



NUCLEAR EDUCATION AND TRAINING

2-4 March 2026

Fondation Universitaire, Brussels, Belgium

PROGRAMME



EUROPEAN NUCLEAR SOCIETY

Monday, 2 March 2026

13:00 – 15:00 Opening Plenary

Part 1: Skills for a Thriving European Nuclear Workforce

The **European Commission's Joint Research Centre (JRC)** will present the latest workforce demand projections and skills landscape and give an overview on their programmes

Part 2: Building Skills Through International and Industry Programmes

An open dialogue on building skills through cooperation at multiple levels co-moderated by Gabriel Pavel, ENEN (ENEN2plus) and Jan van der Lee, I2EN

With

- **Pedro Dieguez Porras**, IAEA
- **N.N.**, OECD/NEA
- **Jerry Hopwood**, UNENE

15:00 – 15:30 Coffee Break

15:30 – 17:30 Parallel Sessions

Session 1: Capacity building – skills, competences, qualifications

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| Skills4Nuclear – a collaborative framework to address skills and workforce shortages | N.N. 1– Skills4nuclear |
| Meeting the nuclear industry skills challenge – Framatome Academy | Carbonnieres, C. (1); Maggio, C. (1) 1 – Framatome, France |
| Assuring Quality – the NI Academic, Company Endorsement & Training Provider Recognition Programmes | Hearing, C. (1) 1 – The Nuclear Institute UK |
| Training on the Principles of Nuclear Plant Operations Using the GPWR Simulator for Workforce Development | Aliperio, M. G. (1); Lim, J. W. (1); Kishimoto, R. (1) 1 – Department of Science and Technology – Philippine Nuclear Research Institute, Philippines |
| Safeguards Awareness for Engineers: Integrating Non-Proliferation into Technical Training | Van Geluwe, O. (1) 1 – IYNC – Leaders 4 Nuclear, France |

Session 2: AI for learning, teaching, and student assessment & Innovative pedagogical tools and methods

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| AI-guided Onboarding and Expert Digital Twins for Nuclear Decommissioning | Kopinski, T. (1) 1 - University of Applied Sciences South Westphalia, Germany |
| Artificial Intelligence as an intergenerational Bridge Between Nuclear Generations | Wastin, F. (1); Manna, G. (1) 1 - European Commission-Joint Research Centre, Petten, Netherlands |
| Digital and AI-supported solutions for the safe and efficient decommissioning of nuclear facilities. The 'K.I.S.S.' research and development project. | Kettler, J. (1); Dyrna, J. (2); Köhler, T. (2); Richter, T. (2); Seher, H. (3); Mönig, H. (3); Dierschow, F. (3); Herb, J. (3); Dewald, M. (3); Spanier, R. (3); Britz, S. (3); Imielski, P. (3); Lambertus, C. (3); Modolo, G. (4); Niemeyer, I. (4); Aymanns, K. (4); Laumen, L. (4); Welden, A. (4); Güner, B. (5); Pickert, A. (5); Hoerborn, G. (5); Malirsch, T. (5); Anthofer, A. (6); Koslowski, D. (6); Grauel, B. (6); Nester, A. (6); Göpel, C. (6); Hammoud, R. (6); Löwig, M. (6); Möllerke, F. (7); Wiesel, H. (7); Wippler, D. (1); Kiss, K. (1) 1 - actimondo, Germany 2 - Technische Universität Dresden - Center for Open Digital Innovation and Participation, Germany 3 - Gesellschaft für Anlagen- und Reaktorsicherheit (GRS), Germany 4 - Forschungszentrum Jülich GmbH (Institute of Fusion Energy and Nuclear Waste Management (iFN)), Germany 5 - F.I.R. an der RWTH Aachen, Germany 6 - Dornier Hinneburg, Germany 7 - Advanced Nuclear Fuels, Germany |
| Innovative knowledge transfer strategies for Generation Z in the nuclear industry | Moellerke, F. (1); Wiesel, H. (2) 1 - Advanced Nuclear Fuels GmbH, Germany 2 - Framatome GmbH, Germany |
| Strengthening University- Nuclear Industry Collaboration in Ukraine: Towards a Joint E-Learning Platform | Pugach, S. (1); Novakivskyi, Y. (2); Klevtsov, S. (2) 1 - National Science Center Kharkiv Institute of Physics and Technology, Ukraine 2 - National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Ukraine |
| Using Experimental Flocculation Research as a Practical Training Method for Developing Competence in Nuclear Wastewater Treatment. | Ojur, J. (1) 1 - IAEA MSCP , Austria |

