



27 November: Pre-conference Workshop for Early Career Professionals

Welcome Reception

Venue: 1st floor (South side), Exhibition Hall C

Day 1- 28 November (Tue) Venue : Room 1

8.00 - 8.15	Conference Opening by Jun Mutoh – President, Chief Executive Director, Kashima Oil Co. Ltd. & President- JSSE, Japan
8.15 - 8.30	Opening Address by Shakeel Kadri – Executive Director & CEO- Center for Chemical Process Safety (CCPS), USA
8.30 - 9.00	Invited Lecture by Hideki Matsuo – Chairman, Japan Industrial Safety Competency Center
9.00 - 9.30	Keynote by Scott Meikle – Vice President, Global Technical Organization, Ecolab, USA
9.30 - 10.00	Keynote by Professor Hiroshi Ishimaru – Professor, Osaka University, Japan
10.00 - 10.30	Coffee Break & Networking; Poster Session
10.30 - 12.00	<p>Leadership Panel Discussion:</p> <p>Topic: The role of leadership to address challenges in creating effective Process Safety</p> <p>Moderators: Shakeel Kadri – Executive Director & CEO, CCPS and Jun Mutoh – President, Chief Executive Director, Kashima Oil Co. Ltd. & President- JSSE, Japan</p> <p>Panel:</p> <ul style="list-style-type: none"> • Yusop Sahari, Group HSE, Head, PETRONAS, Malaysia • Marco Stam, Global Business Process Owner, Teijin Aramid BV, Netherlands • Ahmed Shaheen Al-Khaldi, General Manager, Sipchem, Saudi Arabia • Hiroshi Nakatsui, Managing Executive Corporate ESH, ASAHI KASEI Corporation, Japan • Yukinobu Takaishi, General Manager, Environment, Safety & Quality Control dept., Taiyo Oil Co., Ltd., Japan • Kazuhiko Kato, General Manager, Safety & Environment Technology Division, Production & Technology Center, Mitsui Chemicals, Inc. Japan
12.00 - 13.00	Lunch



Day 1- 28 November (Tue) Venue: Special Conference Room

13.30 - 16.30

Leaders Forum on Process Safety

Theme: Process Safety at Senior Leadership Level – “How I drive Process Safety in my organization”

Moderator: Shakeel Kadri – Executive Director & CEO, CCPS

Participating Leaders:

1. Ng Chee Wai – General Manager (Plant), PCS Pte. Ltd; Singapore
2. Scott Meikle – Vice President- Global Technical Organization, Ecolab Inc; USA
3. Syawaludin Azwar – Director of Operations, PT Polytama Propindo; Indonesia
4. David Moore – President & CEO, AcuTech Consulting; USA
5. Ramabhadran Srinivasan – Vice President, Global Technical Organization, dss+; Singapore
6. Yusop Sahari, Group HSE Head, PETRONAS, Malaysia
7. Jun Mutoh – President, Chief Executive Director, Kashima Oil Co. Ltd; Japan
8. Junzo Yamamoto – Senior Executive Officer, Manufacturing & Technology, Idemitsu Kosan Co. Ltd; Japan
9. Keiji Kinoshita – General Manager, Risk Management Dept, Cosmo Oil Co. Ltd; Japan
10. Yasuji Inoue – Senior Manager, Environment and Safety Department, Mitsubishi Chemical Corporation; Japan
11. Kozo Mitani – Environmental & Safety Affairs Department, Production Center, Zeon Corporation; Japan
12. Tetsuya Konno – General Manager Safety, Health & Environment Dept, ENEOS Corporation; Japan
13. Prof. Jong-bae Baek – President, Korean Society of Safety (KOSOS); South Korea
14. Prof. Seungho Jung – Ajou University; South Korea
15. Eisaburo Miyata – Chief Specialist, Sumitomo Chemical Co. Ltd; Japan
16. Masahiro Masuzawa – Consulting Director, ERM Japan, Yusop Sahari, Group HSE Head, PETRONAS, Malaysia



Technical Program

Parallel Technical Sessions Day 1:

(20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)

