

International Technical Safety Forum (ITSF) 2024

MONDAY, 10 JUNE

10:30 → 13:00 **Reception**

13:00 → 13:20 **Opening, Welcome**

Convener: Kanenobu Tanaka (RIKEN)

□ Room 201 (Large Conf. Room)

13:20 → 14:20 **[O-1] Lessons Learned from Incidents**

Convener: Yves Loertscher (CERN)

□ Room 201 (Large Conf. Room)

13:20 **Experience in the fire at the cyclotron facility and its living lesson in QST** □ 20m

Speaker: Atsushi Kitagawa (National Institutes for Quantum Science and Technology)

13:40 **ePAS - managing subjectivity in hazard assessment and control** □ 20m

Speaker: Bill Rainey (Thomas Jefferson National Accelerator Facility)

14:00 **Learning from incidents; formal and informal methods** □ 20m

Speaker: Morteza Mansouri (European Spallation Source ERIC)

14:40 → 16:00 **[O-2] Safety Management at User Facility and Joint Construction Project**

Convener: Tetsuro Ishii (J-PARC Center)

□ Room 201 (Large Conf. Room)

14:40 **Use of Safe Operating Envelopes on Synchrotron Beamlines** □ 20m

Speaker: Guy Thomas (Diamond Light Source)

15:00 **Implementing Experimental Safety at MAX IV** □ 20m

Speaker: Marcin Bielawski (MAX IV)

15:20 **Health and safety challenges in the joint implementation by Japan and EU for the validation of Linear IFMIF Prototype Accelerator (LIPAc) at Rokkasho** □ 20m

Speaker: Keitaro Kondo (QST) and IFMIF/EVEDA Integrated Project Team

15:40 **Electron Ion Collider - integrating ES&H requirements across multiple laboratories and partners** □ 20m

Speaker: Bill Rainey (Thomas Jefferson National Accelerator Facility)

16:10 → 17:10 **[I-1] Invited talk (1)**

Convener: Kanenobu Tanaka (RIKEN)

□ Room 201 (Large Conf. Room)

16:10 **Safety management of the Deep-sea Scientific Drilling Vessel "CHIKYU" and the Manned Research Submersible "SHINKAI 6500"** □ 1h

Speaker: Nobuhisa Eguchi (Japan Agency for Marine-Earth Science and Technology: JAMSTEC)