17:30 – 18:30 Poster Session

18:30 Evening Reception

Tuesday, 3 March 2026

Securing the workforce of tomorrow: Talent Attraction, Skills Recognition and Career Development – a Symposium

9:00 – 10:30 Industry needs, Talent Availability and Training Pathways

This session will:

- Explore realities of today's talent market with **Callum Thomas (CEO, Thomas Thor)**
- Provide a view from early career professionals (**ENS Young Generation**)
- Conclude with a **panel discussion** featuring industry and HR leaders:
 - **Camilla Fiedler-Blackhammar**, Vattenfall Generation, Sweden
 - **Tobias Unfried**, NUKEM Technologies, Germany
 - **Violaine Chalon Roux/ Cecile Maggio**, Framatome, France

10:00 – 10:30 Coffee Break

10:30 – 12:00 Attracting & Developing the Nuclear Workforce

- The Nuclear Academy – Developing Skills for Energy Innovation and Medical Leadership: **Robert Beekveldt, Nuclear Academy, Netherlands**
- Attracting the Workforce Needed for Nuclear's Future: **Soazig Drevillon, UMN, France**
- Developing Nuclear Talent for a Skilled and Sustainable Workforce: **Andrew McIvor, NSAN (tbc)**
- Building Competence for Poland's Nuclear Future – Insights into Education and Training: **Pawel Gajda, Director of the Nuclear Energy Department, Ministry of Energy, Poland**

12:00 – 13:00 Lunch Break

13:00 – 14:30 Nuclearisation & Certification: Keys to Access and Mobility

- Standardising certification in international nuclear education: **Jan van der Lee, I2EN, France**
 - The Nuclear Professionalism Standard – A Common Benchmark for Competence, Responsibility, and CPD: **Cynthia Hearing, the Nuclear Institute, UK**
 - NewGen: a corporate high-level education journey into the nuclear field: **Michele Frignani, Ansaldo, Italy**
 - Skills for the nuclear sector: a view from the supply chain: **N.N., Bilfinger** (tbc)
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14:30 – 15:00 Coffee Break

15:00 – 16:30 Parallel Sessions

Session 1: From Training Offers to Skills Ecosystems

Connecting Thematic, Regional and European Communities of Practice for Nuclear VET, CPD and Workforce Sustainability – JRC Special Session

This JRC-led session explores how **Communities of Practice** can strengthen a coherent nuclear skills ecosystem, with **particular focus on Vocational Education and Training (VET)** and **Continuing Professional Development (CPD)**. Building on **lessons learned** from existing or emerging **anchor initiatives**—including **ELINDER**, regional skills communities, and the pan-European VET and CPD Community of Practice NUCLEATION—the session **examines complementarities and added value across levels**, as well as **national reference experiences**. The session aims to **identify priority skills areas** and explore **pathways toward concrete commitments** and **pilot actions**.

Session 2: CrossYGN Workshop – Evolving Skills and Learning Tools for a Changing Nuclear Workforce

This workshop will bring the perspective of the **Cross-YGN initiative** (ENS Young Generation Network, Fusenet Student Council, International Radiation Protection-YGN, EFOMP Early Careers Group) to NESTet 2026 by exploring **how nuclear education, training, and early-career development have evolved over the past decade** – and what these changes mean for the future workforce. This workshop offers distinct added value: **a first-hand, evidence-based insight into how young professionals from multiple nuclear fields** (engineering, medical physics, fusion, radiation protection) **experience today's learning ecosystems**, what has changed compared to “previous generations,” and how the sector can adapt to remain attractive and effective.

