

The International Society for Sample Environment

A bottom-up approach to collaboration

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ISSSE Member facilities



ISSE Corporate members

- 16 corporate members
- Opportunity to showcase their products
- Direct exchange with institutional members

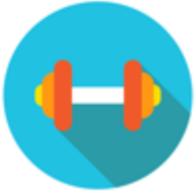
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ISSSE Our Mission



- strengthen the position of sample environment technologies at scattering facilities.



- International representation in social, scientific, industrial and political forums



- promote communication and information exchange



- foster the training of young technicians, engineers and researchers

ISSE International Workshops

- Biannual workshops
- News from the member facilities
- Latest developments in sample environment
- Scientific motivators and trends
- 1st Workshop in 1999
- 12 (+ 1 virtual) workshops so far



13th International Workshop on Sample Environment
2026 in Tennessee, USA
Hosted by ORNL



ISSE Training Schools

- Biannual schools
- Each school hosted by a facility
- Lectures and hands-on practical
- Fosters exchange of technical staff
- Cross-facility training



Dates	ISSE Training Schools	Organiser	Location
22 - 27 Oct. 2023	4th International Training School on Sample Environment at Scattering Facilities	J-PARC	Tokai, Japan
28. Oct. - 1. Nov. 2019	3rd International Training School on Sample Environment at Scattering Facilities	HZB	Berlin, Germany
13 - 17 Nov. 2017	2nd International Training School on Sample Environment at Scattering Facilities	NCNR	Gaithersburg, MD, USA
23 - 27 Feb. 2015	1st International Training School on Sample Environment at Neutron Scattering Facilities	ISIS	ISIS, Oxfordshire, UK

ISSSE Committees

- ideal platform to exchange topics of common interest
- shape the direction of future developments
- oversee the activities within our community

1 representative from each facility members

Sample Environment Communication Protocol

development of the standard communication protocol for sample environment equipment SECoP.

<https://sampleenvironment.org/committees/secop/>

Soft Matter Sample Environment Equipment

sample environment requirements from the soft matter and life science communities.

development of new SE and improve cross facility access.



Helium Stewardship

develop and promote a monitoring system for liquid helium recovery

Sample Environment Database

discuss a common database on the available SE Equipment and material properties

- Direct exchange between our members
- Secure channel of exchange – only accessible to registered members
- Very useful for the “on floor” business
- Possibility to gather information and experience from other facilities



Forum	Topic	Post
Gas Sorption	4	13
Low Temperature	56	319
High Temperature	13	64
High Pressure	10	45
High Magnetic Field	17	84
High Electric Field	2	7
Soft Matter Equipment	9	34
Electronics	3	7
Software	5	25
Other Topics	26	150



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<https://sampleenvironment.org/>