possible solutions how to prevent them to keep safety, health and wellbeing of farmers. The session will be organized in three following subtopics:

1. Environmental hazards and challenges
2. Use of modern technologies and artificial intelligence.
3. Unbearable burden of stress – mental health and wellbeing

SPEAKERS



Click speakers for their full speeches

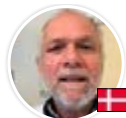
CLIMATE CHANGE AND BIOLOGICAL HAZARDS



ARIANE ADAM-POUPART

Institut national de santé publique du Québec (INSPQ)
Scientific Advisor at Dep. of Biological Hazards & OH

PESTICIDES IN AGRICULTURE



ERIK JØRS

Odense University Hospital (OUH)
Clinical Associate Professor

SAFE, SUSTAINABLE AND ENVIRONMENTALLY FRIENDLY AGRICULTURE



TOMASZ ZDZIEBKOWSKI

Top Farms sp. z o.o.
Chief Executive Officer

ERGONOMICS - EXOSKELETONS IN AGRICULTURE



CATHERINE TRASK

Royal Institute of Technology (KTH)
Associate Professor

KUBOTA'S INITIATIVES ON SMART AGRICULTURE



SATOSHI IIDA

Kubota Corporation
Senior Technical Advisor

ARTIFICIAL INTELLIGENCE IN AGRICULTURE - RESEARCH, DEVELOPMENT AND DIFFUSION OF TECHNOLOGIES AIMING ZERO ACCIDENT IN AGRICULTURE IN NARO



KOTA SHIMOMOTO

National Agriculture and Food Research Organization (NARO)
Institute of Agricultural Machinery
Researcher

SUICIDE PREVENTION PLAN FOR FARMERS IN FRANCE



BENOIT MOREAU

Caisse centrale de la MSA (CCMSA)
National Advisor on Occupational Risk Prevention

WELLBEING APPROACH UNDER SEPARATE SOCIAL INSURANCE SYSTEMS FOR FARMERS



ERICH KOCH

Sozialversicherung für Landwirtschaft, Forsten und Gartenbau (SVLFG)
Head of International Relations

EARLY INTERVENTION AND A HOLISTIC APPROACH TO SUPPORT FARMERS' WORK ABILITY IN FINLAND



PÄIVI WALLIN

Farmers' Social Insurance Institution of Finland (Mela)
Director

STRATEGIES TO IMPROVE OCCUPATIONAL SAFETY IN DAIKICH FARM



EMI OHYOSHI

daikichi farm
President

PESTISAFE; A TOOL FOR PREVENTIVE PESTICIDE RISK ASSESSMENT IN AGRICULTURE



UNIVERSITÀ
DEGLI STUDI
DI MILANO

CLAUDIO COLOSIO

University of Milan
Associate Professor of Occupational Health

EXPERT IN THE DISCUSSION PANEL OF THE AGRICULTURE SESSION



ISAAC ABRIL MUÑOZ

Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT)
Dep of Working Conditions in Agriculture and Fisheries
Director



CHAIR



**DR. MOHAMMED AZMAN
AZIZ MOHAMMED**

Social Security Organisation
of Malaysia (SOCSO)
CEO / Director General



The Vision Zero mindset that all accidents, diseases and harm at work can be prevented, has been shared by a large and still growing number of companies and partner organizations, including governments and social security institutions. Their active role in promoting Vision Zero at national level is of critical importance for achieving the objective of the global campaign, to support the development of a prevention culture based on the Vision Zero mindset.

During this session senior representatives from ministries, worker's compensation systems and other social security organizations will present their Vision Zero strategies and programs and share valuable experiences related to the successful promotion of Vision Zero in their countries. Reflecting the diverse national contexts, different formats have been developed, ranging from a focus on Zero Accidents or integrating Vision Zero as part of a wider prevention campaign, to developing a new national prevention strategy dedicated to promoting Vision Zero.

SUB CHAIRS



**HANS-HORST
KONKOLEWSKY**

International ORP
Foundation (FIORP),
President



AZLAN DARUS

Social Security
Organisation of
Malaysia (SOCSO)
Head of Prevention



SPEAKERS



Click speakers for their full speeches

**VISION ZERO – SAFETY, HEALTH AND
WELLBEING AT WORK**



SIONG HIN HO

Ministry of Manpower, Government of Singapore
Senior Director

**NATIONAL VISION ZERO STRATEGIES IN ASIA
- STRATEGY TO PROMOTE VISION ZERO IN HONG KONG**



BONNIE YAU

Occupational Safety and Health Council
CEO

**NATIONAL STRATEGY FOR VISION ZERO
- THE MALAYSIAN EXPERIENCE**



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-ACCIDENT TOTAL PARTICIPATION CAMPAIGN**



