European Nuclear Education Network Association

Prof. Leon Cizelj, Prof. Filip Tuomisto
and Pedro Diéguez Porras

President, Vice President
and Secretary General of the ENEN Association
CREATION

The European Nuclear Education Network, ENEN Association, is an Association established as an international non-profit association under the French law of 1901, on 22 September 2003, as a result of the “ENEN project” funded by the European Commission.

At the moment the ENEN headquarters is being transferred to Brussels, Belgium.
OBJECTIVES

The main objective is the **preservation** and further **development** of expertise in the nuclear fields by higher Education & Training:

- Promote and further develop the **collaboration** in nuclear education and training of students, researchers and professionals
- Ensure the **quality** of nuclear education and training
- Increase the **attractiveness** for engagement in the nuclear fields for students, researchers and professionals
- Promote **life-long learning** and career development at post-graduate or equivalent level
“The Council hopes that, with the help of the EU, ENEN and its members will continue to develop the coordination of nuclear education and training in Europe.

The Council welcomes the existence within the European Union of coordinated teaching and training leading to qualifications in the nuclear field, provided notably by the ENEN”.

December 1-2, 2008
ENEN Structure

Board of Governors of ENEN for 2017-2018:

**President**

Prof. Leon Cizelj
Prof. Filip Tuomisto

President

Prof. Behrooz Bazargan-Sabet
Ms. Veronique Decobert
Prof. Pascal Anzieu
Prof. Joerg Starflinger

Vice President

Dr. Michèle Coeck
Dr. John Roberts
Dr. Tzany Kokalova Wheldon

Member of the Board

President

Université de Lorraine
Westinghouse, Belgium
CEA-INSTN, France
SCK-CEN, Belgium
University of Manchester, United Kingdom
University of Birmingham, United Kingdom
Universitaet Stuttgart, Germany

SECRETARIAT

Mr. Pedro Dieguez Porras  Secretary General
Mr. Thierry Desaleux  Treasurer
ENEN General Assembly

EVERY YEAR, FIRST FRIDAY IN MARCH

In 2016, the 14th ENEN General Assembly was hosted by the EC JRC-IRMM, in Geel, Belgium

In 2017, the 15th ENEN General Assembly was hosted by Manchester University, in Manchester, United Kingdom
ENEN Members in March 2017

The following European institutions are members of ENEN with voting rights at the General Assembly:

<table>
<thead>
<tr>
<th>Number</th>
<th>Institution</th>
<th>City</th>
<th>Country</th>
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<tbody>
<tr>
<td>1</td>
<td>Atominstitut der Oesterreichischen Universitaeten</td>
<td>Vienna</td>
<td>Austria</td>
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<td>2</td>
<td>Belgian Nuclear Research Centre</td>
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<td>28</td>
<td>Budapest University of Technology and Economics</td>
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<td>Hungary</td>
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</table>
ENEN Members in March 2017

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<table>
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<th>City</th>
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<td>29</td>
<td>Consorzio Interuniversitario per la Ricerca Tecnologica Nucleare CIRTN</td>
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<td>Cardiff University</td>
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ENEN Members in March 2017

The following institutions from outside Europe are considered ENEN Member, without voting rights at the General Assembly, by concluding a Memorandum of Understanding:

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<td>Rosatom - Central Inst. for Continuing Education and Training</td>
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<td>57</td>
<td>National Research Nuclear University &quot;MEPhI&quot;</td>
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<td>66</td>
<td>World Federation of Science Journalists</td>
<td>Canada</td>
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</tbody>
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ENEN Members in 2017

66 Members from 25 Countries:
5 Research Centers, 7 Companies, 48 Universities and 6 international institutions
ENEN Members in 2017

66 Members from 25 Countries:
5 Research Centers, 7 Companies, 48 Universities and 6 international institutions
ENEN ACTIONS
EMSNE Certification

PhD Event & Prize
Competitive and friendly presentation of research in Nuclear fields.
12 Finalists, of which 3 winners

Signature of Practical Arrangements with IAEA

European Master of Science in Nuclear Engineering (EMSNE)
European Nuclear Education Network
September 2014 – Present