17:10 → 17:30 **Group photo** | 20m

TUESDAY, 11 JUNE

- 09:00** → 09:20 **Introduction of RIKEN RIBF** Room 201 (Large Conf. Room)
Convener: Hiroyoshi Sakurai (RIKEN)
- 09:20** → 10:20 **[O-3] Safety Culture** Room 201 (Large Conf. Room)
Convener: Helen Boyer (European Spallation Source ERIC)
- 09:20 **Leader Standard Work – Practical actions and behaviours to support a safety culture** 20m
Speaker: Tim West (Canadian Light Source)
- 09:40 **Leveraging Safety Culture** 20m
Speaker: Julie Biringer (CERN)
- 10:00 **Safety and Health Week Festival in KEK** 20m
Speaker: Toshihiro Mimashi (KEK)
- 10:40** → 11:40 **[I-2] Invited talk (2)** Room 201 (Large Conf. Room)
Convener: Kotaro Bessho (J-PARC)
- 10:40 **Well-being assessment and Behavioral Analysis applied to risk reduction measure at work** 1h
Speaker: Rieko Hojo (Nagaoka University of Technology)
- 11:40** → 12:50 **Lunch Break** 1h 10m
- 12:50** → 14:10 **[PS-1] Poster Session 1** Communication Longe
- [P-01] Minor accidents occurred at the Isotope Science Center, the University of Tokyo from FY2020 to FY2023** 1h 20m
Speaker: Shogo Higaki (The University of Tokyo)
- [P-02] Accidents at NanoTerasu before user operation** 1h 20m
Speaker: Hiroki Matsuda, Masayuki Hagiwara, Akihiro Takeuchi, Hisao Ueda, Shuhei Kanazawa, Ken KATSUBE, Hiroyuki Konishi (QST), Toshiro Itoga (JASRI)
- [P-03] Some practices of "KY Training": Training for Risk Anticipation in a Pre-Work Briefing at J-PARC** 1h 20m
Speaker: Masumi Suzuki, Yoshimi Kasugai, Norio Tani, Fumihiro Saito, Masakatsu Sugawara, Takeshi Tanaka (J-PARC Center)
- [P-04] Educational program initiatives in university liberal arts courses aimed at disseminating accurate radiation knowledge to the general public** 1h 20m
Speaker: Masahiro Hirota (Shinshu university), Makoto Kita (Tottori university), Takuya Saze (National Institute for Fusion Science)
- [P-05] Introduction of New Safety Scheme for Hazard Information Sharing at KEK** 1h 20m
Speaker: Masami Tashima, Masafumi Taira, Keizo Furukawa, Ichiro Adachi (KEK)
- [P-06] Good Practices for Safety and Health at KEK Tokai Campus** 1h 20m
Speaker: Keiko Haraguchi, Noriko Sekido, Satoshi Uchida, Kotaro Bessho (KEK Tokai Campus)
- [P-07] A Fall Prevention Device for Transmission Tower** 1h 20m
Speaker: Jeong-Mu Hur, Yeong-Seon Kim, Young-Ho Choi, Nam-Suk Jung (Pohang Accelerator Laboratory / POSTECH)
- [P-08] User equipment safety examinations at the MLF J-PARC** 1h 20m
Speaker: Yoshifumi Sakaguchi (CROSS)
- [P-09] ELEctrical Non-Conformities SOLutions Project (ELECNC SOL)** 1h 20m
Speaker: Jose GASCON, Christophe DELAMARRE, Olivier TISON (CERN)

[P-10] Technical Galleries Consolidation - Safety Aspects 1h 20m

Speaker: Iga Maria Krautzstrung, S. Evrard, O. Prouteau, Mathieu Lemetayer (CERN)

[P-11] Health and safety management overview in the validation of Linear IFMIF Prototype Accelerator (LIPAc) at Rokkasho 1h 20m

Speaker: Keitaro Kondo (QST) and IFMIF/EVEDA Integrated Project Team

[P-12] Chemical safety management for electropolishing work of Nb cavities at KEK 1h 20m

Speaker: Takeyoshi Goto (KEK)

[P-13] Discovery and measures of asbestos in a cable pit of an accelerator building 1h 20m

Speaker: Kanenobu Tanaka (RIKEN)

[P-14] Introduction of Environmental Safety Office at KEK 1h 20m

Speaker: Hideaki Takechi, Mitsuru Sato, Masaki Ishida, Aya Komiya, Masafumi Taira (KEK)

[P-15] Chemical analysis for supporting accelerator operation in KEK 1h 20m

Speaker: Masaki Ishida, Mitsuru Sato, Aya Komiya, Masafumi Taira, Hideaki Takechi (KEK)

[P-16] Combustibility of epoxy resin for warm magnet coils used at CERN 1h 20m

Speaker: Brecht Debrouwere (CERN)

[P-17] Compressed Air Foam System (CAFS) test: a collaborative evaluation by CERN Fire and Rescue Service and HSE-OHS 1h 20m

Speaker: Brecht Debrouwere (CERN)

[P-18] Emergency Drill Efforts in the National Institutes for Quantum Science and Technology in Chiba District 1h 20m

Speaker: Koichi Nishikawa (National Institutes for Quantum Science and Technology)

[P-19] Emergency Drill Efforts in the National Institutes for Quantum Science and Technology in Chiba District 1h 20m