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Deputy Director

**NATIONAL STRATEGY TO PROMOTE VISION
ZERO**



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Environmental Services Consulting Co. Ltd. (EnviS
Consulting)
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DE VISION ZÉRO: CAS DU GABON**



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Director General

**THE ZERO VISION APPROACH IN THE EU
CONTEXT**



STEFAN OLSSON

European Commission (EC)
Working Condition and Social Dialogue
Director

A GLOBAL STRATEGY BROUGHT TO LIFE



STEFAN HUSSY

German Social Accident Insurance (DGUV)
Director General

**NATIONAL STRATEGY OF FINLAND
TO PROMOTE VISION ZERO**



ANTTI KOIVULA

Finnish Institute of Occupational Health (FIOH)
General Director

**THE NATIONAL STRATEGY VISION ZERO
TOWARDS A CULTURE OF PREVENTION IN
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ANNICK SUNNEN

Accident Insurance Association
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Deputy Director

NEXT GENERATION PREVENTION



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President of the Board of Directors



VISION ZERO WHITE PAPER



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INSPECTION AND OCCUPATIONAL SAFETY
AND HEALTH BRANCH

"(Vision Zero) goes beyond avoiding work -related accidents and diseases and asks for the promotion of wellbeing at work in all its physical and mental dimensions"

"In any country and any organization, private or public, vision zero is only possible through a process of involvement and collaboration of a diversity of actors in the construction of a positive culture of prevention, and in particular governments, employers, and workers."



MR. BERND TREICHEL
INTERNATIONAL SOCIAL SECURITY
ASSOCIATION (ISSA)
SENIOR TECHNICAL SPECIALIST IN
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INTERNATIONAL LABOUR
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DIRECTOR



**MR. HANS-HORST
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DIRECTOR GENERAL
MOMENTUM FOSTERING BUREAU
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TOKYO DECLARATION ON VISION ZERO FOR ALL



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MS. SKYE BUATAVA
Director, SafeWork NSW





Tokyo Declaration Full Text

The Vision Zero Summit,

Having met on the occasion of the 2nd Vision Zero Summit, which was held from 11 to 13 May 2022

in Tokyo and streamed to all regions of the world, jointly organized by

- the INSTITUTE OF GLOBAL SAFETY PROMOTION (IGSAP)
- the NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY (AIST)
- the NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH, JAPAN (JNIOSH)
- the TASK GROUP OF VISION ZERO AT THE ENTERPRISE LEVEL OF THE GLOBAL COALITION FOR SAFETY AND HEALTH AT WORK
- the INTERNATIONAL SOCIAL SECURITY ASSOCIATION (ISSA)
- the INTERNATIONAL OCCUPATIONAL HYGIENE ASSOCIATION (IOHA)
- the FINNISH INSTITUTE OF OCCUPATIONAL HEALTH (FIOH) and
- the INSTITUTION FOR OCCUPATIONAL SAFETY AND HEALTH (IOSH)

with the support of the International ORP Foundation and the participation of senior professionals,

employers' and workers' representatives, social security representatives, policymakers and administrators, as well as Vision Zero companies, partners and trainers;

Welcoming the progress achieved through international and national efforts to improve safety and health at work through digitalization, robotization, voluntary initiatives and standardization;

Noticing that collaborative safety, artificial intelligence, as well as information and communication technologies provide viable opportunities to develop and implement new prevention-technologies in all economic sectors, and in particular in sectors such as agriculture, construction, manufacturing, or mining;

Acknowledging the resilience of national occupational safety and health systems and national social security systems in times of a global pandemic, which had triggered a public health and economic crisis, with a significant impact on businesses, public administrations and workers' compensation systems;

Acknowledging the serious consequences of work-related accidents and diseases, which is estimated to lead to around 2.9 million fatalities and 90 million disability-adjusted life years (DALYs), to be attributable to exposure to range of major occupational risk factors. Additionally, there's some 402 million non-fatal occupational accidents each year (resulting in more than 4 days of absence of work).

Recalling that the protection of workers, the promotion of occupational safety and health and the prevention of accidents and diseases at work are core elements of the International Social Security Association and of the Global Coalition for Safety and Health at Work;

Recognizing that with the proper approach and the right efforts every occupational accident and disease is preventable;

Understanding that safety, health and well-being are the primary duty at the workplace of every person exercising a professional activity, including workers, managers, business leaders and the selfemployed;

Reiterating that the protection of the environment is a societal responsibility, wherein each government, company, employee and consumer has a role to play;

Acknowledging the importance of gender mainstreaming and gender impact assessments through promoting equality in prevention;

Recognizing that the ability to cope with occupational risks depends, to a very great extent, upon the training that has been provided and that therefore, young workers constitute a high-risk population, as they are often inexperienced;

Recognizing the role of governments to ensure an effective implementation of the appropriate health and safety framework, and the leadership large companies can play in their supply chain, in small and midsize enterprise (SME) and in their market sectors;

