

# *Preliminary Programme*

## **SMaRRt 2026**

**SMR-AMR and R&D: Innovating Together**

22 April 2026

Leiden, The Netherlands



EUROPEAN NUCLEAR SOCIETY



## **Wednesday 22 April 2026**

### **SMR-AMR and R&D: Innovating Together – SMarRt 2026**

**9am – 10.30am    Opening Session – Clearing the hurdles: Safety, Licensing, and Support Frameworks for SMR Deployment**

Chair: S. Monti, European Nuclear Society

**European Commission SMR IA: Present Status and Key Issues**

B. Salha, SNETP

**Critical Challenges for Innovative Reactor Technologies**

F. Reitsma, IAEA

**Rolls-Royce – Towards reactor licensing: progress and challenges**

S. McFarlane Smith (tbc)

**Advancing U.S. Reactor Demonstrations: An Overview of the 2025–2026 Pilot Program**

N.N. , DOE (tbc)

**10.30am – 11.00am            Coffee Break**

**11.00am – 12.30pm            Joining Competences to Overcome Critical Challenges in Fuel Development (SMaRRt)**

Chair:

**Overview on developments for advanced fuel, with a specific focus on HTR project development**

O. Tougait, Framatome

**Progress and timeline for Molten salt fuel manufacturing and reprocessing**

E. CAPELLI, ORANO

**Thorizon's developments related to fuel development**

S. de Groot, Thorizon

**Eagle 300: recent advances in fuel development**

M. Frignani, Ansaldo

Each presenter will give a presentation of 10 minutes, followed by a Panel Discussion with all presenters.

**12.30pm – 1.30pm**                      **Lunch**

**1.30pm – 2.50pm**                      **Addressing Reactor Design and Technology Challenges (SMaRRt)**

Chair:

**Industrializing sodium-cooled fast reactors for a carbon-free future**

C. Bisor, HEXANA, France

**Licensing of a novel nuclear test facility for the safe testing of new reactor concepts – A project by Copenhagen Atomics and PSI**

M. Streit, PSI, Switzerland

**LEANDREA – Advancing the design for timely realization**

M. Greco, SCK-CEN, Belgium

**Advances in Lead Cooled Reactor Safety, Materials, and Instrumentation (tbc)**

N.N. Newcleo

**2.50pm – 3.20pm**                      **Coffee Break**

**3:20pm – 5.20pm**                      **R&D Support for Testing and Safety Assessment (SMaRRt)**

Chair:

Advancing MSR Technology: The Copenhagen Atomics-PSI Molten Salt Experiment – Progress Since RRFM 2025	Pavel, P. (1); Streit, M. (1); Stubsgaard, A. (2); Swalwell, G. (2); Chierici, L. (2); Pautz, A. (1) 1 – Paul Scherrer Institut, Switzerland 2 – Copenhagen Atomics A/S, Switzerland
HITEC – In-pile Creep evaluation for materials of advanced reactors	Laot, M. (1); Hania, R. (1); Naziris, K. (1); Fedorov, S. (1); Elenbaas, J. (1); Rossouw, D. (1); Kronenberg, T. (1) 1 – NRG PALLAS, Netherlands
Fuel Irradiation Testing Capabilities at BR2 for Small Modular Reactors	Boer, B. (1); Bosch, R.-W. (1); Bonny, G. (1); Verwerft, M. (1) 1 – SCK CEN (Belgian Nuclear Research Centre), Belgium

Impact of Corrosion and Estimation of Effective Corrosion Depth in 15-15Ti Cladding Tubes Using the Small Punch Test Technique	Holmstrom, S. (1); Simonovski, I. (2); Nindiyasari, F. (3) 1 - SCKCEN, Belgium 2 - JRC, Joint Research Centre, Netherlands 3 - NRG PALLAS, Netherlands
Analysis and preparation of the methodology for assessing the placement of small and medium reactors in the Czech Republic conditions	Novak, O. (1); Kozic, J. (1); Frantova, M. (1); Stemberk, P. (1); Rastislav, M. (1); Zemanova, A. (1); Vojackova, J. (2); Hroch, T. (3); Jelínek, J. (3) 1 - Czech Technical University in Prague, Czech Republic 2 - Brno University of Technology, Czech Republic 3 - Czech Geological Survey, Czech Republic
A Comparative Analysis of Thermal Design Predictions and In-Pile Temperature Measurements for High-Temperature Neutron Irradiation Testing of Materials in HANARO	Kim, J. W. (1); Yang, S. W. (1); Park, J. (1); Choo, K. N. (1) 1 - Korea Atomic Energy Research Institute, Korea, Republic of

### SMaRRt – Poster

Irradiation Performance of Ni-base Structural Alloys for Applications in Molten Salt Nuclear Reactors	Naziris, K. (1); Marques Pereira, V. (1); Hania, R. (1); Rossouw, D. (1) 1 - NRG PALLAS, Netherlands
Pre-Feasibility Study of Uranium Silicide-Aluminium Dispersion Fuel as an Alternative Fuel in WWR-K Research Reactor	Sairanbayev, D. (1); Shaimerdenov, A. (1); Gizatulin, S. (1) 1 - Institute of Nuclear Physics, Kazakhstan

**7.30pm – 0.00am      Conference Dinner**

*Important – Participation is subject to the purchase of a conference dinner ticket.*



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