Speaker: Kyung-Min Kim, Yeong-Seon Kim, Young-Ho Choi, Nam-Suk Jung (Pohang Accelerator Laboratory / POSTECH)

[P-20] Fire safety improvement in GANIL facilities 1h 20m

Speaker: M. Nerdeux, F-X. Carel, J. Livin (GANIL)

[P-21] False Floors Inventory for the Prioritization of Consolidation Interventions 1h 20m

Speaker: Z. Nader, R. Morton, M. Andreini, S. La Mendola (CERN)

[P-22] Computation Fluid Dynamics (CFD) assessment of the environmental dispersion of particles from CERN facilities 1h 20m

Speaker: Joan Rico-Orero^{1,2}, Oriol Rios², Saverio La Mendola², Alessio Ricci³, Bert Blocken^{1,4} (1. Katholieke Universiteit Leuven, 2. CERN, 3. University School for Advanced Studies IUSS, 4. Heriot-Watt University)

[P-23] Hands-on maintenance for the target diagnostic system on top shielding of spallation neutron source at J-PARC 1h 20m

Speaker: Takashi NAOE, Koichi SARUTA, Makoto TESHIGAWARA, Hidetaka KINOSHITA, Takashi WAKUI, and Neutron Source Section (J-PARC Center)

[P-24] Safe handling equipment and procedures for activated material 1h 20m

Speaker: Hiroki Mukai (RIKEN)

14:10 → 14:50

[O-4-1] Environmental Protection and Sustainability

□ Room 201 (Large Conf. Room)

Convener: Sonja Kleiner (CERN)

14:10 **Targets of the Japanese Government and the current status of RIKEN in Earth Warming Prevention Activities** □ 20m

Speaker: Yoko Mori (RIKEN)

14:30 **Biodiversity at CERN - challenges for conservation and development** □ 20m

Speaker: Sabrina Schadeegg (CERN)

14:10 → 14:50

[O-4-2] Radiation Safety and Laser Safety

□ Room 202 (Conf. Room)

Convener: Graeme Finlan (STFC)

14:10 **Production of Astatine-211 in GANIL : risk assessment and feedback** □ 20m

Speaker: Yoann Trehudic (GANIL)

14:30 **Non-Ionising Radiation REGISTER (NIRREG): Backbone of laser safety at CERN** □ 20m

Speaker: Jordan Minier (CERN)

15:00 → 16:00

[I-3] Invited talk (3)

Convener: Kanenobu Tanaka (RIKEN)

15:00 **Improving Mental health in the workplace: a global trend and the case of Japan**

Speaker: Norito Kawakami (Project Professor, Department of Digital Mental Health, Graduate School of Medicine, The University of Tokyo/ President, The Junnukai Foundation)⁺

16:20 → 18:00

[O-5-1] Facility Safety Management, Challenge for Future Project

□ Room 201 (Large Conf. Room)

Convener: Graeme Finlan (STFC)

16:20 **Incidents with lifting equipment and activities at CERN** □ 20m

Speaker: Chris Burnett (CERN)

16:40 **Rolling Access: Access on demand for DESY beamlines and its impact on safety procedures** □ 20m

Speaker: Sabine Lessmann-Bassen (DESY)

17:00 **Safety Management on SPring-8/SACLA** □ 20m

Speaker: Chihiro Furutani (Harima Safety Center, RIKEN)

17:20 **Update on PETRA IV project** □ 20m

Speaker: Sven Mohr (DESY)

17:40 **Emergency response in 2048** □ 20m

Speaker: Marc Nas (CERN)

16:20 → 18:00

[O-5-2] Safety Culture, Facility Management⁺

□ Room 202 (Conf. Room)⁺

Convener: Saverio La Mendola (CERN)⁺

16:20 **The use of SHERPA Method in identifying human errors** □ 20m⁺

Speaker: Rema Malar Armugam (MAX IV)⁺

16:40 **ISOLDE - From an incident analysis to an increase of safety culture** □ 20m⁺

