



ISOE ACHIEVEMENTS IN 2025

On behalf of all ISOE TCs

ISOE Management Board

Vienna, December 10 – 12, 2025

Hybrid Meeting



Achievements in view of the 13 goals of the ISOE Strategic Plan 2022-2026

- 1. Symposia
- 2. Benchmarking visits
- 3. Webinars
- 4. ISOE Database
- 5. ISOE Forum
- 6. Major projects
- 7. Website
- 8. Young HPs
- 9. New builds
- 10. Decommissioning
- 11. ISOE WGs
- 12. ISOE Promotion
- 13. Cooperation

ISOE ALARA symposia

Benchmarking visits

Webinars

Occupational exposure database

ISOE forum

Exchange of major project information

ISOE network website

Involvement of younger health physicists

**ALARA good practices in ORP
Design and operation of NPPs**

**ALARA good practices in ORP
NPPs under decommissioning**

ISOE expert/working groups

Promotion of ISOE

Strengthen co-operation with RP-related organisations

2025 SYMPOSIA

Organising and conducting international and regional ISOE ALARA symposia

► 2025 International Symposium

- Organised by IAEA TC
- 22-24 October 2025, Weihai (China)
- Visit to Shidao Bay NPP
- 88 participants from 13 countries & 4 vendors



1. Symposia

2. Benchmarking visits

3. Webinars

4. ISOE Database

5. ISOE Forum

6. Major projects

7. Website

8. Young HPs

9. New builds

10. Decommissioning

11. ISOE WGs

12. ISOE Promotion

13. Cooperation

2025 SYMPOSIA

Organising and conducting international and regional ISOE ALARA symposia

- ▶ **2025 International Symposium – 5 Distinguished papers**
 - ▶ Analysis of Occupational Exposure Status and Good Practices in Operating Nuclear Power Plants in China
Y. Fang, Nuclear and Radiation Safety Center (NSC), China
 - ▶ Radiation Protection Performance Indicator System of CNNP
Q. Chen, CNNP Jiangsu Nuclear Power Corporation, China
 - ▶ Surface Contamination Control Practices and Refined Management of the Cleanliness Radiation Controlled Area (CRCA) Mode at Taishan Nuclear Power Plant
X. Ren, Taishan Nuclear Power Joint Venture Co., Ltd., China
 - ▶ Source term after chemical decontamination and design modification
R. Hoffmeister, Leibstadt NPP, Switzerland
 - ▶ Investigation for Radioactive Deposition Source Terms of AP1000 Units
Q. Gou, Shandong Nuclear Power Company Ltd., China

1. Symposia

2. Benchmarking visits

3. Webinars

4. ISOE Database

5. ISOE Forum

6. Major projects

7. Website

8. Young HPs

9. New builds

10. Decommissioning

11. ISOE WGs

12. ISOE Promotion

13. Cooperation

2025 SYMPOSIA

Organising and conducting international and regional ISOE ALARA symposia

► 2025 North-American Symposium

- Organised by NATC
- 14-16 January 2025, Clearwater (USA)
- 118 participants 14 NRC Regional Managers and HP Inspectors, RPMs, ALARA supervisors, RP technicians, INPO RP Manager, NEI RP Manager and NASA scientist.
- Countries represented included Canada, Japan, Switzerland and USA
- 38 vendors and suppliers
- RPM meeting on 16 January afternoon



- 1. Symposia
- 2. Benchmarking visits
- 3. Webinars
- 4. ISOE Database
- 5. ISOE Forum
- 6. Major projects
- 7. Website
- 8. Young HPs
- 9. New builds
- 10. Decommissioning
- 11. ISOE WGs
- 12. ISOE Promotion
- 13. Cooperation

2025 SYMPOSIA

Organising and conducting international and regional ISOE ALARA symposia

► 2025 North-American Symposium

► Keynote Address by The **Honorable David A. Wright**, US NRC Commissioner.

