



Final Open Workshop of the SEAKNOT Project Shaping Future Severe Accident Research

September 30, 2026
CIEMAT Madrid, Spain and Online

The **EURATOM SEAKNOT project - SEvere Accident Research and KNOWledge Management for LWRs** - focuses on preserving, improving, and exploiting knowledge related to severe accidents (SA) in nuclear technologies. Its overarching goal is to support the future of nuclear safety by consolidating existing knowledge, identifying research needs, strengthening experimental and modelling capabilities, and promoting knowledge transfer to the next generation of experts.

As the project reaches its final stage, this Final Open Workshop will bring together leading researchers, industry experts, international organizations, European platforms, and stakeholders to present and discuss the project's final results and their impact on the future of SA research in Europe.

This dynamic event will spotlight how SEAKNOT outcomes can drive innovation, collaboration, and strategic direction in SA research, including education and training aspects. It will also provide a platform for researchers, industry professionals, and stakeholders to exchange ideas on future research strategies towards an **European roadmap for Severe Accident research**.

Main Workshop Focus

The workshop will provide deep insights into the major outcomes of the project and the role of SEAKNOT results in shaping future European cooperation, research priorities, and education and training activities in the SA domain, including:

- The consolidated **Phenomena Identification and Ranking Table (PIRT)** for SA, supporting the identification of safety-significant phenomena and knowledge gaps;
- The **Validation Database Directory (VADD)**, designed to preserve and facilitate access to experimental data for SA code validation and mitigation studies;
- The **Severe Accident Infrastructure NETwork (SAINET)**, mapping European SA experimental facilities and supporting future collaboration in research;
- The achievements in **Knowledge and Know-how Transfer in the SA field (KNOS)**, mainly through the Severe Accident Phenomenological SAP courses, the SA Summer Camp SASCamp, and the ERMSAR Conferences;
- The **Severe Accident Research Roadmap**, which integrates PIRT outcomes, available SA facilities, and needs related to the VADD.

Who Will Benefit?

- Experts in SA research and nuclear safety;
- Researchers and engineers working on SA modelling, experiments, code validation, and mitigation strategies;
- Representatives from IAEA and OECD/NEA, key platforms for future SA collaboration;
- SNETP/NUGENIA TA2 members, those directly shaping and benefiting from SEAKNOT outcomes;
- Young researchers and professionals interested in the future of SA research.

Registration form:

<https://forms.office.com/e/sQXvYQXELs>

Further information is available on the SEAKNOT project website: <https://seaknot-project.eu/>

Agenda of the Workshop

Time	Session
09:00 – 09:30	1. Welcome and Opening Remarks (CIEMAT). Welcome by the host organization and the SEAKNOT Coordination Team. Introduction to the objectives of the Workshop. Brief overview of the SEAKNOT project and its role in supporting future nuclear safety research.
09:30 – 10:15	2. SEAKNOT Final Outcomes: From Knowledge Management to Future Research Strategy (CIEMAT). Presentation of the overall achievements of the project. Discussion of how SEAKNOT results support innovation, collaboration, and strategic planning in SA. Q&A.
10:15 – 10:45	Coffee Break
10:45 – 11:30	3. Severe Accident PIRT: Identifying Knowledge Gaps and Research Priorities (CIEMAT). Presentation of the consolidated SA PIRT outcomes and the methodology used for it. Identification of safety-significant phenomena and knowledge gaps in the entire severe accident domain. Q&A.
11:30 – 12:15	4. Validation Database Directory: Preserving Experimental Knowledge for SA Code Validation (BT). Presentation of the VADD content, access, and future usability. Role of experimental data in SA modelling, code assessment, and mitigation studies. Links between VADD, PIRT outcomes, and future research needs. Q&A.
12:15 – 13:00	5. SAINET: European SA Experimental Infrastructure Network (CEA). Overview of the mapping of European facilities involved in SA research. Identification of infrastructure capabilities and future facility needs. Opportunities for strengthening collaboration across Europe. Q&A.
13:00 – 14:00	Lunch Break
14:00 – 14:40	6. Severe Accident Research Roadmap (CIEMAT). Presentation of the SEAKNOT roadmap for SA research. Integration of PIRT outcomes, SA facilities, experimental data needs, and strategic priorities. Perspectives for the next decade of European SA research.
14:40 – 15:30	7. Knowledge and Know-how Transfer in SA Research (UNIFI). Main results of C&D actions – UNIFI. SEAKNOT achievements is strengthening skills and knowledge transfer to the next generation of SA experts: SAP courses and SASCamp - CEA, ERMSAR Conferences - KIT, SA textbook – JSI, mobility actions – UNIFI, CIEMAT, KIT.
15:30 – 16:15	8. Open Discussion with Stakeholders Interactive discussion with project partners, researchers, industry professionals, European platforms, and international stakeholders. Exchange of views on future research strategies and collaboration towards a European SA roadmap.
16:15 – 16:30	9. Closing Remarks Summary of the main workshop outcomes. Final messages from the SEAKNOT Coordination Team. Next steps for future cooperation in SA research and education.

We look forward to your participation and valuable contribution.

Let us work together to shape the future of Severe Accident research.

The open Workshop will also be accessible remotely



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