



The Institute of Global Safety Promotion

Safety2.0 International Safety Symposium 2018

A global standard—Power up your business with SAFETY

Vision Zero, CSR, Safety2.0: three latest approaches and application examples

Date:	10:00-17:00, Tuesday November 20, 2018
Organizer:	The Institute of Global Safety Promotion (IGSAP) Infrastructure Institute of Nikkei BP Intelligence Group
Partner:	Japan Industrial Safety and Health Association (JISHA)
Co-host:	Nikkan Kogyo Shimbun
Supporter:	Ministry of Economy, Trade and Industry (METI) National Institute of Occupational Safety and Health, Japan (JNIOSH) Japanese Standards Association (JSA) Nippon Electric Control Equipment Industries Association (NECA) Japan Robot Association (JARA)
Venue:	Kikai Shinko Kaikan building, Hall B2 3-5-8, Shibakoen, Minato-ku, Tokyo 105-0011
Number of attendees:	Approx. 200
Audience:	Corporate top executives, senior executives, senior engineers
Admission:	28,000 yen (tax included)

Symposium outline

Safety is about to undergo a dramatic change on the global scale. Vision Zero (VZ), a global campaign to prevent occupational accidents and work-related diseases was launched by the International Social Security Association (ISSA) in September 2017. It has expanded worldwide mainly in Europe and has garnered more than 2000 participants from companies and institutions from all over the world in just over a year. From the viewpoint of corporate management such as CSR (corporate social responsibility) and ESG (environment, social, governance), as well as latest technologies including IoT (Internet of Things), ICT (information communication technology), AI (artificial intelligence), and big data, the importance of ensuring safety is becoming an issue of serious concern.

In this symposium, we review the worldwide trends on safety that were revealed in the triennial safety conference SIAS 2018 (9th International Conference on Safety of Industrial Automated Systems) held in October 2018 in Nancy, France. The new safety trends will be explained in three core dimensions: philosophy, management, and technology.

Firstly, philosophy refers to Vision Zero. The Secretary General of ISSA who has travelled around the world to promote Vision Zero, talks to the Japanese audience about Vision Zero for the first time, and explains its effectiveness to prevent accidents and diseases at workplaces. Secondly we focus on safety from management perspective. CEO of Pilz GmbH & Co., KG, the global safety automation company of Germany, will talk about collaborative safety and Safety Personnel Certification System as requisites for promoting Industrie 4.0 in Germany. Thirdly, we feature on technology. Safety2.0 is the latest safety concept that achieves safety of all stakeholders effectively and efficiently through the total collaboration of human, machine, and environment utilizing their risk-related information. As the concept has entered the phase where it is applied to actual applications, representatives from Toyota Motor Corporation and Shimizu Corporation will talk about the latest safety technology and the advantageous effect.

Lastly all speakers and Japan Industrial Safety and Health Association, who plans to promote Vision Zero in Japan, will participate in a panel discussion to share ideas what is required for executives and senior engineers in the era of the new safety trend.



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Programs

10:00-10:20 Keynote Speech (20 min.)

“The future of safety at manufacturing sites”



Mr. Yoji Ueda

Deputy Director-General, Manufacturing Industries Bureau,
Ministry of Economy, Trade and Industry (METI)

Explanation of Connected Industries, the initiative of the Japanese government to fully utilize technological innovation such as AI to connect various industries, companies, people, machines, and data to create new added value, products and services and to improve productivity.

10:20-10:45 Opening address (25 min.)

“World safety trends revealed by SIAS, the largest international safety conference”



Dr. Masao Mukaidono

Chairman of the Institute of Global Safety Promotion
Professor Emeritus of Meiji University

Updates on world's safety trend from SIAS 2018 (Safety of Industrial Automated Systems) held October 10 to 12, 2018 at Nancy, France.

10:45-11:45 Special speech (60 min.)

“Vision Zero Japan launch: the essence of Vision Zero with over 1,600 participating companies from manufacturing and construction industries around the world”



Mr. Hans-Horst Konkolewsky

Secretary General, International Social Security Association (ISSA)

Vision Zero global campaign of ISSA (International Social Security Association) promotes the prevention culture for the workplaces without accidents and diseases to achieve Safety, Health, and Wellbeing. ISSA's Secretary General speaks to Japanese audiences for the first time about the essence of Vision Zero, and launches Japan campaign.

11:45-13:00 Lunch

(12:15-12:55) Mukaidono Safety Award Presentation Ceremony



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13:00-13:50 Special speech (50 min.)

“The necessity of collaborative safety concept and Safety Personnel Certification System to promote Industrie 4.0 in Germany”



Mr. Thomas Pilz

Managing Partner, CEO, Pilz GmbH & Co. KG

Updates on the correlation between Germany’s Industrie 4.0 and collaborative safety, and future prospects explained by the head of global safety automation company of Germany.