Certifications

Last event held at ENC 2016

February 12

General presentation ENEN
Master level: European MSc in Nuclear Engineering

- Established under the European Commission since 2005
- Quality and international mobility at international level
- Common reference curricula and mutual recognition among ENEN members
- Promotes and facilitates mobility of students and teachers

Certifications

European Master of Science in Nuclear Engineering (EMSNE)  
European Nuclear Education Network  
September 2014 – Present
Master level: European MSc in Nuclear Engineering

• Requirements
  – At least 5 years university education (3+2, 4+1, or 5).
  – Master thesis
  – At least 60 ECTS must be “purely nuclear”
  – 20 ECTS must be obtained from a “foreign” institution, member of the ENEN Association

• List of topics considered “purely nuclear”:
  – Reactor engineering
  – Reactor physics
  – Nuclear thermal hydraulics
  – Safety and reliability of nuclear facilities
  – Reactor engineering materials
  – Radiology and radiation protection
  – Nuclear fuel cycle and applied radiochemistry
EMSNE 2016 ceremony held during the 60th IAEA General Conference in Vienna, Austria, on 29 September 2016.
European Master in Innovation in Nuclear Energy (EMINE)

• In the frame work of the European Institute of Technology –KIC InnoEnergy.
• Duration: 120 ECTS, two years.
• Language: English
• Mobility track:
  – First year: at UPC (Barcelona, Spain) or KTH (Stockholm, Sweden)
  – Second year: at Grenoble INP (Grenoble, France) or Paris (France)
European Master in Innovation in Nuclear Energy (EMINE)

• 30 Scholarships / year

• For European students:
  • + 750 Euro/month, during 2 years= 18.000 euros
  • + Tuition fees: 8.000 euros for the two years
  • = Total: 26.000 euros

• For Non European students:
  • + 750 Euro/month, during 2 years= 18.000 euros
  • + Tuition fees: 16.000 euros for the two years
  • + Travel expenses: up to 1000 euros
  • = Total: 35.000 euros
European Master in Innovation in Nuclear Energy (EMINE)

• Academic partners: Grenoble INP, UPC-Barcelona-Tech, Paristech, KTH, CEA
• Industrial partners: EDF, ENDESA, AREVA, Vattenfall
• Students from: France, Spain, Sweden, USA, India, Lebanon, Argentina, Belgium, China, Egypt, Ghana, Indonesia, Italy, Mauritius, Ethiopia, Bangladesh, Montenegro, Norway, Germany, Poland, Turkey, Vietnam.

http://www.kic-innoenergy.com/education/master-school/how-to-apply-for-our-programmes/
PhD level: Annual ENEN PhD Event & Prize

- One-day event during an international conference
- 12 PhD students for 3 ENEN Prizes of 1,000€
- Hosted at:
  - 2nd at IYNC in Interlaken, Switzerland, 2008.
  - 3rd at International Youth Conference on Energetics 2009 in Budapest, Hungary, 2009
  - 4th PhD event, ENC 2010, Barcelona June 2nd, 2010
  - 5th PhD event, ICAPP 2011, Nice May 4th, 2011
  - 6th PhD event, Inter. Conf. Nuclear Energy for New Europe in Ljubljana, 2012
  - 7th PhD event, Int. Conf. on Emerging Nuclear Energy Syst. (ICENES), in Madrid, 2013.
  - 9th ENEN PhD Event & Prize took place in the framework of the International Congress on Advances in Nuclear Power Plants, ICAPP2015, in Nice, France, 5-6 May 2015
  - 10th PHD event, European Nuclear Conference 2016, Warsaw, Poland, 9-13 October 2016
  - 11th PhD event, PETRUS-ANNETTE PhD conference 2017, Lisbon, Portugal, 26-30 June 2017
Signature of Practical Arrangements with IAEA

- “Promoting nuclear knowledge management, human resources development and capacity building in Europe through regional networking
- Sharing information and material in Europe between the IAEA and ENEN for the benefit of students and professionals
- Exploring opportunities to participate jointly in activities such as meetings, symposia, workshops
- Exploring opportunities for developing and sharing joint publications and material including e-learning contents”
- And others ...
Signature of Cooperation Agreement with other IAEA’s regional networks AFRA-NEST, ANENT, LANENT and STAR-NET

Signed in September 2013
Renewed in 2017
ENEN CURRENT PROJECTS
CURRENT AND RECENT E&T PROJECTS

• ENEN PLUS: Coordinator: ENEN.
  • ENEN’s budget: 314,156 €. Project budget: 2,986,188 €
  • Grants’ budget: ~1,000,000 €.

