

## International Technical Safety Forum 2024 Tentative Program

| Monday, June 10 (RIKEN Wako Campus)                                      |                      |   |       |
|--|----------------------|---|-------|
| Opening, Welcome   |                      |   | 13:00 |
| <b>Lessons Learned from Incidents</b>                                    |                      |   |       |
| Atsushi Kitagawa   | QST Chiba            | Experience in the fire at the cyclotron facility and its living lesson in QST   | 13:20 |
| Bill Rainey  | TJNAF                | ePAS - managing subjectivity in hazard assessment and control   | 13:40 |
| Morteza Mansouri   | ESS                  | Learning from incidents; formal and informal methods  | 14:00 |
| Break (20 min)   |                      |   | 14:20 |
| <b>Safety Management at User Facility and Joint Construction Project</b> |                      |   |       |
| Guy Thomas   | Diamond Light Source | Applying the principles of Safe Operating Envelopes to user experimental safety in synchrotron beamlines.   | 14:40 |
| Marcin Bielawski   | MAX IV               | Implementing Experimental Safety at MAX IV  | 15:00 |
| Keitaro Kondo  | QST Rokkasho         | Health and safety challenges in the joint implementation by Japan and EU for the validation of Linear IFMIF Prototype Accelerator (LIPAc) at Rokkasho | 15:20 |
| Bill Rainey  | TJNAF                | Electron Ion Collider - integrating ES&H requirements across multiple laboratories and partners   | 15:40 |
| Break (10 min)   |                      |   | 16:00 |
| <b>Invited Talk (1)</b>  |                      |   |       |
| Nobuhisa Eguchi  | JAMSTEC              | Safety management of the Deep-sea Scientific Drilling Vessel "CHIKYU" and the Manned Research Submersible "SHINKAI 6500"                              | 16:10 |
| <b>Group photo (20 min)</b>  |                      |   | 17:10 |

| <b>Tuesday, June 11 (RIKEN Wako Campus)</b>        |                       |   |       |
|--|-----------------------|---|-------|
| Hiroyoshi Sakurai                                  | RIKEN                 | Introduction of RIKEN RIBF (20min)  | 9:00  |
| <b>Safety Culture</b>                              |                       |   |       |
| Tim West   | Canadian Light Source | Leader Standard Work – Practical actions and behaviours to support a safety culture                       | 9:20  |
| Julie Biringer                                     | CERN                  | Leveraging Safety Culture   | 9:40  |
| Toshihiro Mimashi                                  | KEK                   | Safety and Health Week Festival in KEK  | 10:00 |
| Break (20 min)                                     |                       |   | 10:20 |
| <b>Invited Talk (2)</b>                            |                       |   |       |
| Rieko Hojo   | Nagaoka UT            | Well-being assessment and Behavioral Analysis applied to risk reduction measure at work                   | 10:40 |
| <b>Lunch Break (70 min)</b>                        |                       |   | 11:40 |
| <b>Poster Session 1 (80 min)</b>                   |                       |   | 12:50 |
| <b>Environmental Protection and Sustainability</b> |                       |   |       |
| Yoko Mori  | RIKEN                 | Targets of the Japanese Government and the current status of RIKEN in Earth Warming Prevention Activities | 14:10 |
| Sabrina Schadeegg                                  | CERN                  | Biodiversity at CERN - challenges for conservation and development  | 14:30 |
| <b>Radiation Safety and Laser Safety</b>           |                       |   |       |
| Yoann Trehudic                                     | GANIL                 | Production of Astatine-211 in GANIL : risk assessment and feedback  | 14:10 |
| Jordan Minier                                      | CERN                  | Non-Ionising Radiation REGister (NIRREG): Backbone of laser safety at CERN                                | 14:30 |
| Break (10 min)                                     |                       |   | 14:50 |

| <b>Invited Talk (3)</b>   |              |   |       |
|---|--------------|---|-------|
| Norito Kawakami   | Tokyo Univ.  | Improving Mental health in the workplace: a global trend and the case of Japan          | 15:00 |
| Break (20 min)  |              |   | 16:00 |
| <b>Facility Safety Management, Challenge for Future Project</b> |              |   |       |
| Chris Burnett   | CERN         | Incidents with lifting equipment and activities at CERN                                 | 16:20 |
| Sabine Lessmann-Bassen  | DESY         | Rolling Access: Access on demand for DESY beamlines and its impact on safety procedures | 16:40 |
| Chihiro Furutani  | RIKEN Harima | Safety Management on SPring-8/SACLA   | 17:00 |
| Sven Mohr   | DESY         | Update on PETRA IV project  | 17:20 |
| Marc Nas  | CERN         | Emergency response in 2048  | 17:40 |
| <b>Safety Culture, Facility Management</b>                      |              |   |       |
| Rema Malar Armugam  | MAX-IV       | The use of SHERPA Method in identifying human errors                                    | 16:20 |
| Letizia Di Giulio   | CERN         | ISOLDE - From an incident analysis to an increase of safety culture (Remote)            | 16:40 |
| Iga Maria Krautztrung   | CERN         | Safety aspects of the technical galleries consolidation program (Remote)                | 17:00 |
| Donya Daryadel  | ESS          | ESS Gas Detection System  | 17:20 |
| Kotaro Bessho   | J-PARC       | Lessons learned from two small fires and fire prevention measures at J-PARC             | 17:40 |