13:50-14:40 Speech I (50 min.)

“Toyota unveils top management’s active involvement in safety and their expectations towards collaborative safety ‘Safety2.0’ to utilize collaborative robots”



Mr. Haruyasu Hoshino

Project Manager, Safety & Hygiene Dept., Safety & Health Promotion Div.,
TOYOTA Motor Corporation

The head of Safety & Health Promotion Division discloses that occupational accidents have drastically decreased since the top management actively engaged in developing a solid safety culture. What’s the key to success? And what does the future hold for collaborative robots and human-machine collaborative machines, and what are challenges?

14:40-15:30 Speech II (50 min.)

“Shimizu’s commitment to Vision Zero in Singapore, Shimizu Smart Tunnel with Safety2.0, achieving both productivity and safety”



Mr. Takashi Kawata

Managing Executive Officer, Civil Engineering Technology, Shimizu Corporation

Shimizu has launched a project to develop “Shimizu Smart Tunnel,” the next generation tunnel construction system that utilizes the latest technologies such as ICT, IoT, and AI to improve productivity and ensure safety—and Safety2.0 concept has been introduced to the system.

15:30-15:45 Break



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15:45-16:55 Panel discussion (70 min.)

“World × Japan, Management × Technology—what is required for executives now to make companies stronger?”



In-depth discussion about the topics of speeches, in the form of questions and answers between the speakers and the audience. Great opportunity to exchange opinions with speakers directly.

Moderator: **Dr. Toshihiro Fujita**, Director of the Institute of Global Safety Promotion



Panelists: Dr. Masao Mukaidono
Mr. Hans-Horst Konkolewsky
Mr. Thomas Pilz
Mr. Haruyasu Hoshino
Mr. Takashi Kawata
Mr. Kenji Abe (Executive Director for Coordination, JISHA)

16:55-17:00 Closing remarks (5 min.)



Mr. Nobuyuki Yamaki
President
Japan Industrial Safety and Health Association (JISHA)

About speakers:

Mr. Yoji Ueda

Deputy Director-General, Manufacturing Industries Bureau, Ministry of Economy, Trade and Industry (METI),
Member of Public-Private Council for Safety Measures in Manufacturing Industries

Tokyo University, Master's degree in nuclear power engineering

April 1989 Ministry of International Trade and Industry (MITI)

June 1998 Standard University

June 1999 Director Assistant, Agency of Natural Resources and Energy (MITI)

December 2000 Cabinet Secretariat

June 2002 Industrial Science and Technology Policy and Environment Bureau,
Ministry of Economy, Trade and Industry (METI)

July 2005 JETRO New York

July 2008 Agency for Natural Resources and Energy (METI)

July 2014 Director, General Coordination Office, Research and Statistics Department (METI)

July 2017 Deputy Director-General, Research and Statistics Department (METI)

October 2017 Deputy Director-General, Manufacturing Industries Bureau (METI)



The Institute of Global Safety Promotion

Dr. Masao Mukaidono

Chairman of the Institute of Global Safety Promotion
Professor Emeritus of Meiji University

- 1970 Doctorate degree from Meiji University (electrical engineering)
- 1978 Professor at Meiji University (engineering)
- 1989 Professor at Meiji University (science and technology)
- 2005 Commendation by the Ministry of Economy, Trade and Industry (METI)
- 2006 Commendation by the Minister of Health, Labour and Welfare (MHLW)
- 2015 Prime Minister's Commendations on Contributors to Public Safety

Mr. Hans-Horst Konkolewsky

Secretary General of the International Social Security Association

Since elected the Secretary General of the International Social Security Association, Mr. Konkolewsky oversees a program of worldwide activities that includes major international conferences and seminars on social security issues as well as external relations with other major international organizations involved with social and economic development issues (World Bank, IMF, OECD, ILO, WHO, UN, etc.). Prior to his election as Secretary General, Mr. Konkolewsky served for 10 years as the Director of the European Agency for Safety and Health at Work. Mr. Konkolewsky, a Danish national, also held several senior positions in the Danish Ministry of Employment and served as Deputy Director General of the Danish Working Environment Authority. The Secretary General holds graduate and post-graduate degrees from the University of Aalborg, Denmark.