► 2024 World Class ALARA Performance Award

► Presented to **Bruce Power** for achieving an 80% reduction in boiler refurbishment dose after performing a system chemical decontamination.

► **Fermi 1 received the Outstanding Innovation Award** for implementation of the WMG radwaste characterization using new CZT technology which simplifies the preparation of US Dept of Transportation Waste Manifest.



1. Symposia

2. Benchmarking visits

3. Webinars

4. ISOE Database

5. ISOE Forum

6. Major projects

7. Website

8. Young HPs

9. New builds

10. Decommissioning

11. ISOE WGs

12. ISOE Promotion

13. Cooperation

2025 SYMPOSIA

Organising and conducting international and regional ISOE ALARA symposia

► 2025 ISOE ATC Information Exchange Meeting on Benchmarking for Radiation Protection (Alternative event to the Regional Symposium)

- Organised by ATC
- 4-5 November 2025, Hamaoka NPP, Japan
- About 30 participants from South Korea and Japan



1. Symposia

2. Benchmarking visits

3. Webinars

4. ISOE Database

5. ISOE Forum

6. Major projects

7. Website

8. Young HPs

9. New builds

10. Decommissioning

11. ISOE WGs

12. ISOE Promotion

13. Cooperation

1. Symposia
2. Benchmarking visits
- 3. Webinars**
4. ISOE Database
5. ISOE Forum
6. Major projects
7. Website
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation

Creating ISOE webinars on specific topic

➤ **ISOE European RPMs webinar, 8 October 2025**

Organisation of a Teams meeting at the initiative of ISOE Chair, H. Meijer

- The use of Alpha value (Johannes Isokivelä, Hans Meijer)
- Dose to the Lens of the Eye: Risk and Monitoring at NPPs (Anna Prim)
- Use and Assignment of Respiratory Protection (Luca Trentin)
- ALARA issues associated to lifetime extension of reactors (Johannes Isokivelä)

➤ *Slides available on the ISOE website – RPM Meetings Proceedings (documents restricted to Utilities only)*