	Technical Session 1 Venue: Middle Hall	Technical Session 2 Venue: Room No. 408 & 409	Technical Session 3 Venue: Room No. 407
13.00 - 15.00	Big Data and Data Analytics in Process Safety-1 Session Chair: Yuto Mizuta, Mitsubishi Chemical Corporation Session Co-Chair: Bernard Leong, PCS Pte Ltd.	Committed Culture & Process Safety Leadership-1 Session Chair: Malcolm Pu, Wanhua Chemical Session Co-Chair: Mojgan Vafaei; Ecolab	Disasters and Emergency Responses Session Chair: Palaniappan Chidambaram, dss+ Session Co-Chair: Hiroiku Kawai, ENEOS Corporation
13.00 - 13.20 Q&A: 13.20 - 13.30	Our DIGITAL TWIN Journey has begun: (J-15) Kiyohide Yoshii, Cosmo oil, Japan	Application of Safety Culture Survey in Japanese Industries: (J-36) Akira TOSE, Niigata University, Japan	Comparison of stairs and ladders use in evacuation from oil and gas plants: (J-7) Tomohiro Ogami, Yoshinori Hiroya; JGC Corporation, Japan Prof. Katsuhiko Nishinari, The Tokyo University
13.30 - 13.50 Q&A: 13.50 - 14.00	Digital Breakthrough in Process Safety Near Misses Management : (25) Mariam Abdul Rahim; PrefChem; Malaysia	Risk Containment As a Vehicle of Change in Process Safety Culture Transformation: A Case Study in Polypropylene Producer : (81) Wifandy Raymond Tobias Purba Sidadolog , Bunyamin Komar, Lintang Adi Pradana Polytama Propindo & dds+, Indonesia	The NATECH Safety Management Framework and the efforts of Japan Society for Safety Engineering (JSSE) to establish it.: (J-8) Yusuke Wada- SUMITOMO CHEMICAL Co., Ltd. & Yoshiki Kinehara- Mitsubishi Research Institute, Inc., Japan Hiroshi ISHIMARU- Osaka University
14.00 - 14.20 Q&A: 14.20 - 14.30	How e-Permit to Work System Improve the Safety Culture and Operation Discipline Which Enhance the Plant Safety System Effectiveness: (17) Talay Petcharat; SCG Chemicals, Thailand	“World Class Process Safety By Mixed Reality”: (15) Kunthira Kheanprasit, HMC Polymers, Thailand	Study of emergency countermeasures for abnormal polymerization of monomer tank : (J-18) Makoto Nitta- Mitsubishi Chemical Corporation Kei Matsuzaki- JGC Corporation



Parallel Technical Sessions (continues): Day 1

(20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)

14.30 - 14.50 Q&A: 14.50 - 15.00	<p>Using Machine Learning and Survival Analysis for Maintenance of Aboveground Gas Risers in Domestic High-Rise Buildings: (26)</p> <p>Pasindu Samaranayake, ERM Hong Kong Limited</p>	<p>Visualization of Risk Points about Contact Accident with Cranes and Calculation of Optimal Number of Workpieces at Manufacturing Sites using Behavioral Analysis Approach (J-24)</p> <p>Prof Hojo Rieko; The Nagaoka University of Technology, Japan</p>	<p>Advanced Method for Disaster Severity Assessment through Semi-Quantitative Risk Analysis for Emergency Response Plan : (128)</p> <p>Kei Matsuzaki & Masayuki JGC Corporation Tanabe- JGC Corporation, Japan</p>
15.00-15.30	Coffee Break & Networking		
	Technical Session 4: Venue - Middle Hall	Technical Session 5: Venue - 408 & 409	Technical Session 6: Venue - 407
15.30 - 17.30	<p>Applying Artificial Intelligence (AI) to Process Safety</p> <p>Session Chair: Shinichirou Gotou, Mitsui Chemicals, Inc</p> <p>Session Co-Chair: Fatima Fertilizer Company</p>	<p>Committed Culture & Process Safety Leadership-2</p> <p>Session Chair: Ohtani Tomoya, ENEOS Corporation</p> <p>Palaniappan Chidambaram, dss+</p> <p>Session Co-Chair: Kazuya Kawakami, Idemitsu Kosan Co., Ltd</p>	<p>Intentional Competency Development-1</p> <p>Session Chair: Dr. Tekin Kunt, PSRG Inc.</p> <p>Session Co-Chair: Benjamin Tan, PCS Pte. Ltd.</p>
15.30 - 15.50 Q&A: 15.50 - 16.00	<p>Smart Industrial Safety Initiatives at Sumitomo Chemical (J-13)</p> <p>Yoshikazu Sako; Sumitomo Chemical Co., Ltd., Japan</p>	<p>Gas Transmission & Regasification's Journey to Generative Culture through Process Safety Care Conversation and Other Process Safety Culture Programs: (99)</p> <p>Gary Lee Shaw Yong, PETRONAS Gas Berhad</p>	<p>Human resource development for risk management: (J-10)</p> <p>HIROKI NAKABAYASHI; Cosmo Oil Co., Ltd, Japan</p>



