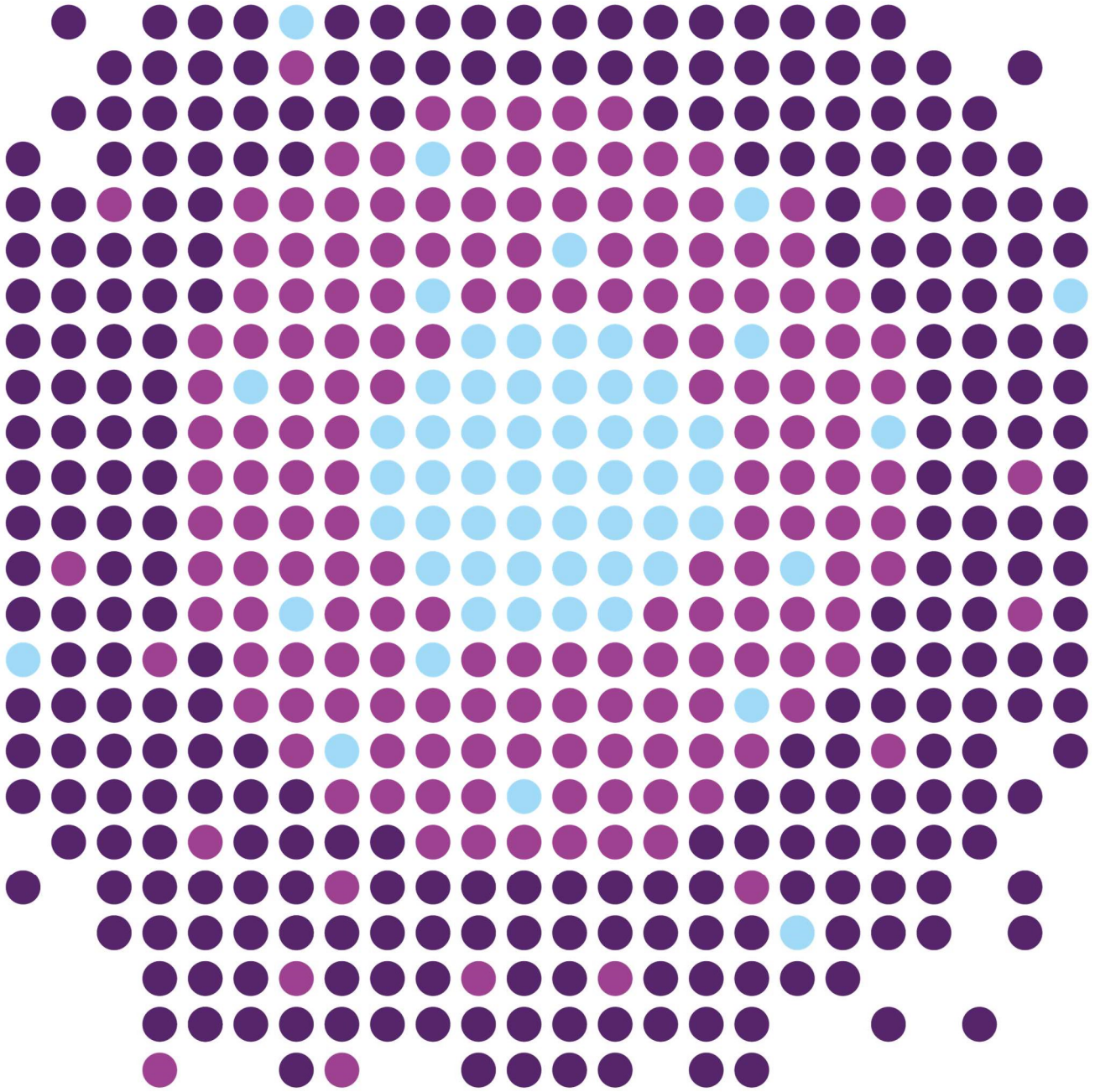


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9th OBT Workshop

May 10th-12th 2023
Antwerp, Belgium



Exploring
a better tomorrow



9th Organically Bound Tritium Workshop

May 10th-12th 2023 | Antwerp, Belgium

Welcome to the 9th Organically Bound Tritium (OBT) Workshop!

SCK CEN is excited to host the 9th Organically Bound Tritium (OBT) Workshop at the Lindner Hotel & City Lounge in Antwerp, Belgium.

This workshop provides an opportunity for the members of the OBT International group to meet and discuss their main objectives, also to promote OBT analysis, and to increase the interest of other institutions from the nuclear field:

- OBT and its behavior in the environment
- Model for H-3/OBT transfer in biota
- Analytical processes for determination of OBT in environmental samples
- Inter-comparison exercises
- Future considerations to continue the inter-comparison exercises and workshops in order to harmonize analytical methods for OBT analysis

We would like to thank you for your participation and we wish you a pleasant stay in Antwerp.