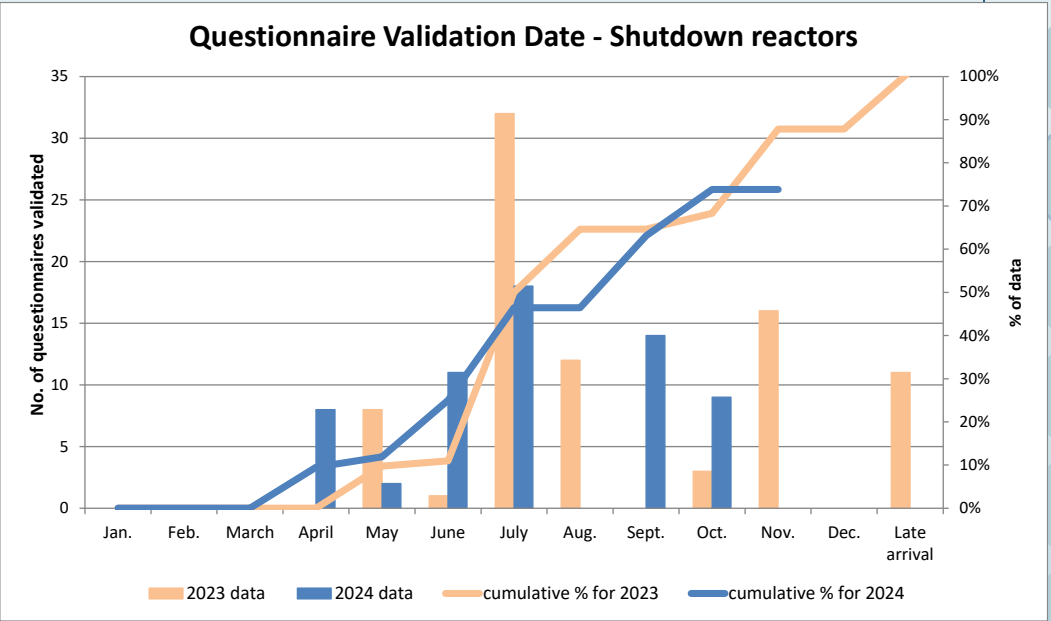
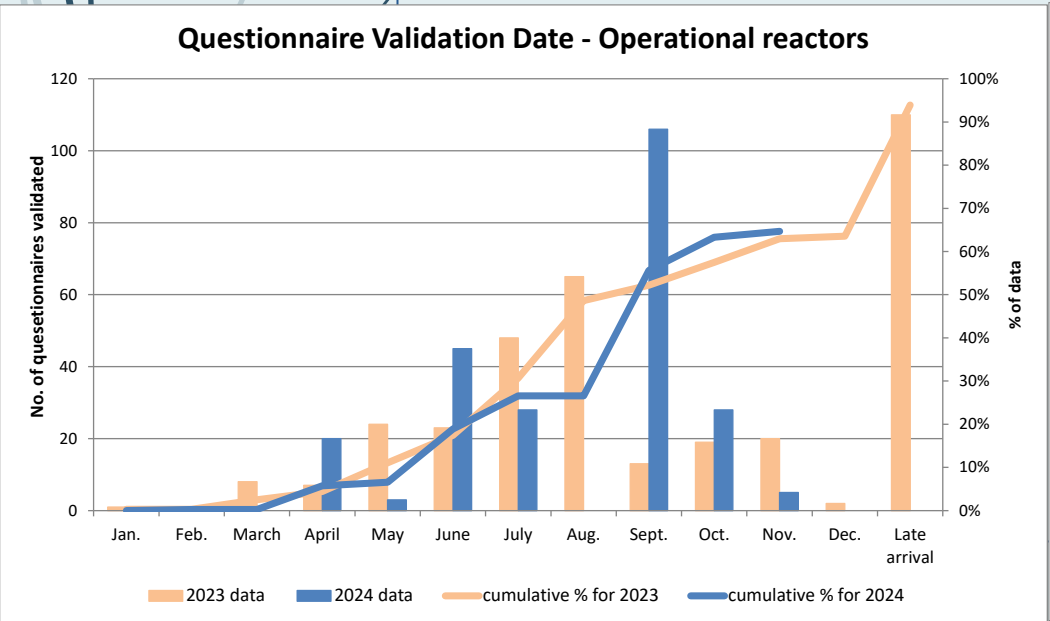
ISOE Database

- 1. Symposia
- 2. Benchmarking visits
- 3. Webinars
- 4. ISOE Database
- 5. ISOE Forum
- 6. Major projects
- 7. Website

Collecting annual occupational exposure data into the ISOE Database

- **2024 ISOE 1 Questionnaires available on website**
(as of December 4, 2025)
 - 65% of operating reactors
 - 74% of shutdown reactors

- 8. Young HPs
- 9. New builds
- 10. Decommissioning
- 11. ISOE WGs
- 12. ISOE Promotion
- 13. Cooperation





ISOE Database

Collecting annual occupational exposure data into the ISOE Database

2024 ISOE 1 Questionnaires not yet available – as of December 4, 2025

➤ Missing questionnaires (88):

- 56 US (operating and shutdown)
- All Belarus (2)
- China (11)
- All Finland (5)
- Korea (2)
- All Mexico (2)
- Pakistan (1)
- All Romania (2)
- Spain (1)
- Ukraine: Zaporizhzhya NPP

