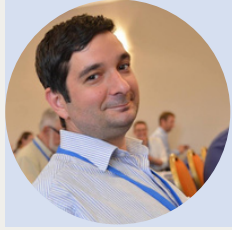


Dear partners and members,

A warm welcome to the 14th issue of our newsletter - 2024. We are grateful for a very productive year and as we wrap it up and prepare for an even better 2025, we want to share some news and updates on our activities and projects.

Meet ENEN's Implementation team members:



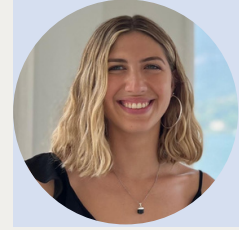
DR. GABRIEL LAZARO PAVEL

Executive Director



KATERYNA PILIUHINA

Programme Manager
Head of Nuclear Safeguards and security
direction



CAMILA BOIX

Project Manager

ENEN 8th General Assembly and Special Event 2024

Took place in 29th February - 1st March 2024

The General Assembly witnessed important changes:

A new President (Francisco Javier Elorza Tenreiro), Vice-President (Jana Kalivodova) and members of our Board of Directors have been elected. The new composition of the ENEN Board has been published on the ENEN website.



**FRANCISCO JAVIER
ELORZA TENREIRO**

President

A word from our new *president*:

Dear ENEN Members, Colleagues, and Friends,

Observing the rapid progression of 2024, I would like to reflect on the numerous milestones we have achieved, including ENEN's 20th Birthday in September 2023. These accomplishments mark significant progress and promise to shape our association's future. It is with great honour that I stepped into the role of President of the ENEN Association this March, eager to build on the solid foundation laid by my predecessors and foster an environment of collaboration and innovation.

As we progress through 2024, we are excited to actively participate in and contribute to the European Year of Skills. This initiative, launched by the European Commission, promotes skills development to match labour market needs, particularly in digital and green technologies. Numerous events and activities across Europe provide opportunities for engagement, learning and collaboration where ENEN has always its important role. Together, we will strengthen our network, advance our goals and make impactful contributions to the nuclear sector.

Thank you for your support and dedication. Let us move forward with confidence and a shared vision for a bright and prosperous future for ENEN.

Introducing Our **New Projects** kicked-off this year:



FOLLOW UP ON OUR PROJECTS

ENEN2plus: Building European Nuclear Competence through Continuous Advanced and Structured Education and Training Already more than 1000 people were supported under the mobility programme. Learn more about the project's initiatives at the latest Bulletin - [here](#).



SaTE: The 2nd edition of the Specializing Master in Nuclear Safeguards Programme is ongoing. Advanced Labs are taking place in October-December. Also, the 1st Edition of the Comprehensive Two-Week Blended Course on Nuclear Safeguards for extra-EU students took place in 2024. 2nd Edition of this course is planned in May-June 2025.



ECC-SMART: Joint European Canadian Chinese development of Small Modular Reactor Technology WP6 deliverables, highlighting 2023 workshops in Slovenia and Spain on reactor safety and materials science for SCW-SMR, have been successfully developed by ENEN. ENEN also hosted the Project Progress Meeting 3 in April 2024 in Brussels and supported implementation of the Post-Irradiation Examination (PIE) Workshop in Prague in August 2024.



FREDMANS: Fuel Recycle and Experimentally Demonstrated Manufacturing of Advanced Solutions for Safety ENEN manages the FREDMANS travel fund which have already covered 14 enthusiastic students. The "second FREDMANS training on nuclear fuel" will take place in January 2025 in Chalmers, Sweden. Check the news [here](#).



GO-VIKING: Gathering Expertise on Vibration Impact in Nuclear Power Generation - the project focuses on enhancing reactor safety, designing new concepts and sharing knowledge on flow-induced vibrations (FIV) in the nuclear sector. 1st Edition of Open Lecture on FIV exploring Numerical Approach took place in 2024 and is [available here](#). It's 2nd Edition on FIV Experimental Approach is planned for May 2025.