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Agenda

Wednesday, May 10 th 2023	
8:30 - 10:00	Registration open Welcome coffee
	Chair: Sang Bog Kim - IAEA, Austria
10:00 - 10:30	Opening Ceremony Michel Bruggeman, Head Expert group Low-Level Radioactivity Measurements SCK CEN, Belgium
10:30 - 10:45	9th OBT workshop general information Hilde Loots – SCK CEN, Belgium
10:45 - 11:15	Introduction of OBT WG Nicolas Baglan – ASN/DEU, France
11:15 - 11:30	In Memoriam of Catherine Cossonnet (Nicolas Baglan) Nicolas Baglan – ASN/DEU, France
11:30 - 12:00u	P1. Current Methodology for determining dose from OBT to marine biota Megan Cook – IAEA, Monaco
12:00 - 13:30	Lunch
13:30 - 14:00	P2. Improvement and evaluation of the combustion method for organically bound tritium analysis Haruka Kuwata – Hiroasaki University, Japan
14:00 - 14:30	P3. A Mechanistic model of tritium exchange in plants Elizabeth Priebe – Canadian Nuclear Laboratories, Canada
14:30 - 15:00	Coffee/tea Visit sponsor's exhibition (Mirion/Hidex – Eraly – Raddec)
15:00 - 15:30	P4. Fish rearing in ALPS treated water and tritium transfer from seawater into fish OBT. Toshihiro Shibata – Tokyo Electric Power Company Holdings, Japan
15:30-16:00	P5. Validation of Organically bond tritium and C-14 analysis on environment samples using the Eraly pyrooxidizer furnace Damien Braekers – IRE, Belgium
16:00 - 16:30	P6. Raddec International developments Richard Marsh – RADDEC, UK
16:30 - 17:00	All participants - Conclusions of the day Moderator: Sang Bog Kim - IAEA, Austria

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Thursday, May 11 th 2023	
8:30-10:00	Scientific Committee of OBT International Group Discussion of achievements and future work for OBT International Group
	Chair: Nicolas Baglan - ASN/DEU, France
10:00-10:30	Welcome coffee Visit sponsor's exhibition (Mirion/Hidex – Eraly – Raddec)
10:30-11:00	P7. An Overview of Tritium Analysis at the CNSC Laboratory Nadereh St.-Amant – Canadian Nuclear Safety Commission, Canada
11:00- 11:30	P8. Organically Bound tritium Monitoring Program at Cernavoda Nuclear Power Plant Simona Zaharov – Cernavoda Nuclear Power Plant, Romania
11:30-12:00u	P9. Application of the ³He ingrowth mass spectrometric methodology for the quantification of low-level Organically Bound Tritium (OBT) in fish samples Sang Bog Kim – IAEA, Austria
12:00-13:30	Lunch
	Chair: Nadereh St.-Amant – Canadian Nuclear Safety Commission, Canada
13:30- 14:00	P10. OBT analysis through the lens of combined uncertainty Alexi Shkarupin – Canadian Nuclear Laboratories, Canada
14:00-14:30	P11. Feedback on OBT exercises organized for environmental monitoring labs - approval by the French Nuclear Safety Authority Nicolas Baglan – ASN/DEU, France
14:30-15:00	Coffee/tea Visit sponsor's exhibition (Mirion/Hidex – Eraly – Raddec)
15:00-15:30	P12. The 6th Organically bound tritium Inter-Laboratory Exercise Simona Zaharov – Cernavoda Nuclear Power Plant, Romania
15:30-16:00	P13. Getting the most out of your Proficiency Test results Freddy Verrezen – SCK CEN, Belgium
16:00-16:30	All participants - Conclusions of the day Moderator: Nadereh St.-Amant – Canadian Nuclear Safety Commission, Canada
18:00	Dinner

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Agenda

Friday, May 12 th 2023	
8:30 - 9:00	Welcome coffee
	Chair: Simona Zaharov - Cernavoda Nuclear Power Plant, Romania
9:00 - 9:30	P14. OBT Correlation with Environmental Tritium Level During Vegetation Period at ICSI Irina Vagner – National R&D Institute for Cryogenics and Isotopic Technologies, Romania
9:30 - 10:00	P15. Problems with storage of samples for OBT analysis Andreja Sironic – Ruder Boskovic Institute, Croatia
10:00 - 10:30	P16. Extraction Tritium Diao Diallo – ERALY, France
10:30 - 11:00u	Coffee/tea Visit sponsor's exhibition (Mirion/Hidex – Eraly – Raddec)
11:00 - 11:30	P17. Difficulties in homogenizing a sludge sample Hilde Loots – SCK CEN, Belgium
11:30 - 12:00	All participants <ul style="list-style-type: none">discussion of future work:<ul style="list-style-type: none">next exercise and workshopOBT modelling and other topicsFinal discussions & conclusions of the workshop Moderator: Simona Zaharov - Cernavoda Nuclear Power Plant, Romania
12:00 - 13:30	Lunch
14:00	Cultural Beer tour

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Sponsors

