Canada Romania University Cooperation

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University Network of Excellence in Nuclear Engineering

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Canadian Nuclear Universities and UNENE: Background

UNENE is a not-for-profit partnership between industry, universities and government, formed in 2002 to address industry gaps in staff development, R&D coordination, and knowledge management:

- Supply of Highly Qualified Personnel (HQP)
- Support, fund and direct nuclear research and education in universities to address industry needs
- Coordinate and facilitate information exchange to enable universities and industry to collaborate
- Create respected pool of university-based expertise for independent advice

UNENE Members

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INDUSTRY

- Canadian Nuclear Labs (CNL) (formerly part of AECL-CRL)
- Bruce Power
- Ontario Power Generation (OPG)
- Canadian Nuclear Safety Commission(CNSC)
- CANDU Owners Group (COG)
- Nuclear Waste Management Org. (NWMO)
- Kinectrics
- SNC-Lavalin-Nuclear (formerly Candu Energy Inc / part of AECL)

UNIVERSITIES

- McMaster University
- Queen's University
- Ontario Tech (University of Ontario Institute of Technology)
- University of Saskatchewan
- University of Toronto
- University of Waterloo
- University of Western Ontario
- Ecole Polytechnique
- University of New Brunswick
- Royal Military College
- University of Guelph
- University of Windsor
- University of Regina
- Polytehnica University of Bucharest

Polytechnica University of Bucharest became first UNENE International University member in December 2019

UNENE Programs

- Education:
  - UNENE manages a continuing education M.Eng program in nuclear engineering -- courses on weekends for students in employment – delivered by consortium of UNENE universities
- Research and Capacity-Building:
  - UNENE coordinates 8 industry- and NSERC co-funded Research Chair programs at member universities
  - UNENE provides co-funding and oversight of individual research projects, also industry and NSERC co-funded
- Outreach
  - UNENE represents universities, and coordinates university participation in policy and outreach initiatives

UNENE, universities and international cooperation

- Canadian universities cooperate with university networks internationally in education and research programming and international exchanges
- IAEA – Practical Arrangement (MOU) with IAEA, including Canadian Nuclear Energy Management School; Member, Nuclear Education Network;
- OECD-NEA: Pioneering SMR-based NEST program
- Bi-lateral cooperation with like-minded countries including Romania

- 2021 represents a major opportunity for Canadian and Romanian universities to build partnership programs together

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Thank You !

Questions welcome