Referring to the Vision Zero White Paper, issued during the Vision Zero Summit 2022, which outlines a multi-stakeholder approach to safety, health and well-being at work;

Recalling the call for the promotion of a global prevention culture ([2008 Seoul Declaration](#) and [2011 Istanbul Declaration on Safety and Health at Work](#)) and the launch of the Vision Zero strategy during the World Congress on Safety and Health at Work (2017); and

Reaffirming that safety, health and wellbeing at work are the responsibility of society as a whole

Declares that Vision Zero

1. Is a strategy and holistic mindset for prevention, which is built on the common desire to promote and establish a global prevention culture, and aims at reducing accidents and occupational diseases, and at promoting safety, health and well-being at work;
2. Is a participatory approach to safety, health and well-being, supporting the transformative journey in enterprises to reduce occupational risks in the workplace by pledging a commitment to continuous development to safety, health and well-being;
3. Promotes safe and healthy working conditions as important aspects of Decent Work;
4. Contributes to the 2030 Sustainable Development Goals, in particular SDG 8 (Decent Work and Economic Growth), SDG 3 (Good Health and Wellbeing), SDG 4 (Quality Education) and SDG 17 (Partnerships for the Goals);
5. Supports the implementation of the instruments on safety and health at work of the International Labour Organization, such as Conventions No 155 and No 187 and of the ISSA professional Guidelines on Occupational Risks for social security institutions;
6. Supports the objective of the Global Coalition on Safety and Health at Work to generate practical strategies to common occupational safety and health opportunities and challenges;
7. Provides practical tools and solutions, such as the Vision Zero Seven Golden Rules Guide, the Proactive Leading Indicator Guide and the 5Z Culture, the Collective Action Model of the ILO Vision Zero Fund, or other tools to achieve the goal of safety, health and wellbeing at enterprise level;
8. Promotes safety, health and well-being of workers by recognizing the potential of Collaborative Safety that can be further enhanced through digital connection of people, machines and the environment;
9. Has a positive impact on working conditions, productivity and economic and social development by improving safety and health at work and in promoting the economic benefits of prevention (return on prevention);
10. Fosters education and e-learning, training and qualification, as well as consultation and the exchange of information through good practices on safety, health and wellbeing; and
11. Recognizes the important role played by governments and the social partners, professional safety and health organizations and social security institutions in promoting prevention and in providing treatment, support, and rehabilitation services;

Now therefore the Vision Zero Summit

Calls upon Governments, International Organisations, Trade Unions and Employers' Associations, Social Security Institutions, and Occupational Safety and Health Institutes to promote the principle of prevention in their legislative frameworks, in occupational safety and health regulations, guides and action plans, and to take the lead in promoting a preventative safety, health and well-being culture at work and in society, placing Vision Zero high on national agendas;

Calls upon Companies to adhere to the 7 Golden Rules, to implement Vision Zero into their OSH management systems in line with the principles provided by the [ILO Guidelines on OSH management systems](#), risk assessment strategies, and to lead by example when doing business;

Calls upon Environmental and Public Health Organisations to develop sustainable approaches to promote the workers' health & safety as part of the environmental protection policies within organizations and businesses, as to reduce the occupational safety, health, and environment (OSHE) impact of products or services.

Calls upon Schools, Universities and Vocational Training Providers to promote a culture of prevention from school to workplace by including safety, health and well-being in all curricula and in everyday school and campus life to safeguard the health and safety of students and young workers.

Call upon large, small and midsize enterprises to consider Occupational Safety and Health, like the protection of the Environment, as an investment.

Calls upon individuals, workers and employers, businesses, voluntary organizations, local authorities, and regional and national Governments to commit themselves to the principles of Vision Zero as a way of doing business, and as a guiding principle in life.

The Vision Zero Summit participants commit to report about progress towards these objectives at subsequent Vision Zero Summits.

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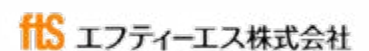
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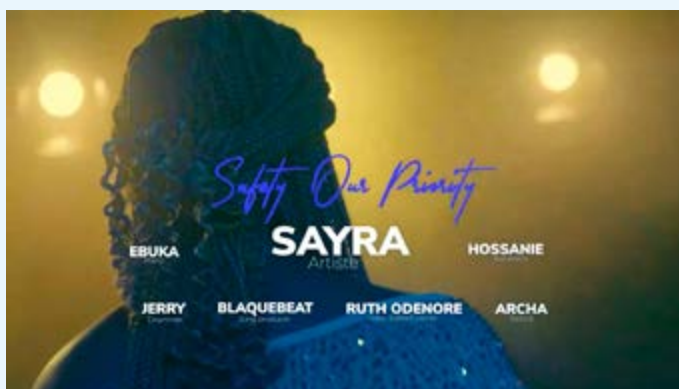
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