Technical Program

Parallel Technical Sessions (continues): Day 1

(20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)

16.00 - 16.20 Q&A: 16.20 - 16.30	Efforts to Stabilize Process Variables and Anomaly detection through using AI (J-11) Shohei Imaoka; Taiyo Oil Co., Ltd. Shikoku Office, Japan	Establishment of a quantitative evaluation method for worker well-being at work: (J-26) Rieko Hojo, Keiju Anada, Yuka Koremura, Shoken Shimizu; Nagaoka University of Technology; Japan	Ecolab Process Safety Qualification Process: (32) Nathan Thompson, Ecolab, USA
16.30 - 16.50 Q&A: 16.50 - 17.00	The Strategy for Implementing Artificial Intelligence in the Process Safety Studies (12) B.Ambalavanan; Kuwait Oil Company, Kuwait. KS.Haarish Dharan; LT Partners USA.	Enhancing Risk Management and Accountability through Barrier Ownership Program: A Framework of Operational Strategies and Culture Shift: (02) Ir. Mohammad Sofi Nurdin, M Ridzhuan Jinal Petronas, Malaysia	Audience targeted competency program for Process Safety Knowledge & Application at Cargill: (94) Naim Muhammad; Cargill, Malaysia
17.00 - 17.20 Q&A: 17.20 - 17.30	Estimation of Flammable Range of Gasses and Vapors Using Neural Network (J-25) Hiroshi Yamanaka, Katsufumi Yasui; Mitsui Chemicals, Inc. Yu-ichiro Izato, Atsumi Miyake; Yokohama National University	Learning from Nantong Hydrogen Loading Jet Fire incident Bin Liu, Cargill, China	Enhanced Sustainability Requirements in Financial Reporting and Their Impact on Process Safety Professionals: (82) Srinivasan Ramabhadran; Palaniappan Chidambaram; dss+, Singapore
17.30	Venue • Location: Himeji Castle, Garden of Museum		



Technical Program

Day 2- 29 November (Wed) Venue: Room 1

8.00 - 08.20	Recap of Day-1 by Co-Chairs of Technical Committee of 7th GSPS Dr. Anil Gokhale, Chief Operating Officer (COO), Center for Chemical Process Safety (CCPS) Dr. Ritsu Dobashi, Professor, The University of Tokyo
8.20 - 9.00	Presenting Summary of Leadership Forum held on Day-1 (Call for Action)
9.00 - 9.30	Keynote by Dr. Kenichi Uno, Japan Industrial Safety Competency Center (Former Managing Director of Mitsubishi Chemical Corporation) (Former Advisory Board Member of CCPS)
9.30 - 10.00	Keynote by Ahmed Shaheen Al-Khaldi, General Manager, EHSS & Responsible Care; Sipchem, Saudi Arabia
10.00 - 10.30	Coffee Break & Networking
10.30 - 12.00	Topic: Building a Safe Future: Harnessing Digital Solutions and Analytics for Process Plant Safety Moderators: Dr. Pratap Nair, President & CEO, Ingenero Inc. Panel Members: <ul style="list-style-type: none"> • Dr. Toru Nakata, National Institute of Advanced Industrial Science and Technology, Artificial Intelligence Research Center, Japan • Aiyor Syahril Kamarudin, Head of Process Safety Management, PETRONAS, Malaysia. • Keiichiro Kobuchi, Executive Officer / General Manager, Yokogawa Digital Corporation, DX Services Division, Japan • Mojgan Vafaei, Global Engineering Manager - Sustainability and Process Safety, Ecolab • Dr. Kazuya Furuichi, General Manager- AI Engineering Department, Frontier Business Division, Chiyoda Corporation
12.00 - 13.00	Lunch

Parallel Technical Sessions: Day 2

(20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)

