



## Summer Workshop 2022

### Radioactive material dissemination – sea and atmosphere Radioactive waste

Cherbourg - France

October 24-28, 2022

Version July 22, 2022

The ETSON JSP Summer Workshop is an annual networking event of young professionals from Technical Safety Organizations (TSOs). Program comprises presentations given by participants, interactive group work and moderated workshops on a specific topic.

The Summer Workshop encourages intercultural interaction, exchange of expert knowledge and good practices and provides to participants a good opportunity to widen their professional network.

Participation to the Workshop is free of charge. Participants must be nominated by ETSON member organizations and should have basic knowledge of nuclear safety concepts and methodologies. Candidates are encouraged to contact their local ETSON JSP Delegate (information available at: <http://www.etson.eu/jsp>).

#### Venue

The Workshop will be held in Cherbourg, town located approx. 200 km distance from Paris. From Paris, Cherbourg can be reached by train (3 hours 30mn) through Saint-Lazare Station. The meetings will take place at the LE CERCLE Hotel in the center of Cherbourg.

Lunch is included, and transport for the technical tour on Wednesday. You cover travel, dinner and accommodation. Please arrive on Sunday evening; departure will be on Friday afternoon.

#### Technical Tours

A technical visit of EDF EPR Flamanville or else ORANO / high activity waste vitrification or ANDRA low activity waste repository is foreseen.

A visit of the « La Cité de la mer » will allow for a better approach with the marine environment.

#### Accommodation

Cherbourg recommended hotels:

##### **Hotel Le cercle** [www.hotel-lecercle.com](http://www.hotel-lecercle.com)

13 Place de la République

Tél : +33 (0)2 33 01 44 60

Fax : +33 (0)2 33 01 44 61

[reception@hotel-lecercle.com](mailto:reception@hotel-lecercle.com)

(a number of rooms are pre-booked)

##### **Hotel Mercure Cherbourg Centre Port**

[Hôtel 4 étoiles à Cherbourg - Mercure Cherbourg Centre Port - ALL \(accor.com\)](http://www.hotel-mercure.com)

Cherbourg, France

13 Quai de l' Entrepôt.

Tel : [+33 2 33 44 01 11](tel:+33233440111)

Fax : +33 2 33 44 51 00

Email de contact: [H9622@ACCOR.COM](mailto:H9622@ACCOR.COM)

For further information, please contact:  
Nicolas Jenner ([nicolas.jenner@irsn.fr](mailto:nicolas.jenner@irsn.fr))

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00–10.30	<b>OPENING SESSION</b> Welcome speech Mr. Denis Maro, IRSN Self-introduction of participants ETSON organization and activities <i>Nicolas Jenner, IRSN</i>	<b>SECOND SESSION</b> <i>Chair: Danilo Ferreto</i>  LOW LEVEL AIR RADIOACTIVITY MEASUREMENTS IN PRAGUE (SÚRO)  Radioactivity in the oceans: An Earth scientist's perspective (NNL)	<b>TECHNICAL VISITS</b> <b>Departure 08:00 from the Hotel Le Cercle</b>  <b>Visit of the EPR Flamanville</b>	<b>THIRD SESSION (cont'd)</b>  Nuclear history and its importance for Gen IV reactors (SÚRO)  Principles of post-accident management of a nuclear accident in France (ASN)	<b>TECHNICAL VISIT</b>  <b>La Cité de la Mer Sea Ecology</b>  The Ocean of the Future From the surface of the sea down to the ocean depths
10.30–11.00	Coffee break	Coffee break		Coffee break	
11.00–13.00	<b>General presentations of the TSOs by ETSON JSP Delegates</b>	<b>Case study 1</b> Simulations of consequences of a long term blackout in a VVER 1000 in Ukraine (SÚRO)		<b>Case study 2</b> Atmosphere and sea interactions in material dissemination (IRSN)	
13.00–14.00	Lunch at the Hotel	Lunch at the Hotel	Lunch in Octeville	Lunch at the Hotel	Lunch at the Cité de la mer
14.00–15.30	<b>FIRST SESSION</b> <i>Chair: Antonio Cervone</i>  ATMOSPHERIC TRANSFERS OF RADIONUCLIDES: AN OVERVIEW (IRSN)	<b>SECOND SESSION</b>  Improving Contrast and Localisation within Airborne Gamma-Spec Surveys (NNL)	<b>Visit of the IRSN laboratory for sea ecology and radioactive material dispersion</b> <i>Octeville</i>	<b>FOURTH SESSION</b> <i>Chair: Aurélie Galzy</i> <i>Disposal facilities</i>  VTT's district heating reactor design LDR-50 (VTT)	<b>Departure</b>
15.30–16.00	Coffee break	Coffee break		Coffee break	
16.00–17.30	Radiological consequence analysis with the Atmospheric Radionuclide Transport Model ARTM and Computational Fluid Dynamics (CFD) simulations (GRS)	<b>THIRD SESSION</b> <i>Chair: Nicolas Jenner</i> <i>Safety of installations</i>  Deep Geological Repositories overview (SÚRO)  Geological Disposal Facility Regulatory Framework and Challenges in the UK (Jacobs)		Study on best-estimate thermal-hydraulic evaluation for nuclear power plants (NRA, Japan)  Surface Disposal Facility Long-term management of low-level radioactive waste (BEL V)  French Surface Disposal Facilities from CSM to CSA: Lessons learned (IRSN)	
17.30-18.30		<b>ETSON JSP Delegates meeting (hybrid)</b>			
Evening	Free	Free	Dinner	Free	