Mr. Thomas Pilz

Managing Partner, CEO, Pilz GmbH & Co. KG

Born in 1967 in Esslingen, Germany, Mr. Pilz studied Business Administration at the University of Passau (Dipl.-Kaufmann). From 1996 to 2005 he was Managing Director of Pilz Automation Safety L.P. in Canton, Michigan (USA), the subsidiary of Pilz in North America. Since 2005 Mr. Pilz has been Managing Partner of Pilz GmbH & Co. KG, where he is responsible for IT, Purchasing, Research and Development, Quality Management and Production. Mr. Pilz is a board member of the Electrical Automation Association and a member of the German Engineering Federation (VDMA). He is also Chairman of the Board for the Scientific Association in the Institut für Mikroelektronik Stuttgart e.V. (Institute for Microelectronics Stuttgart) and Chairman of the Advisory Board for the Deutsche Forschungsgesellschaft für Automatisierung und Mikroelektronik (DFAM) (German Research Society for Automation and Microelectronics). Furthermore, he is a member of the Board of Directors for the Technische Akademie Esslingen (TAE) (Esslingen Technical Academy).

Mr. Haruyasu Hoshino

Project Manager, Safety & Hygiene Dept., Safety & Health Promotion Div.,
TOYOTA Motor Corporation

- 1987 Graduated from Nihon University (electrical engineering)
- 1987 TOYOTA Motor Corporation, Safety of Machinery, Safety and Health Management Division
- 2012 TOYOTA Motor Europe NV/SA, Safety and Health
- 2016 TOYOTA Motor Corporation, Japan

Committee activity

- 2009- ISO/TC199 Japanese National Committee member
- 2016- Functional Safety Promotion Committee member
- 2018- OSHMS guideline review committee member



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Mr. Takashi Kawata

Managing Executive Officer, Civil Engineering Technology, Shimizu Corporation

- 1980 Joined Shimizu Corporation, Civil Engineering Headquarters
- 1990 Chief and director, 2.5 km Satomi tunnel construction for Hokuriku Shinikansen
- 1996 Deputy Chief, 13.0 km Musi Hydroelectric Power Plant Project (Indonesia)
- 2006 Deputy General Manager, Civil Engineering Headquarters
- 2011 Chief Manager, 46.3 km Pahang-Selangor Raw Water Transfer Project (Malaysia)
- 2014 General Manager, Civil Engineering Technology
- 2015 Managing Executive Officer, Civil Engineering Technology

Dr. Toshihiro Fujita

Director of the Institute of Global Safety Promotion

Dr. Fujita received his B.S. in 1977, M.S. in 1980, and Ph.D. in 1988 in applied physics from Osaka University. He joined the Central Research Laboratory, Matsushita Electric Industrial Co. Ltd. (Panasonic) in 1980, and he was a visiting fellow from 1986 to 1987 at Cornell University, NY, USA. Dr. Fujita joined IDEC in 1992 and has led the R&D as Chief Technology Officer over many years. He has served as Chairman of Control Safety Committee of NECA (the association of manufacturers of industrial control components) since 1999 and Vice Chairman of NECA from 2011 to 2017. Member of the Technical Committee on Industrial Machinery, Japan Industrial Standards Commission (JISC) since 2011 and also of the External Evaluation Committee of Japan Organization of Occupational Health and Safety (JNIOOSH) since 2005. Dr. Fujita has served as Director of Japan Robot Association (JARA) since 2010 and as Director of the Institute of Global Safety Promotion (IGSAP) founded in July, 2016. He received the METI Minister's awards of the FY2013 industrial standardization awards. Dr. Fujita is a member of IEEE, ISA, the Human Interface Society Japan, and a scientific committee member of the international conference on the Safety of Industrial Automated Systems (SIAS).

Mr. Kenji Abe

Executive Director for Coordination, Japan Industrial Safety and Health Association (JISHA)
Psychological consultant, industrial counselor

- 1997 Graduated from Chuo University (faculty of law)
- 1997 Joined Japan Industrial Safety and Health Association
- 2007 Deputy Director, Osaka Occupational Safety and Health Center
- 2012 Director, Health and Comfortableness Promotion Dept.
- 2014 Director, Publication Dept.
- 2016 Executive Director (Director, Publication Dept.)
- 2018 Executive Director

External positions

- 2013 Research fellow, Graduate School of Life Science and Systems Engineering
Kyushu Institute of Technology
- 2014 Executive Director, Japan Building Maintenance Association

Mr. Nobuyuki Yamaki

President, Japan Industrial Safety and Health Association (JISHA)

Graduated from Tokyo University (faculty of agriculture), Mr. Yamaki joined Nippon Mining Co. (now JX Holdings, Inc.) in 1975. In 2001 he became Executive Officer at Nippon Mining & Metals Co., Ltd. (now JX Nippon Mining & Metals Corporation). After serving as Director and Executive Director, Mr. Yamaki became Vice President. During his career at Nippon Mining he oversaw general affairs, human resources, public relations, secretary department, CSR promotion, and environment & safety. In July 2016 Mr. Yamaki became President of Japan Industrial Safety and Health Association.