	Session 7: Venue: Middle Hall :	Session 8: Venue: Room 408 & 409	Session 9: Venue: Room 407	Session 10: Venue: Room 404
13.00 - 15.00	Asset Integrity Management & Aging Facilities Session Chair: Bernard Leong, PCS Pte. Ltd Session Co-Chair: Anup Kumar, Tata Steel Ltd	Vibrant Management Systems Session Chair: Yasuhiro Sugano , Mitsui Chemicals, Inc. Shinichirou Gotou Session Co-Chair: Palaniappan Chidambaram, dss+	Committed Culture & Process Safety Leadership-3 Session Chair: Hisashi Shibuya, ENEOS Corporation Session Co-Chair: Nathan Thompson, Ecolab Inc.	Advanced Safe Technologies in Process Safety Session Chair: William Giang, PSRG Inc Session Co-Chair: Hiroki Nakabayashi, Cosmo-oil Co. Ltd.
13.00 - 13.20 Q&A: 13.20 - 13.30	Improving Reliability by Introducing Asset Policies for Risk-Based Inspection: (J-5) Hiroki Ishikawa; Idemitsu Kosan Co.,Ltd, Japan	Vulnerability Index (VI) -- a New Innovative Tool for Job Risk Management: (08) Nitin Warkhedkar, HPCL, India	How to Measure Process Safety Culture. Key Indicators of Successful Evolution Case: (59) Martin Fernandez, Whycomm, Argentina	Rigorous Dynamic Simulations for Effectiveness Assessment of Independent Protection Layers in Chemical Processes: (52) Meng Qi; China University of Petroleum (East China)



Parallel Technical Sessions (Continues): Day 2

(20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)

<p>13.30 - 13.50 Q&A: 13.50 - 14.00</p>	<p>Asset Integrity and Reliability Implementation Challenges and Failure Factors in Developing Countries: (42) Hany Tawfek; Ethydc, Egypt</p>	<p>Strategic Implementation of Risk-Based Process Safety Management System: (J-1) Dr. Masayuki Tanabe, Professor Atsumi Miyake Strategic PSM Initiative Group, Yokohama National University, Japan</p>	<p>Operational Discipline for High-Performance Process Safety: (100) David Moore, President & CEO, AcuTech Consulting Group, USA</p>	<p>Effects of small space structure with fillers or small tubes on gas explosion characteristics (J-22) Keito Ichinose, Tatsuzo Kawano, Yuto Mizuta, Motohiko Sumino (Mitsubishi Chemical Corporation)</p>
<p>14.00 - 14.20 Q&A: 14.20 - 14.30</p>	<p>APP Application on Digital Devices to Improve Asset Integrity : (87) William Zhou; Ecolab, China</p>	<p>A practical approach to run Process Safety Management System vibrantly: (J-4) Masaki Iguchi, ENEOS Corporation, Japan</p>	<p>Experience with CCPS Risk-Based Process Safety Implementation in European and Japanese Cultures (102) Marco Stam, Global Business Process Owner, Teijin Aramid & David Moore, President & CEO, AcuTech Consulting Group</p>	<p>Hydrogen Injection in Blast Furnace to Reduce Co₂ Footprint (64) Naveen Kumar, Tata Steel Ltd, India</p>
<p>14.30 - 14.50 Q&A: 14.50 - 15.00</p>	<p>Proposal for Aging Infrastructure Countermeasures Using High-Sensitivity Semiconductor Sensors and New Safety Management Approaches: (J-23) Natsumi Abe; New Cosmos Electric Co., Ltd., Sensor Development 1, Research and Development Division, Japan</p>	<p>The Human Factor in Safety-Critical Control Systems: (24) Saleh Alshammari, Saudi Aramco, Saudi Arabia</p>		<p>Electrostatic discharges in pilot-scale metal silo during loading of powders (J-32) Mizuki Shoyama, Kwangseok choi, National Institute of Occupational Safety and Health, Japan Yuki Osada, Kasuga Denki, Inc., Japan Osada, Teruo Suzuki</p>
<p>15.00 - 15.30</p>	<p>Coffee Break & Networking</p>			