• ANNETTE: Coordinator: ENEN.
  • ENEN’s budget: 192,000 €. Project budget: 2,517,399 €

• NUSHARE: Coordinator: ENEN.
  • ENEN’s budget: 200,000 €. Project budget: 994,460 €

• ENEN-RU II: Coordinator: ENEN.
  • ENEN’s budget: 171,000 €. Project budget: 530,000 €

• EUJEP-2: Coordinator: ENEN.
  • Project budget: ~180,000 €

• MEET CINCH: Coordinator: LEIBNIZ UNIVERSITÄT HANNOVER.
  • ENEN’s budget: 151,250 €. Project budget: 2,110,051 €

• CORONA II: Coordinator Kozloduy NPP
  • ENEN’s budget: 96,952 €. Project budget: 1,017,605 €
ENEN PLUS PROJECT

• Start in Fall 2017, http://plus.enen.eu

• 1,000,000€ in Grants for students, researchers and trainees.
ENEN PLUS PROJECT

- **WP 1**: Attract secondary school pupils
- **WP 2**: Increase attraction and retention (BSc, MSc)
- **WP 3**: Attract and develop graduates (nuclearization)
- **WP 4**: Develop beyond academic curricula (PhD, postdoc, life long)
- **WP 5**: Consolidate and further develop EFTS
- **WP 6**: Involve of stakeholders in EU and beyond
- **WP 7**: Manage

**New build**
**Operation**
**Decommissioning**

- **Nuclear Engineering and Safety**
- **Waste Management and Geological Disposal**
- **Radiation Protection**
- **Medical Applications**
ENEN+ call opens on March 1, 2018

CALL FOR MOBILITY GRANTS

OPENS ON 1 MARCH 2018 !!

CALL FOR APPLICATIONS

ENEN (the European Nuclear Education Network) Association, through the ENEN+ project co-funded by the EURATOM research and training Work Programme 2016 – 2017 – 1(#755576) of the European Commission (H2020), provides mobility grants for learners, who would like to improve their knowledge, skills and competitiveness for career opportunities in the nuclear fields.

WHO SHOULD APPLY?

The mobility grants are intended for those, who would like to improve their knowledge, skills and competitiveness for career opportunities in the following nuclear fields:

- Nuclear engineering and safety
- Waste management and geological disposal
- Radiation protection
- Medical applications

In particular, the following groups of learners are eligible to receive mobility grants:

- BSc. students interested in pursuing a master education and/or a career in the nuclear fields.
- MSc. students interested in extracurricular experience and/or academic exchange such as EMSNE.
- PhD. students and Post-docs in nuclear interested in academic and research exchange, access to research infrastructures and cooperation with EURATOM research projects.
- Professionals interested in changing their careers to nuclear and/or building up their life-long learning on nuclear topics.

All mobility actions must be transnational and completed before December 31st, 2020 (the end of the ENEN+ project). The applicants of the mobility actions may be:

- Citizens of any EU member country willing to travel abroad (to another EU country or anywhere else)
- Citizens of countries, which are not members of EU, pursuing studies in an EU member country and having an already established relation with the receiving institution.
What/who is supported by ENEN+ mobility grants?

• Individuals who wish to improve their skills, knowledge and competitiveness for career opportunities in the following nuclear fields:
  – nuclear engineering and safety
  – waste managements and geological disposal
  – radiation protection
  – medical applications

• Eligible people:
  – BSc & MSc students: academic exchange, international internships
  – PhD students and post-docs: researcher exchange, access to infrastructures, participation in EURATOM funded research projects
  – Professionals: life-long learning

• Grant amounts based on lump sums (500 eur travel, 275 – 1100 eur / month subsistence allowance depending on type of mobility)
• OBJECTIVE: to develop and implement Education, Training and Information programmes strengthening competences required for achieving excellence in Nuclear Safety Culture.