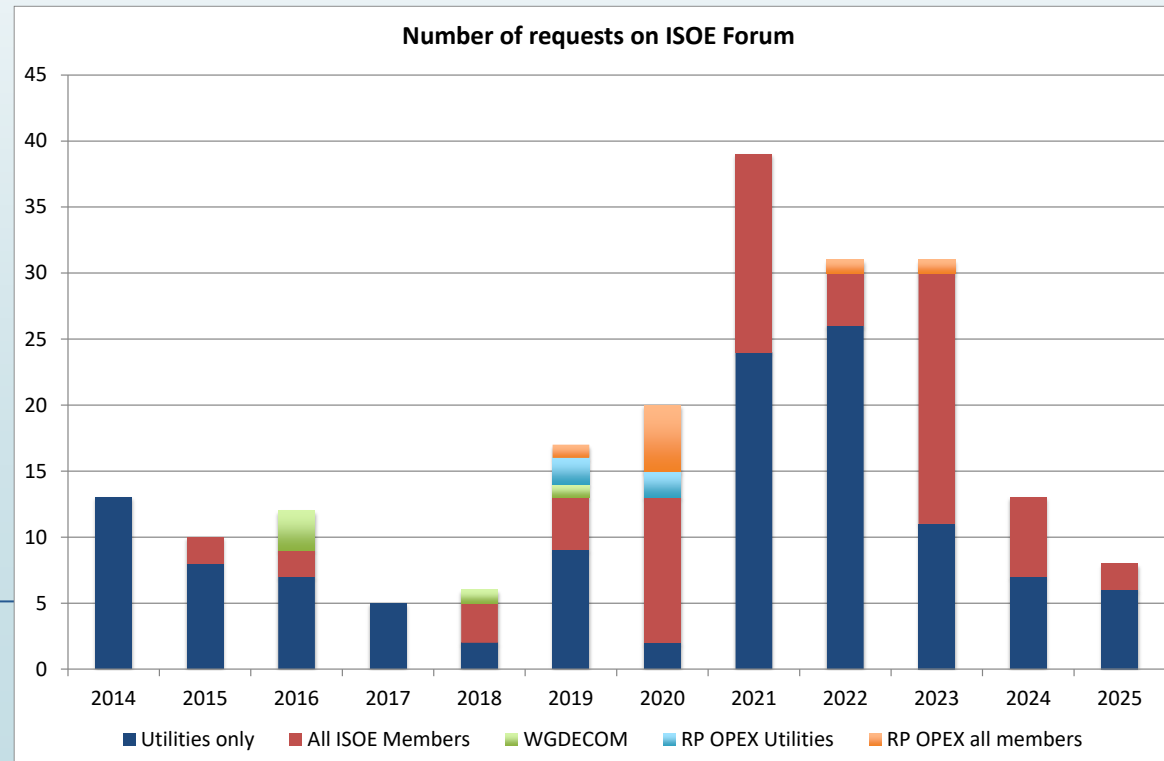
➤ Data entry in progress (63):

- Belgium (Tihange 1-2-3), China (Fangjiashan 1-2), France (Cattenom 1, Golfech 1), Sweden (Ringhals 3-4), USA (54)

1. Symposia
2. Benchmarking visits
3. Webinars
- 4. ISOE Database**
5. ISOE Forum
6. Major projects
7. Website
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation

Promoting the use of the ISOE forum

- 8 requests for information in 2025
- **BUT : very low rate of answers...** Despite the forward of request by e-mail to all members
 - Around 10 to 30 views
 - Most of the case only 1 or 2 answers (on the forum)



1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
7. Website
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation



ISOE Website

Number of registered ISOE members on the website

	Registered Persons as. of Nov. 2025 (compared with 2024)	
Authority	139	(148)
Utility	729	(723)
EC	1	(1)
under TCA	2	(2)
Technical Centres	18	(18)
Joint Secretariat	3	(3)
Other from NEA and IAEA	7	(6)
TOTAL	899	(901)

1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
- 7. Website**
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation



ISOE Website

► **Modification of ISOE website**

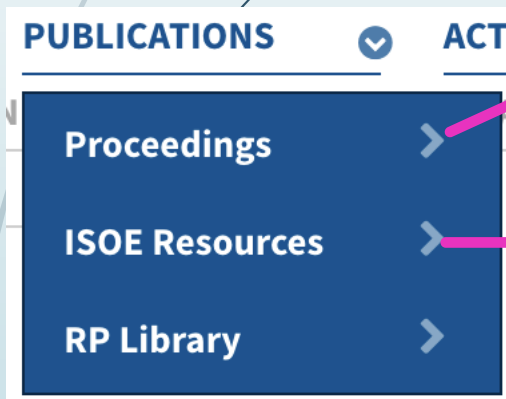
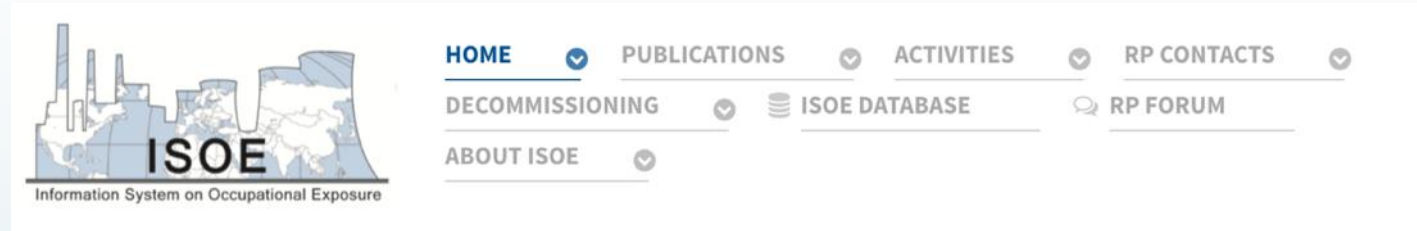
New menu: “RPM Meetings” under Publications > Proceedings

1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
- 7. Website**
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation



ISOE Website

Updating the content of the ISOE network website



Weihai, China

ISOE Annual Report - 2021

2024 ISOE Country Reports Rev. 0

2023 ISOE Country Reports Rev. 3

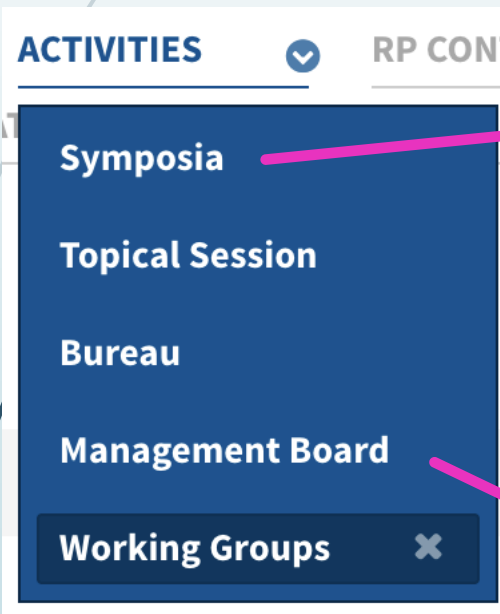
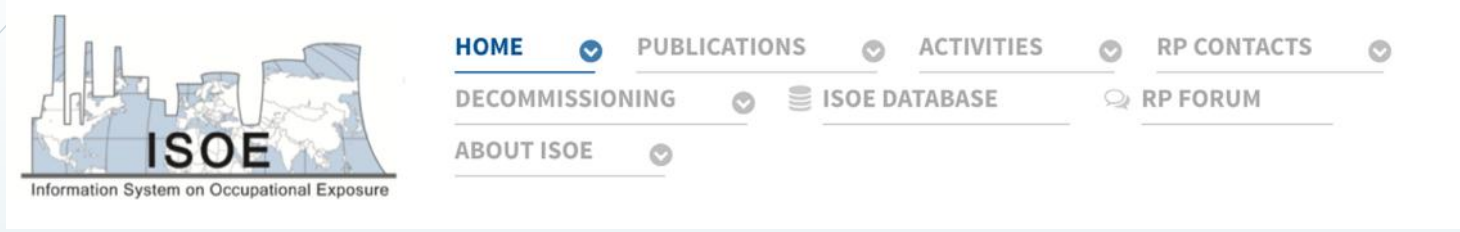
2022 ISOE Country Reports Rev. 5