GRE@T PIONEER: GRE@T PIONEER: Graduate education alliance for teaching the physics and safety of nuclear reactors The course on "reactor transients, nuclear safety and uncertainty and sensitivity analysis" is currently collecting applications. The project is going to its end in 2024 however Chalmers University of Technology, Sweden, will continue with innovative nuclear education for post-graduate students and nuclear engineers initiated by the project. Check ENEN LinkedIn for updates!



OFFERR: European Platform For Accessing Nuclear R&D facilities OFFER provides financial support and grants access to key nuclear research infrastructures all over Europe. The project provides an access to nuclear research infrastructures in EU through the special set of calls. The proposal submission opened from the 3rd of April 2023 until the 28th of October 2025. The next cut-off date for project proposals (fast track and complex project) is 30 March 2025. ENEN provides a mobility support to the project via ENEN2plus Mobility fund. Check for [updates here](#).



SECURE: This year, the Strengthening the European Chain of sUpply for next generation medical RadionuclidEs project has been recognized by the European Economic and Social Committee (EESC) in its recent conclusions on ensuring the supply of medical radioisotopes. This acknowledgment highlights the importance of the efforts in securing a stable and reliable supply of medical radioisotopes, essential for diagnosing and treating conditions like cancer and cardiac diseases. Also, the latest project Plenary meeting hosted by the UK National Nuclear Laboratory was held in September, 2024.



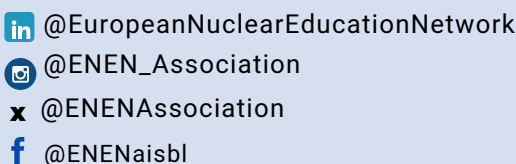
TANDEM: Small Modular Reactor for a European Safe and Decarbonized Energy Mix Summer School took place on June 24-28 2024, at Politecnico di Milano, Lecco campus, Lecco, Italy. The Summer School aims at providing a comprehensive understanding of the potential role that nuclear hybrid energy systems play in the ongoing energy transition. Check out [TANDEM website](#).



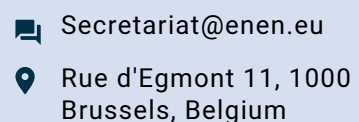
All the mentioned projects have received funding from the European Commission.

This publication reflects only the authors' view and the European Commission is not responsible for any use that may be made of the information it contains.

FOLLOW US



GET IN TOUCH



Our Series of Past-Student and Expert Webinars in Nuclear Energy of the academic year 2023-2024 is over

Thanking you all for contributing, attending and spreading knowledge about the webinars, we wish also to acknowledge the support of the European Nuclear Education Network in the frame of the ENEN2Plus project and the cooperation of the European Nuclear Society and of the University of Pisa in distributing the related information.



Special Edition of Nuclear Engineering and Design on celebrating the “20 Years of the European Nuclear Education Network (ENEN Association)” has been issued in 2024.

Over 20 papers exploring strategies for cultivating nuclear talent through education, knowledge management, and capacity-building, highlighting ENEN's key role in advancing nuclear education and training in Europe. You can [find the papers here](#).

The European Nuclear Education Network at the International Atomic Energy Agency (IAEA)

• July 2024

International Conference on Nuclear Knowledge Management and Human Resources Development ENEN hosted a Side-Event - THE NETWORK EFFECT: Enhancing the European Nuclear Competency through Collaboration.

• September 2024

68th IAEA General Conference - ENEN successfully contributed to two side events focused on achievements and further advancement of safeguards training and education and support of mobility to strengthen nuclear competences.

• October 2024

ENEN has proudly chaired sessions of the **International Conference on Small Modular Reactors** and their applications and the Technical Meeting “Education Networks: Collaboration in Nuclear Education – Good Practices and Perspectives”

• November 2024

ENEN's Executive Director was Chairing the Member States Session 1 - Europe/America of the IAEA's 23rd INPRO Dialogue Forum on **Nuclear Energy Innovations to support Net-Zero Transition**.