• Project proposed by:
  – Commissioner for Research and Innovation
  – Commissioner for Energy

...after the Great East Japan Earthquake and Tsunami in

From January 2013 to June 2017!
Single Beneficiary of NUSHARE

Target Group 1
Policy decision makers & opinion leaders

Target Group 2
Nuclear Regulatory Authorities & TSOs

Target Group 3
Electric utilities, suppliers, & providers of Nuclear services
Contribution to the Hearing on the new European Nuclear Safety Directive in the Committee on Industry, Research And Energy (ITRE) in the EU Parliament

“ENEN defended the support to the Education and Training in the nuclear field as a necessary contribution to assure the Nuclear Safety throughout Europe and beyond, together with the promotion of a healthy Nuclear Safety Culture”.

“The NUSHARE Project, as a service to the European citizens, aims at enhancing and better spreading of nuclear safety culture principles, in line with the emphasis on this aspect in the proposed amendments to the new Nuclear Safety Directive”.

February 2014
ANNETTE

Advanced Networking for Nuclear Education and Training Transfer of Expertise

• 4 years action
• Started in February 2016
• 25 partners
• EC Contribution 2.5MEuros
• Partners’s contribution: 0.7 MEuros
ANNETTE WPs

Contacts with Platforms, etc.
Master and Summer School for CPD
Production of teaching material
ECVET application in industry
NSC enhancement
FuseNet asked to join to coordinate nuclearization
CORONA II

• Development of a state-of-the-art regional training network for VVER competence (CORONA Academy)

• Supporting transnational mobility and lifelong learning amongst VVER operating countries
EC projects beyond EU

• Coordination of **ENEN-RU II project** - Cooperation with Russian Federation in Nuclear Education, Training and Knowledge Management: focus on the mobility of teachers and students (July 2014 – July 2017)

• Coordination of **EUJEP-2 project** (Japan) - Foster, organize and implement exchanges of European and Japanese Master level students with mutual recognition of credits (October 2014 – October 2017)
Bilateral cooperation ENEN-RU II (Russian Fed.)


• Coordinators: **ENEN** and **ROSATOM**

• Work Packages:
  – WP1: Nuclear competence building by E&T
  – WP2: ENEN-RU E&T Forum
  – WP3: Strengthening participation in Nuclear Education
  – WP4: Strengthening participation in Nuclear Training
  – WP5: E&T facilities, laboratories and equipment
  – WP6: Project management and Knowledge dissemination
Bilateral cooperation-EUJEP-2 (Japan)

Exchanges of European and Japanese Master level students with mutual recognition of credits.

36 months from October 2014 to September 2017

Mobility opportunities:

- EU: 20 students for a total of 100 months
  - Grant: 1500€ (trip) + 5000€ for a 5 months stay
  - 8 faculty staff for a total of 16 weeks

- Japan: 20 students for a total of 100 months
  - 18 faculty staff for a total of 36 weeks
OTHER PROJECTS INVOLVING ENEN

- PETRUS III - Implementing sustainable E&T programmes in the field of radioactive Waste Disposal (2013 – 2016)
- FP7 GENTLE - Graduate and Executive Nuclear Training and Lifelong Education (2013 – 2016)
- FP7 CINCH-II - Cooperation in education and training In Nuclear Chemistry: focus on the European master's degree in nuclear and radiochemistry (2013 – 2016)
- FP7 CORONA Establishment of Regional Center of Competence for VVER Technology and Nuclear Applications (2011 – 2014)
- ENEN III - Training schemes for Generation III and IV engineers. (2009 – 2013) – Use of ECVET system
- ENETRAP II - European Network on E&T in Radiological Protection: addressing mainly the nuclear safety authorities (2009 - 2012)
New projects?

• Preparation of a proposal to the EURATOM call NFRP-2018-7: Availability and use of research infrastructures for education, training and competence building (DL 9/2018)

• Nuclear materials, reactor physics & thermal hydraulics, radioprotection & waste management & decommissioning
Thank you for your attention

www.enen.eu

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