Wednesday, 4 March 2026

9:00 – 10:40 Parallel Sessions

Session 1: Capacity building – skills, competences, qualifications

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| Circular Competences: Treating the European Energy Workforce as a Renewable Resource | Wastin, F. (1); Eriksen, B. (1); Tanarro colodron, J. (1) 1 – European Commission–Joint Research Centre, Petten, Netherlands |
| Competence building in the European Partnership on Radioactive Waste Management (EURAD-2) | Belmans, N. (1); Coeck, M. (1); Llorente, C. (2); Manzano, J. (2); O'Neill, N. (3) 1 – Belgian Nuclear Research Centre SCK CEN, Belgium 2 – Centre for Energy, Environmental and Technological Research CIEMAT, Spain 3 – Amphos21, Spain |
| Bridging gaps in nuclear skills capacity building: the role of the NEA Nuclear Education, Skills and Technology (NEST) Framework in shaping the next generation of nuclear experts | Abdelsalam, G. (1) 1 – OECD Nuclear Energy Agency (OECD/NEA), France |
| Building the future of nuclear education: the role of the NEA Global Forum for Nuclear Education in advancing nuclear education, science, technology, and policy | Abdelsalam, G. (1) 1 – OECD Nuclear Energy Agency (OECD/NEA), France |
| Empowering the Next Generation: Building Sustainable Networks for Early Career Professionals in Radiation Protection | Degenhardt, Ä. L. (1); Kunert, P. (1); Herzner, V. (2); Gill, S. (3); Love, N. (4); Abuhamed, J. (5); Stendardo, G. (6); Sennhenn, K. L. (7); John, W. A. (1); Subedi, P. (1) 1 – Federal Office for Radiation Protection BfS, Germany 2 – Department for Technical Radiation Protection, Austrian Agency for Health and Food Safety, Austria 3 – Leibniz Institute for Prevention Research and Epidemiology – BIPS, Germany 4 – Research Group Environmental Economics, Centre of Environmental Sciences, Hasselt University, Belgium 5 – Health Sciences Unit, Tampere University, Finland 6 – National Center for Innovative Technologies in Public Health, Italian National Institute of Health, Italy 7 – GSI Helmholtzzentrum für Schwerionenforschung GmbH, Germany |

Session 2: Best practices in nuclear education and training

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| SAP, the european Severe Accident Phenomenology short course: a 20-years success story | Piluso, P. (1); Herranz, L. E. (2); Paci, S. (3); Kljenak, I. (4) 1 - CEA, France 2 - CIEMAT, Spain 3 - Pisa University, Italy 4 - JSI, Slovenia |
| The European Master of Science in Nuclear Engineering: 20 years of an ENEN certification for mutual recognition of academic curricula in Nuclear Engineering | Ambrosini, W. (1); Tiselj, I. (2); Pavel, G. (3); Elorza Tenreiro, F. J. (4) 1 - Università di Pisa, Dipartimento di Ingegneria Civile e Industriale, Italy 2 - Reactor Engineering Division, Jožef Stefan Institute, Slovenia 3 - European Nuclear Education Network, Belgium 4 - Escuela Técnica Superior de Ingenieros de Minas y Energía, Universidad Politécnica de Madrid, Spain |
| ENEEP experience in education and training | Lüley, J. (1); Radulović, V. (1); Snoj, L. (2); Matoušková, J. (3); Salvini, A. (4); Vrban, B. (5) 1 - European Nuclear Experimental Educational Platform, Slovakia 2 - Jožef Stefan Institute, Slovenia 3 - Czech Technical University in Prague, Czech republic 4 - University of Pavia, Italy 5 - Slovak University of Technology in Bratislava, Slovakia |
| Promoting Nuclear Safety Culture Training through Digital Education and Lifelong Learning | Alonso Ramos, M. (1); Sánchez-Elvira Paniagua, Á. (1); Schoenfelder, C. (2); Wouters, P. (3); Mure, J.-M. (3); Volpert, A. (3); Zaslona, K. (4); Jaspers, R. J. E. (5); Feliz Murias, T. (1); Castro, M. (1) 1 - Universidad Nacional de Educación a Distancia (UNED), Spain 2 - Schoenfelder Training, Germany 3 - Fusion for Energy, Spain 4 - Amentum Clean Energy France, France 5 - Eindhoven University of Technology, Netherlands |
| FuseNet: Promoting and coordinating fusion education in Europe | Cruz, D. (1); Köhn-Seemann, A. (2) 1 - FuseNet, Netherlands 2 - Stuttgart University, Germany |

10:40 – 11:00 Coffee Break

11:00 – 12:20 Parallel Sessions

Session 1: Success stories in attracting, developing, and retaining talent

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| How to Achieve Sustainable Nuclear Education and Training – Examples of Success Stories from Chalmers University of Technology's Ecosystem | Demazière, C. (1) 1 – Chalmers University of Technology, Sweden |
| Career Events for Connecting Nuclear Engineering Students with Industry and Research | Magliocchi, A. (1); Colabufo, A. (1); Giusti, V. (2); Ambrosini, W. (2) 1 – Università di Pisa, Career Service, Italy 2 – Università di Pisa, Dipartimento di Ingegneria Civile e Industriale, Italy |
| Nuclear Work force Capacity Building on Canadian Prairies- Challenges and Opportunities | Rangacharyulu, C. (1) 1 – Department of Physics and Engineering Physics, University of Saskatchewan, Canada |
| The Role of Civil Society Organizations in Supporting Youth and Professionals: A Case Study of the Ukrainian Nuclear Society's Contribution to Talent Development and Retention in the Nuclear Sector | Lylak, K. (1); Lavrenov, D. (1) 1 – Ukrainian Nuclear Society, Ukraine |

Session 2: Evolving workforce needs, Leadership Development & Continuing Professional Development Frameworks