18:00 End

| <b>Wednesday, June 12 (J-PARC Center)</b>                         |        |  |        |
|---|--------|--|--------|
| Transportation from RIKEN to J-PARC by Coaches                    |        |  | 8:30   |
| Takashi Kobayashi   | J-PARC | Introduction of J-PARC (20min)   | 11:30  |
| <b>Lunch Time with Japanese Lunch Box (Bentou) (50 min)</b>       |        |  | 11:50  |
| Hidetomo Oguri  | J-PARC | Recovery of the J-PARC accelerator from the earthquake in 2011 (30min)   | 12:40  |
| Brecht Debrouwere   | CERN   | Status of fire safety in the European Economic Area (40min)  | 13:10  |
| Takashi Naoe  | J-PARC | Safety management of remote handling and in-cell work for maintenance of spallation neutron production target components in J-PARC (20min) | 13:50  |
| Break (10 min)  |        |  | 14:10  |
| <b>J-PARC Facility Tour (120min)</b>                              |        |  | 14:20  |
| Break (10 min)  |        |  | 16:20  |
| Transportation from J-PARC to RIKEN / Wako-Shi Station by Coaches |        |  | 16:30  |
| Arriving at RIKEN / Wako-Shi Station                              |        |  | ~19:30 |

**Thursday, June 13 (RIKEN Wako Campus)**

**Fire Safety**

|                    |      |  |      |
|--------------------|------|--|------|
| Saverio La Mendola | CERN | 1D modelling approach for life safety assessments in long tunnels based on the 'endangered length' indicator | 9:00 |
| Brecht Debrouwere  | CERN | Use of AI for FIRIA, Fire-Induced Radiological Integrated assessments  | 9:20 |
| Fabian Saretzki    | DESY | Evacuation drill as a stress test for an older building  | 9:40 |

**Chemical Safety**

|                              |          |  |      |
|------------------------------|----------|--|------|
| Petra Dvořáková<br>Ruskayová | ELI ERIC | Nanoparticles generated in experiments using high-power lasers                         | 9:00 |
| Anca-Simona Ciobanu          | DESY     | Handling Incidents in the Users' Chemistry Laboratory                                  | 9:20 |
| Sara Álvarez Díaz            | ESO      | Management of Hazardous Substances at ESO Headquarters: an Implementation from Scratch | 9:40 |

Break (10 min)

10:00

**RIKEN RIBF Tour (90min)**

10:10

Lunch Break (60 min)

11:40

**Poster Session 2 (60 min)**

12:40

**Facility Management**

|                  |      |  |       |
|------------------|------|--|-------|
| Morteza Mansouri | ESS  | Access management and safety at ESS Bunker                                 | 13:40 |
| Simon Marsh      | CERN | An exceptional conformity assessment process for HL-LHC pressure equipment | 14:00 |

| Safety Training and Risk Assessment |             |   |       |
|-------------------------------------|-------------|---|-------|
| Yoshimi Kasugai                     | J-PARC      | E-learning materials for safety in J-PARC                                       | 13:40 |
| Michael Prollius                    | EuXFEL GmbH | Risk assessment process – From machine safety to occupational health and safety | 14:00 |
| Koedo Tour, Banquet                 |             |   | 14:20 |

~ 20:30 End

**Friday, June 14 (RIKEN Wako Campus)**

**Fire Safety, Measures against Earthquakes**

|                    |       |  |       |
|--------------------|-------|--|-------|
| Anna Suwalska      | CERN  | Renovation of the North Area fire safety systems | 9:00  |
| Fredrik Jörud      | ESS   | Fire Suppression in Klystron Gallery             | 9:20  |
| Saverio La Mendola | CERN  | Recent Advanced Seismic Studies at CERN          | 9:40  |
| Izan Amano         | RIKEN | Earthquake-registrant clamping project in RIKEN  | 10:00 |

**Environmental Protection and Sustainability**

|                   |       |  |       |
|-------------------|-------|--|-------|
| Sonja Kleiner     | CERN  | CERN's strategy for an environmentally responsible research                      | 9:00  |
| Sabrina Schadeegg | CERN  | From detection to intervention - how environmental incidents are managed at CERN | 9:20  |
| Hiroki Okuno      | RIKEN | Helium gas recycle in RIKEN Wako campus  | 9:40  |
| Mathieu Lemetayer | CERN  | CERN's historic Main Building – removing building pollutants from the past       | 10:00 |