- 1. Symposia
- 2. Benchmarking visits
- 3. Webinars
- 4. ISOE Database
- 5. ISOE Forum
- 6. Major projects
- 7. Website
- 8. Young HPs
- 9. New builds
- 10. Decommissioning
- 11. ISOE WGs
- 12. ISOE Promotion
- 13. Cooperation



ISOE Website

Updating the content of the ISOE network website



- Weihai, China
- Clearwater, USA
- Helsinki, Finland

Year 2024

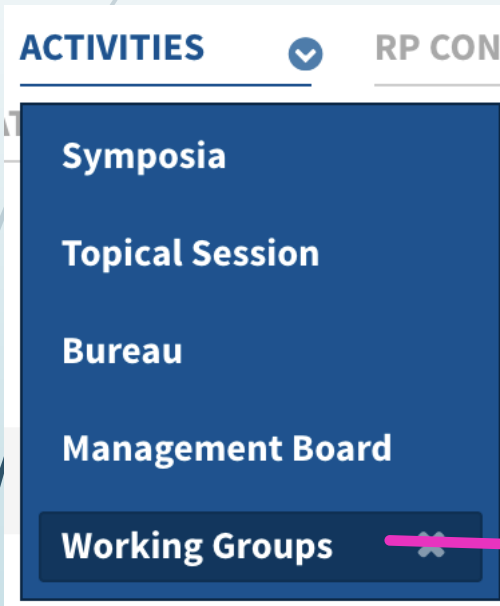
34th Meeting of the ISOE Management Board
3-5 December 2024, EDF, Saint-Denis, France

- 1. Symposia
- 2. Benchmarking visits
- 3. Webinars
- 4. ISOE Database
- 5. ISOE Forum
- 6. Major projects
- 7. Website
- 8. Young HPs
- 9. New builds
- 10. Decommissioning
- 11. ISOE WGs
- 12. ISOE Promotion
- 13. Cooperation



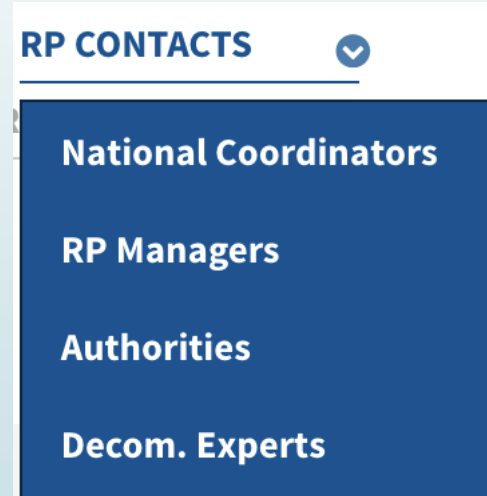
ISOE Website

Updating the content of the ISOE network website



WGDECOM

- 17th meeting, September 2025
- 16th meeting, April 2025



1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
7. Website
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation



ISOE Website

Updating the content of the ISOE network website



- HOME
- PUBLICATIONS
- ACTIVITIES
- RP CONTACTS
- DECOMMISSIONING
- ISOE DATABASE
- RP FORUM
- ABOUT ISOE

ABOUT ISOE

Presentation

ISOE Members

International
Cooperations

How to join ISOE?