The 2nd Edition of the Specializing Master in Nuclear Safeguards: BASICS LABS MODULE and INDIVIDUAL ADVANCED LABS



Led by the European Nuclear Education Network as the Safeguards Training and Education Leader together with the Department of Energy – Politecnico di Milano, in collaboration with European Joint research center (EU JRC)

- ♦ **Basics Labs Module** (2 weeks): Held in Milan, students gained foundational knowledge and practical skills essential for understanding nuclear safeguards.
- ♦ **Individual Advanced Labs** (3 weeks): Conducted in specialized laboratories across Europe, participants further refined their expertise through intensive, hands-on training tailored to advanced topics.

This comprehensive approach prepares the next generation of professionals to uphold and innovate within the field of nuclear safeguards.

Part 2 of our Comprehensive Two-Week Blended Course on Nuclear Safeguards – Hands-on Training

📅 4-8 November 2024 📍 Geel/Mol, Belgium



This hands-on segment builds upon the online theoretical foundation provided by the ESARDA course (Part 1), engaging participants in real-world applications in nuclear safeguards and practical exercises at some of Europe's top nuclear facilities.

Overview:

- ♦ Throughout this intensive week, participants will explore core nuclear safeguards concepts like Design Information Verification (DIV), Non-Destructive Assay (NDA) methods and Safeguards by Design (SbD).
- ♦ Exercises such as inspection simulation in the BR1, safeguard system implementation, and practical assessments will offer participants a hands-on experience critical for safeguarding the nuclear fuel cycle.



FOLLOW UP ON OUR INITIATIVES



Funded by
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Two Training Course Programs: INTERNAL AND EXTERNAL COMMUNICATION, PUBLIC RELATIONS AND CRISIS COMMUNICATION

Funded by the European Union, this program aims to enhance communication proficiency and crisis management skills.

Some highlights:

- ◆ Communication Basics & Practicalities
- ◆ Leading with Excellence: Advancing Nuclear Safety Culture in the Modern Era
- ◆ ENEN Case: Best Practices with Sister Networks
- ◆ Radiation Protection Basics for Communicators
- ◆ Business Game on Leadership
- ◆ Inspiring the Next Generation: ENEN Experience
- ◆ Communication on Nuclear Safety Culture
- ◆ The Role of Nuclear Safety Culture in Operational Process
- ◆ The Strategic Use of Social Media

T&T

 **10-15 March 2024** 📍 **JRC, Geel, Belgium**

The LinkedIn Group for the project [Alumni Network](#) is ready, join if you are interested to exchange on radiation protection and emergency preparedness.

 **06-10 May 2024** 📍 **Singapore**

The Course included a Technical Visit to Singapore General Hospital (SGH). The participants explored the Department of Nuclear Medicine & Molecular Imaging that provides a comprehensive range of radionuclide imaging and therapy procedures.

SCHOOLS with support of

Several educational programmes to engage young people in nuclear took place in Europe, including: Hungary, Romania, Ukraine, and Slovakia, with more planned for next year, including Nuclear Schools and special youth contests!



Summer School on Nuclear Physics

Karazin Kharkiv University, Ukraine
August, 2024

Get a sneak peek of the workshop on our [YouTube Channel](#)



Workshop on SMR Technologies

University POLITEHNICA of Bucharest, Romania

September, 2024



Two ONE-WEEK International Summer Schools

Organized by the TANDEM project, developed by ESTA and supported by ENEN.

June, 2024



PLANNED for 2025 Nuclear Schools

for Secondary schools (Italy) and BSc and MSc (Hungary)





Introducing the HUB: Your Go-To E&T Platform

Under the ENEN2Plus project, the HUB serves as a comprehensive platform for Education and Training (E&T) and Vocational activities. Designed to strengthen our network, the HUB offers an integrated space dedicated to ENEN members. It enables the dissemination of E&T initiatives, sharing of resources, and promotion of open positions for researchers and graduates. Whether you're seeking opportunities or showcasing your activities, the HUB is here to connect and empower our community.