Speaker: Letizia Di Giulio (CERN)

17:00 **Safety Aspects of the Technical Galleries Consolidation Program** □ 20m⁺

Speaker: Iga Maria Krautzstrung (CERN)

17:20 **ESS Gas Detection System** □ 20m⁺

Speaker: Donya Daryadel (European Spallation Source ERIC)⁺

17:40 **Lessons learned from two small fires and fire prevention measures at J-PARC** □ 20m⁺

Speaker: Kotaro Bessho (J-PARC)⁺

WEDNESDAY, 12 JUNE

08:30 → 11:30 **Transportation from RIKEN to J-PARC by Coaches** □ 3h

11:30 → 14:10 **[O-6] Session at J-PARC**

□ JRB 2F Meeting Room (J-PARC)

Convener: Yoshihiro Nakane (J-PARC)

11:30 **Introduction of J-PARC** □ 20m

Speaker: Takeshi Komatsubara (J-PARC)

11:50 **Lunch Time with Japanese Lunch Box** □ 50m

12:40 **Recovery of the J-PARC accelerator from the earthquake in 2011** □ 30m

Speaker: Hidetomo Oguri (J-PARC)

13:10 **Status of fire safety in the European Economic Area** □ 40m

Speaker: Brecht Debrouwere (CERN)

13:50 **Safety management of remote handling and in-cell work for maintenance of spallation neutron production target components in J-PARC** □ 20m

Speaker: Brecht Debrouwere (CERN)

THURSDAY, 13 JUNE

- 09:00** → 10:00 **[O-7-1] Fire Safety** □ Room 201 (Large Conf. Room)
Convener: Fredrik Jörud (European Spallation Source ERIC)
- 09:00** **1D modelling approach for life safety assessments in long tunnels based on the 'endangered length' indicator** □ 20m
Speaker: Lorenzo Contini, Oriol Rios, Saverio La Mendola (CERN)
- 09:20** **Use of AI for FIRIA, Fire-Induced Radiological Integrated assessments** □ 20m
Speaker: Brecht Debrouwere (CERN)
- 09:40** **Evacuation drill as a stress test for an older building** □ 20m
Speaker: Fabian Saretzki (DESY)
- 09:00** → 10:00 **[O-7-2] Chemical Safety** □ Room 202 (Conf. Room)
Convener: Sven Mohr (DESY)
- 09:00** **Nanoparticles generated in experiments using high-power lasers** □ 20m
Speaker: Petra Dvořáková Ruskayová, Martin Přeček, Florian Condamine, Veronika Olšovcová (ELI ERIC)
- 09:20** **Handling Incidents in the Users' Chemistry Laboratory** □ 20m
Speaker: Anca-Simona Ciobanu (DESY)
- 09:40** **Management of Hazardous Substances at ESO Headquarters: an Implementation from Scratch** □ 20m
Speaker: Sara Álvarez Díaz (ESO, European Southern Observatory)
- 10:00** → 10:10 **Break**
- 10:10** → 11:40 **RIKEN RIBF Tour**
- 11:40** → 12:40 **Lunch Break** □ 1h
- 12:40** → 13:40 **[PS-2] Poster Session 2: Poster Session 2 (60 min.)** □ Communication Longe
- 13:40** → 14:20 **[O-8-1] Facility Management** □ Room 201 (Large Conf. Room)
Convener: Rema Malar Armugam (MAX IV)
- 13:40** **Access management and safety at ESS Bunker** □ 20m
Speaker: Morteza MansOURI (European Spallation Source ERIC)
- 14:00** **An exceptional conformity assessment process for HL-LHC pressure equipment** □ 20m
Speaker: Simon Marsh (CERN)
- 13:40** → 14:20 **[O-8-2] Safety Training and Risk Assessment** □ Room 202 (Conf. Room)
Convener: Kotaro Bessho (J-PARC)
- 13:40** **E-learning materials for safety in J-PARC** □ 20m
Speaker: Yoshimi Kasugai (J-PARC)
- 14:00** **Risk assessment process – From machine safety to occupational health and safety** □ 20m
Speaker: Michael Prollius, Prasad Thute (EuXFEL GmbH)
- 14:20** → 20:30 **Koedo Tour : Excursion & Dinner** □ Koedo, Kawagoe