Parallel Technical Sessions (Continues): Day 2

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<p>15.30 - 17.30</p>	<p>Session 11: Big Data and Data Analytics in Process Safety-2 Session Chair: Eisaburo Miyata, Sumitomo Chemical Co. Ltd. Session Co-Chair: David Moore, AcuTech Consulting Group</p>	<p>Session 12: Enhanced application of Lessons Learned Session Chair: Palaniappan Chidambaram, dss+ Session Co-Chair: Keito Ichinose; Mitsubishi Chemical</p>	<p>Session 13: Intentional Competency Development-2 Session Chair: Nathan Thompson, Ecolab Session Co-Chair: Malcolm Pu, Wanhua Group</p>	<p>Session 14: Multifaceted Session– Disasters and Emergency Response + Asset Integrity Management & Aging Facilities Session Chair: Professor Kazunori KuwanaHisashi Shibuya, Tokyo University of Science Session Co-Chair: Takuji Soga, Taiyo Oil Co., Ltd</p>
<p>15.30 - 15.50 Q&A: 15.50 - 16.00</p>	<p>Effectiveness of Using Digital PSSR Checklist in Petrochemical Industry: (30) Joompote Ketkeaw; SCG Chemicals, Thailand</p>	<p>Incident impact estimation of a liquefied petroleum gas tank using CCPS assessment tools CHEF/RAST: (J-17) Yasuo Nomura, ENEOS NUC Corporation, Japan</p>	<p>Knowledge Retention for Continuous Workforce Competency- A Case Study: (93) Benjamin Tan, PCS Pte. Ltd, Singapore</p>	<p>Performance Monitoring of Rotating Machinery, Electrical, and Instrumentation Equipment for Achieving Condition-Based Maintenance (CBM): (J-28) Kotaro Morikawa; Idemitsu Kosan Co.,Ltd., Japan</p>
<p>16.00 - 16.20 Q&A: 16.20 - 16.30</p>	<p>Enhancing Safety in the Process Industry- Leveraging Data Analytics, Machine Learning, and Knowledge Management: (85) Mayuresh Mokal, Ingenero Inc, India</p>	<p>Learning from Failures to Mitigate Risk of Disaster in Iron & Steel Manufacturing R&D through Process Safety Management: (40) Anup Kumar, Tata Steel Ltd, India</p>	<p>Competency Development through Process Safety Knowledge Management (6) Dr. Tekin Kunt, PSRG Inc., USA, Avanna Tan, PSRG Asia Pacific Pte Ltd.</p>	<p>Benefits of Planning for Black Swan Events: (101) Chan Keng Yong, Manager & Principal, AcuTech Consulting Pte. Ltd. (Singapore), USA</p>



Parallel Technical Sessions (Continues): Day 2

(20 minutes presentation by each speaker followed by 10 minutes of Q&A session for each presentation)

<p>16.30 - 16.50 Q&A: 16.50 - 17.00</p>	<p>Barrier Management and Safe Work Control (BMSWC) - an Insightful Tool to Improve Risk-Based Plant Operational Decisions: (35) Najah Mohd Jamal, Malaysian Refining Company Sdn Bhd, Malaysia</p>	<p>Prevention of Breakouts in Slab Caster at Tata Steel Kalinganagar: (58) Manjunathan M, Tata Steel Ltd, India</p>	<p>Utilizing Videos for Technical Heritage and Work Procedures: (J-09) Kazuhiro Koyama & Yasuhiro Kawakata; Maruzen Petrochemical Co. Ltd. Japan</p>	<p>Elevating Process Safety in Steel Plants: A Comprehensive Case Study on Mitigating Unconfined Vapor Cloud Explosions (UVCEs) in Coke Oven Gas Pipelines: (88) Abhinav Sharma, Viralkumar Gheewala, JSW Steel</p>
<p>17.00 - 17.20 Q&A: 17.20 - 17.30</p>		<p>Essential Practices for Sustaining Integrity of Safety Instrumented Systems throughout Facility Lifecycle (22) Efiok Ekanem, Saudi Aramco, Saudi Arabia</p>	<p>Loss Prevention Eyes on the Field (56) Naif Aldakhayel, Saudi Aramco, Saudi Arabia</p>	<p>A Comparative Study: Various Modeling (Empirical, Integral, 3D CFD) Approach for Accurate Consequence Analysis and Risk Management of Accidental Release of Ammonia (90) Govind Patil, Sastry Mangipudi; Gexcon India & Middle East</p>
<p>17.30 - 17.40</p>	<p>Closing ceremony [CCPS+JSSE]</p>			