Contact us

Other links of interest

ISOE Governing Tools

Legal Notice

ISOE Governing Tools

ISOE Operating Rules

- ISOE Terms and Conditions (2024-2027) (784 KB) Archives
- ISOE Expert and/or Working Groups Nomination Procedures (2020) (175 KB)
- ISOE Membership Types and Access Rules to ISOE Information (2020) (180 KB)

ISOE Strategic Programme Plan

- ISOE Strategic Programme Plan (2022-2026) (389 KB) Archives

ISOE Templates *(restricted to ISOE Members)*

- ISOE Country Report Template (2023) (124 KB) | for National Coordinators
- Technical Centre Performance Indicators Template (2025) (124 KB)
- Technical Centre Financial Aspects Template (2025-2026) (124 KB)
- Technical Cooperation Agreement (TCA) Template (2018) (103 KB)

1. Symposia

2. Benchmarking visits

3. Webinars

4. ISOE Database

5. ISOE Forum

6. Major projects

7. Website

8. Young HPs

9. New builds

10. Decommissioning

11. ISOE WGs

12. ISOE Promotion

13. Cooperation



Young Professionals

Establishing and maintaining programmes for sustainable involvement of younger generations of health physicists in ISOE activities

- ▶ Use of ISOE Symposium to involve the younger generation
- ▶ NATC encourages symposium RPMs to bring younger RP staff and/or RP technicians
- ▶ NATC started a “story board” of “How experienced RPMs became interested in a career in nuclear power health physics. Popular
- ▶ Canadian country coordinator, Ben Chui, employs student coops to collect and input annual Canadian data. Hayden Cox, 2025 Coop gives presentation at Sept annual CANDU RPM Mtg.
- ▶ NATC employs students from Un of Illinois and France to input US data since 1993. 32 students now work at US NPPs after meeting RPMs at ISOE symposia.
- ▶ Still need to think about more specific actions
 - ▶ Any proposal is welcomed!

1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
7. Website
- 8. Young HPs**
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation

New Builds

Communicating ALARA good practices and lessons learned in ORP for the design and operation of new nuclear builds

- ▶ ETC : oral presentation on “Occupational Radiation Protection at the Design Stage of Nuclear Installations”, ISOE International Symposium, Weihai, October 2025

1. Symposia

2. Benchmarking visits

3. Webinars

4. ISOE Database

5. ISOE Forum

6. Major projects

7. Website

8. Young HPs

9. New builds

10. Decommissioning

11. ISOE WGs

12. ISOE Promotion

13. Cooperation



Decommissioning

Sharing ALARA good practices and lessons learned from nuclear sites undergoing decommissioning

Through WGDECOM meeting

- 9-10 April 2025 – Teleconference meeting
- Two topical sessions
 - Irradiated Graphite Management and Disposal
 - Tritium-related Radiation Protection
- 2-5 September 2025 – Beijing, China
- Three topical sessions
 - In-field Gamma-Spectroscopy new technology
 - Nuclide vectors and scaling factors developments
 - Clearance measurements and systems

1. Symposia

2. Benchmarking visits

3. Webinars

4. ISOE Database

5. ISOE Forum

6. Major projects

7. Website

8. Young HPs

9. New builds

10. Decommissioning

11. ISOE WGs

12. ISOE Promotion

13. Cooperation



ISOE Promotion

Promoting ISOE system and its activities through the regular distribution of an ISOE newsletter and the publication of ISOE information sheets.

- **Secretariat** :
 - Annual Report, Country Report

 - **ISOE Training:**
 - ISOE Database
- All Swedish NPPs, Teams meeting, 23 September 2025

1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
7. Website
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation



Cooperation

Strengthening cooperation with RP-related international, scientific and technical organisations, associations, societies and networks.

- **ICRP: ISOE is a Specific Liaison Organisation (SLO)**
 - Participation of ISOE Chair to the ICRP SLO Meeting Vienna, Austria on 23 June 2025.

1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
7. Website
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation



THANK YOU FOR YOUR ATTENTION

1. Symposia
2. Benchmarking visits
3. Webinars
4. ISOE Database
5. ISOE Forum
6. Major projects
7. Website
8. Young HPs
9. New builds
10. Decommissioning
11. ISOE WGs
12. ISOE Promotion
13. Cooperation