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| Competence Development for Project Engineers to serve as Program and Project Leaders in the Nuclear Industry | Altfeld, H.-H. (1) 1 – Novo Artifact Consulting, France |
| Launch of the Management in Nuclear masters program at STU | Čerba, Š. (1); Šagátová, A. (1); Hajduová, Z. (2); Štetka, P. (2); Vrban, B. (1) 1 – Slovak University of Technology in Bratislava, Slovakia 2 – Bratislava University of Economy and Business, Slovakia |
| Introducing a Company-specific Competence Certification Scheme for Companies of the Nuclear Industry | Altfeld, H.-H. (1) 1 – Novo Artifact Consulting, France |
| THE NURECAB SURVEY: THE MISMATCH BETWEEN NUCLEAR EDUCATION AND SECTORAL NEEDS IN UKRAINE | Zhurenko, V. (1); Pugach, S. (1); Kadenko, I. (2); Sakhno, N. (2); Kravchenko, V. (3); Klevtsov, S. (4); Kuznetsov, P. (5); Lavrenov, D. (6); Piliuhina, K. (7) 1 – National Science Center Kharkiv Institute of Physics and Technology, Ukraine 2 – Taras Shevchenko National University of Kyiv, Ukraine 3 – Odesa Polytechnic National University, Ukraine 4 – National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Ukraine 5 – V. N. Karazin Kharkiv National University, Ukraine 6 – Ukrainian Nuclear Society, Ukraine 7 – European Nuclear Education Network, Ukraine |

Poster

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| Youth in Nuclear: Attraction, Retention, and Leadership Pathways | Van Geluwe, O. (1) 1 - Vinci Energies Belgium, Belgium |
| Attracting, developing, and retaining nuclear talents during the full scale invasion in Ukraine (case of the School of Physics and Technology at V.N. Karazin Kharkiv National University) | Kuznietsov, P. (1); Afanasieva, I. (1) 1 - V.N. Karazin Kharkiv National University, Ukraine |
| Knowledge Continuity in Nuclear Decommissioning: Leveraging Private AI for Intergenerational Knowledge Transfer | Wastin, F. (1) 1 - European Commission-Joint Research Centre, Petten, Netherlands |
| An experience of Taras Shevchenko National University of Kyiv in implementing the research-driven and practice-based studying approach in nuclear engineering | Kadenko, I. (1); Kharytonov, O. (1); Kutsenko, O. (1); Sakhno, N. (2) 1 - Taras Shevchenko National University of Kyiv, Ukraine 2 - International Nuclear Safety Center of Ukraine of Taras Shevchenko National University of Kyiv, Ukraine |
| Application of Machine Learning in Nuclear Education at Taras Shevchenko National University of Kyiv | Sakhno, N. (1); Yermolenko, R. (2); Gogota, O. (2); Kadenko, I. (2); Spivak, S. (2) 1 - International Nuclear Safety Center of Ukraine of Taras Shevchenko National University of Kyiv, Ukraine 2 - Taras Shevchenko National University of Kyiv, Ukraine |
| Youth-Led Nuclear Energy Research: A Bangladeshi High School Student's Journey from Classroom to International Publication | Mahdi, M. (1) 1 - Open Science Research Initiative Bangladesh, Bangladesh |
| Teacher-Based Capacity Building for the National Nuclear Workforce: An Innovative Nuclear STEM Education Program in Turkiye | Bulut , S. (1); Akdur, T. E. (1); Kurt , E. (1) 1 - https://www.tenmak.gov.tr/ , Turkey |
| Two EU projects carried out at the Police Academy in Prague, addressing some current problems in ensuring adequate protection against CBRN agents | Sabol, J. (1); Dlouhy, D. (1) 1 - Police Academy of the Czech Republic in Prague, Czech republic |
| Leadership-Driven Technology Transfer and Innovation in the Nuclear Sector | Akyildiz, S. (1) 1 - Turkish Energy, Nuclear and Mining Research Agency , Turkey |
| Integrating Multi-Technical Competences into Nuclear Analytical Training: A Case Study on Gamma and Neutron Activation Specialization | Badague, A. (1); Bounouira, H. (2); Amsil, H. (2); Aarab, I. (2); Chakir, E. (1) 1 - ibn Tofail univesity, Morocco 2 - CNESTEN, Morocco |
| The story of UAE Nuclear program: from the oilfield to the nuclear power | Altamimi, H. (1) 1 - FANR, United Arab Emirates |
| Collective Intelligence for Research in Energy - an Open-Source Approach to drive Decision-making and Research with AI | Kopinski, T. (1) 1 - University of Applied Sciences South Westphalia, Germany |



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