Visit the HUB today and make the most of this dynamic tool for collaboration and growth!



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-  @EuropeanNuclearEducationNetwork
-  @ENEN_Association
-  @ENENAssociation
-  @ENENaisbl

GET IN TOUCH

-  Secretariat@enen.eu
-  Rue d'Egmont 11, 1000 Brussels, Belgium

FOLLOW UP ON OUR INITIATIVES - Upcoming events



Funded by
the European Union



OPEN APPLICATIONS: ENEN PhD event & Prize 2025

It is our pleasure to announce the ENEN PhD event 2025 that will be held at the FISA-EURADWASTE conference 2025.

♥ Warsaw, Poland.

📅 12 to 16 May, 2025

We encourage you to participate!

🔗 PhD Event 2025



Key Dates to Remember:

- 📅 Application Deadline: January 14th, 2025
- ✉ Program Notification: February 7th, 2025 (via email)
- ✅ Confirmation of Attendance: February 21st, 2025
- 📝 Conference Registration: March 7th, 2025 (subject to conditions)
- 📅 Presentation Submission Deadline: April 25th, 2025
- 📅 Presentation Day: May 12th, 2025
- 🏆 Award Ceremony: May 14th, 2025


🔗 Learn more and apply here: <https://enen.eu/index.php/phd-events/phd-ep-year-2025-apply/>

🏆 Winners: ENEN PhD event & Prize 2024

- > **CAQUAS Aurore**, "The bathtub vortex: properties of the flow and gas entrainment"
- > **VÁZQUEZ-RODRÍGUEZ Carlos**, "Advanced implementation of the spray safety system into a 3D-GOTHIC PWR-W containment model and its impact on the hydrogen combustion risk"
- > **FUENTES SOLIS Noelia**, "Effect of Liquid Metal Environment on Nucleation and Propagation of Fatigue Cracks"
- > **PINTO Catarina Isabel Guilherme**, "3D cancer models for the theranostic evaluation of $^{64}\text{CuCl}_2$ "



OPEN APPLICATIONS: 4th European Nuclear Competition for Secondary Schools



📍 Bologna, Italy

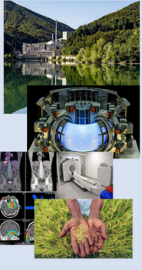
📅 14 to 18 July, 2025

4th EUROPEAN NUCLEAR COMPETITION FOR SECONDARY SCHOOLS

Bologna, Italy – 14-18 July 2025

Participants
Pupils enrolled in secondary schools in European States. Each Team consists of **two pupils and one teacher**.

How to participate
Form a team of with a classmate and a teacher. Create a 3 minutes video (maximum 4 minutes) introducing a specific nuclear application (e.g. energy, radiation protection, medicine, radioactive waste, etc.).



Awards
Significant monetary awards will be granted at the competition.
In-person participation in the nuclear science camp for 15 finalist teams of the video competition.

Key Dates to Remember:

- 📅 Video Submission Deadline: March 31st, 2025
- ✅ Nomination of 15 finalist teams: April 15th, 2025
- ✉ Contact: NUCLEAR.COMPETITION@ENEA.IT

👤 Who can participate?

Teams of 2 students + 1 teacher from any secondary school in Europe.

🔗 Learn more and apply here: <https://secondaryschoolcomp2025.enen.bme.hu/registration/>

🔗 Competition 2025



🌟 Season's Greetings! 🌟

As the year draws to a close, we want to extend our heartfelt thanks for your support and dedication to advancing nuclear education and collaboration. May this holiday season bring you joy, peace, and moments of reflection, and may the new year be filled with success, innovation, and inspiring opportunities.

Here's to another year of working together to shape a brighter future!

Warm wishes,

The ENEN Team



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GET IN TOUCH

- ✉ Secretariat@enen.eu
- 📍 Rue d'Egmont 11, 1000 Brussels, Belgium