Abstract Number	Abstract ID	Abstract Title	Author Name	Company	Country
103	Japan-12	Issues encountered during the handling of fine powdered coal and study on its thermal risk	Yeongsoo Choi, Kouya Murai	Mitsubishi Chemical Corporation	Japan
110	Japan-19	Efforts to prevent process accidents caused by oxidative exotherm of resins	Kouya Murai, Manabu Okuyama, Takashi Odagiri, Motohiko Sumino	Mitsubishi Chemical Corporation	Japan
18	673842	Predictive Dynamic Risk Register	Bao Lin Tan	PETRONAS	Malaysia
37	675192	Enhancing Warehouse Safety: Implementing the Chemical Reactivity Matrix in PETRONAS Kertih Refinery, Inspired by Major Process Safety Incidents.	Muhammad Huzaimi Tahir	PETRONAS Penapisan (Terengganu) Sdn. Bhd.	Malaysia
1	660861	Upstream Process Safety Golden Rules (PSGR) and Process Safety Essentials (PSE) Operationalization Program: Developing Competency and Promoting Process Safety Culture	Ir. Mohammad Sofi Nurdin	PETRONAS	Malaysia
112	Japan-21	Computational Fluid Dynamics Study of the Factors of Inner Surface Thinning of a Nozzle Connected to a Volute Pump	Shin-ya Suzuki, Kenta Natsuhara, Masataka Morinaga	Cosmo Oil Co., Ltd.	Japan
34	675138	Importance of Emergency and Crisis Management in Achieving the Strategic Objectives	Nurken Sabyrgaliyev	Saudi Aramco	Saudi Arabia
46	675312	Standardize Design of Internal Floating Roof Tank to Improve Process Safety in Refining & Petrochemical Subholding	Ragaguci Ragaguci	PERTAMINA Refinery Balikpapan	Indonesia
118	Japan-27	Enhancing Asset Integrity Management by adopting HIRA information using Hazard Register, Fault Schedule.	Kauzyuki Namba, Masayuki Tanabe	JGC Corporation	Japan
122	Japan-31	Study on establishment of a quantitative measurement method for workplace-specific well-being in Japanese Vietnamese companies	Mami Katsumi, Nguyen Huong Que, Le Ngoc Thuy Lin	Nagaoka University of Technology- Center for International Industry -Academia Collaboration, Sorimachi Viet Nam	Japan
66	675696	Competency Development in the Area of Process Safety Management to Make World Class Steel Industry Experts	Naveen Kumar	Tata Steel Limited India	



Poster Presentations

Abstract Number	Abstract ID	Abstract Title	Author Name	Company	Country
126	Japan-35	Proposal of Quantitative Evaluation Method for Dangerous and Safe Errors ?Demonstration Experiment Using Tablets by Graduate Students in Japan	Kazan Omata, Rieko Hojo, Yuka Koremura, Shoken Shimizu	Nihon University, Computer Science, Nagaoka University of Technology, Koremura Giken, Ballast dept., Japan GOP Co. Ltd., -Safety and ANSHIN Technical Research Center (SATEC)	Japan
129	Japan-38	Study on the Quantitative Evaluation of Well-being among University Students in Japan and Overseas	Mami KATSUMI, Xuan Long Nguyen, Toru SASAKI, Rieko HOJO	The Nagaoka University of Technology; Ho Chi Minh City University of Technology,	Japan
120	Japan-29	A study of the workers safety behaviour on portable work platforms.	Shoken Shimizu, Rieko Hojo, Yuka Koremura	GOP co. Ltd.- Safety and ANSHIN Technical Research Center (SATEC), Nagaoka University of Technology, System Safety dept KOREMURA GIKEN. Co., Ltd, Ballast Department,	Japan
121	Japan-30	Measuring repetitive worker's answering behaviors of well-being at work	Yuka Koremura, Rieko Hojo, Christoph Boerdlein, Kohei Nomura	KOREMURA GIKEN. Co.,Ltd- Ballast Dept. / Safety and ANSHIN Technical Research Center SATEC)	Japan
124	Japan-33	Activities to develop "Safety Engineers" at Mitsubishi Chemical Corporation Hiroshima Plant	Atsuko Nakai, Akio Muneto	Mitsubishi Chemical Corporation	Japan
130	Japan-39	Quantitative risk assessment of diversified hydrogen refueling stations with a case study of hydrogen refueling stations with filling facilities	Tomoya Suzuki, Jo Nakayama , Yu-ichiro IzatoAtsumi Miyake	Yokohama National University	Japan
73	Japan-6	The activity of incident investigation in Idemitsu Kosan Co., Ltd. Hokkaido Refinery	Keita Iida	Idemitsu Kosan Co., Ltd., Japan	Japan
125	Japan-34	Effort of Mitsui chemicals Advanced Risk Assessment	Shinichiro Goto, Yasuhiro Sugano	Mitsui Chemicals Inc.	Japan