Break (20 min)

10:20

**Electrical Safety**

|                        |      |  |       |
|------------------------|------|--|-------|
| Jose Gascon            | CERN | Cable Aging Research Project (CARE) Overview                               | 10:40 |
| Jose Gascon            | CERN | CERN Electrical Safety Project (ESP) Overview                              | 11:00 |
| Helen Boyer            | ESS  | Electric shock incident on an Instrument Crane                             | 11:20 |
| Angela Goehring-Crinon | CERN | Challenges and opportunities for CERNs new framework for electrical safety | 11:40 |

| <b>Challenges and Tools for Safety</b> |      |  |       |
|--|------|--|-------|
| Simon Marsh                            | CERN | An updated approach to oxygen deficiency hazard analysis at CERN | 10:40 |
| Jordan Minier                          | CERN | NuisoCERN project  | 11:00 |
| Nathalie de Ruelle                     | ESS  | Incident Reporting at ESS: Development of a New Reporting Tool   | 11:20 |
| Andriy Boychenko                       | CERN | Electrical Safety inspection software toolbox at CERN            | 11:40 |
| Break (10 min)                         |      |  | 12:00 |
| <b>Closing</b>                         |      |  | 12:10 |

12:40 End



## Poster Presentations

Session (1) : Tuesday, June 11, 12:50-14:10, Session (2) : Thursday, June 13, 12:40-13:40

|                        |                |  |
|------------------------|----------------|--|
| Shogo Higaki           | Univ. Tokyo    | Minor accidents occurred at the Isotope Science Center, the University of Tokyo from FY2020 to FY2023  |
| Hiroki Matsuda         | QST Nanoterasu | Accidents at Nanoterasu before user operation  |
| Masumi Suzuki          | J-PARC         | Some practices of "KY Training": Training for Risk Anticipation in a Pre-Work Briefing at J-PARC   |
| Masahiro Hirota        | Shinshu Univ.  | Educational program initiatives in university liberal arts courses aimed at disseminating accurate radiation knowledge to the general public |
| Masami Tashima         | KEK            | Introduction of New Safety Scheme for Hazard Information Sharing at KEK  |
| Keiko Haraguchi        | KEK            | Report on Safety and Health-Related Activities at KEK Tokai Campus   |
| Jeong-Mu Hur           | PAL            | Implementing a Fall Prevention Device for 154kV Transmission Tower   |
| Yoshifumi Sakaguchi    | CROSS          | User equipment safety examinations at the MLF J-PARC   |
| Jose Gascon            | CERN           | CERN ELECNSOR Project  |
| Iga Maria Krautzstrung | CERN           | Safety Aspects of the Technical Galleries Consolidation Program  |
| Keitaro Kondo          | QST Rokkasho   | Health and safety management overview in the validation of Linear IFMIF Prototype Accelerator (LIPAc) at Rokkasho                            |
| Takeyoshi Goto         | KEK            | Chemical safety management for electropolishing work of Nb cavities at KEK   |
| Kanenobu Tanaka        | RIKEN          | Discovery and measures of asbestos in a cable pit of an accelerator building   |

|                    |           |  |
|--------------------|-----------|--|
| Hideaki Takechi    | KEK       | Introduction of Environmental Safety Office at KEK   |
| Masaki Ishida      | KEK       | Chemical analysis for supporting accelerator operation in KEK  |
| Brecht Debrouwere  | CERN      | Combustibility of epoxy resin for warm magnet coils used at CERN   |
| Brecht Debrouwere  | CERN      | Compressed Air Foam System (CAFS) test: a collaborative evaluation by CERN Fire and Rescue Service and HSE-OHS |
| Koichi Nishikawa   | QST Chiba | Emergency Drill Efforts in the National Institutes for Quantum Science and Technology in Chiba District        |
| Kyungmin Kim       | PAL       | Effective Early Fire Extinguishing Using Compact Fire Extinguisher   |
| Jonathan Livin     | GANIL     | Fire safety improvement in GANIL facilities  |
| Saverio La Mendola | CERN      | False Floors Inventory for the Prioritization of Consolidation Interventions                                   |
| Saverio La Mendola | CERN      | Computation Fluid Dynamics (CFD) assessment of the environmental dispersion of particles from CERN facilities  |
| Takuya Saze        | NIFS      | Radioactivation measurement around the large helical device (LHD)  |
| Takashi Naoe       | J-PARC    | Hands-on maintenance for the target diagnostic system on top shielding of spallation neutron source at J-PARC  |
| Hiroki Mukai       | RIKEN     | Safe handling equipment and procedures for activated material  |