FRIDAY, 14 JUNE

09:00 → 10:20 **[0-9-1] Fire Safety, Measures against Earthquakes**

□ Room 201 (Large Conf. Room)

Convener: Rema Malar Armugam (MAX IV)

09:00 **Renovation of the North Area fire safety systems** □ 20m

Speaker: Anna Suwalska, Yacine Kadi, Pierre Ninin, Timo Hakulinen (CERN)

09:20 **Fire Suppression in Klystron Gallery** □ 20m

Speaker: Fredrik Jörud (European Spallation Source ERIC)

09:40 **Recent Advanced Seismic Studies at CERN** □ 20m

Speaker: M. Andreini and S. La Mendola (CERN)

10:00 **Earthquake-registrant clamping project in RIKEN** □ 20m

Speaker: Izan Amano (RIKEN)

09:00 → 10:20 **[0-9-2] Environmental Protection and Sustainability**

□ Room 202 (Conf. Room)

Convener: Yoshimi Kasugai (J-PARC)

09:00 **CERN's strategy for an environmentally responsible research** □ 20m

Speaker: Benoit Delille, Sonja Kleiner, Luisa Ulrici (CERN)

09:20 **From detection to intervention - how environmental incidents are managed at CERN** □ 20m

Speaker: Sabrina Schadegg (CERN)

09:40 **Helium recycle project in RIKEN Presentation** □ 20m

Speaker: Hiroki Okuno, Tomoyuki Dantsuka (RIKEN)

10:00 **CERN's historic Main Building – removing building pollutants from the past** □ 20m

Speaker: Mathieu Lemetayer (CERN)

10:20 → 10:40 **Break** □ 20m

10:40 → 12:00 **[0-10-1] Electrical Safety**

□ Room 201 (Large Conf. Room)

Convener: Sven Mohr (DESY)

10:40 **CERN Cable Ageing Research program** □ 20m

Speaker: Jose Gascon (CERN)

11:00 **Reinforcing Electrical Safety at CERN** □ 20m

Speaker: Jose Gascon (CERN)

11:20 **Electric shock incident on an Instrument Crane** □ 20m

Speaker: Helen Boyer (European Spallation Source ERIC)

11:40 **CERN Electrical Safety Rules : challenges and opportunities** □ 20m

Speaker: Angela Goehring-Crinon (CERN)

10:40 → 12:00 **[O-10-2] Challenges and Tools for Safety**

□ Room 202 (Conf. Room)

Convener: Saverio La Mendola (CERN)

10:40

An updated approach to oxygen deficiency hazard analysis at CERN □ 20m

Speaker: Simon Marsh (CERN)

11:00

NuisoCERN project □ 20m

Speaker: Jordan Minier (CERN)

11:20

Incident Reporting at ESS: Development of a New Reporting Tool □ 20m

Speaker: Nathalie de Ruelle (European Spallation Source ERIC)

11:40

Electrical Safety inspection software toolbox at CERN □ 20m

Speaker: Andriy Boychenko (CERN)

→ 12:10 **Break**

→ 12:40 **Closing**

□ Room 201 (Large Conf. Room)

Convener: Kanenobu Tanaka (RIKEN), Kotaro Bessho (J-PARC), Yves Loertscher (CERN)

Facility Introduction Poster

Canadian Light Source

CERN

DESY

ELI Beamline

ESO

ESS

J-PARC

KEK IPNS

MAX IV

NanoTerasu

PAL

QST Chiba

RIKEN

STFC

Super KEKB