

Kronika • Chronicle

DG ENER pilot study programme

The Directorate-General for Energy is one of 33 policy-specific departments in the European Commission. It focuses on developing and implementing the EU energy policy – secure, sustainable, and competitive energy for Europe. The project DG ENER is the follow-on of the NUSHARE (a Euratom Education, Training and Information initiative addressing Nuclear Safety Culture competences) activities. The purpose of DG ENER project is to assess the requirements of organizations dealing with nuclear safety and radiation protection and to contribute to training of young specialists. This was a pilot project, because for the first time the participants came exceptionally from different EU countries.

Young LEI PhD students Mindaugas Drūlia and Audrius Graževičius were involved in training activities under this programme. They participated in the training courses “Legal Basis and Regulatory Processes for Nuclear and Radiation Safety” in Stockholm, Sweden during May 4–8, 2015 and “Technical Concepts, Techniques, Methods and Tools for the Assessment of Nuclear Safety and Radiation Protection” held in Munich, Germany on June 8–26, 2015. Both events were very useful. The knowledge about EC directives that define the necessity of passive safety systems use directly correlates with the investigation directions of the Laboratory of Nuclear Installation Safety, in which they are involved. Information was obtained and expanded in the following main topics: “Application of safety and radiation protection principles”, “Fundamental of reactor technology – circuits, reactor core and Fuel”, “Radiation protection of people and environment”, “Radioactive waste management”,

“Nuclear fuel cycle safety”, “Internal and external hazards”, “Nuclear security and non-proliferation”, “Analysis of accidents and nuclear events”, “Safety Culture: Systems thinking and culture”, “Design and safety options of new generation reactors”. The acquired knowledge will be useful for their PhD studies, the topic of which is the investigation of condensation in two-phase flow and analysis of thermal-hydraulic processes in NPP spent fuel pools and casks.

LEI PhD students continued the pilot project participating in a tutoring session, which was held at the Lithuanian Energy Institute and lasted three months: from September 7 till December 7, 2015. Students gained basic knowledge in modelling of thermal-hydraulic processes with RELAP5 code and increased knowledge in CFD calculations for the spent nuclear fuel pools. The obtained experience is meaningful for PhD studies and useful for the job at the Laboratory for Nuclear Installations Safety.

The final session of the DG ENER project was held on April 26–29, 2016 in a suburb of Paris, Enghien-les-Bains, in France. LEI young scientists Mindaugas Drūlia and Audrius Graževičius and their supervisor Dr. habil. Algirdas Kaliatka participated in this event. 30 people attended the meeting, including ENSTTI, EU representatives, and students’ supervisors. Half of them were young nuclear energy specialists from thirteen EU countries (Slovenia, Hungary, Croatia, Slovakia, Czech Republic, Bulgaria, Poland, Netherlands, Luxembourg, Germany, France, Latvia, and Lithuania) who were involved in the ENSTTI training process and are currently working at Technical Safety Organizations, Nuclear Regulation Authorities and

Radiation Protection Centres. On the first day, ENSTTI representatives overviewed the project and its implementation. On the second day, all students and their tutors presented their personal evaluations on the whole DG ENER pilot project. Then, meeting attendants were split into four groups for report preparation. Meanwhile, the harmonization of professional development of safety analyst was discussed, and it was analysed how it corresponded to the EC directives. Also, other basic training projects like DG ENER were evaluated. Some trainings were external; others took place inside the working organization (tutoring institution) during the execution of DG ENER. Therefore, it was debated on each of these training session benefits: is there a right balance between external vs. internal training, the need for mobility, how it may be increased,

etc. A EC representative overviewed the entire Training & Tutoring process at the end of the final meeting. According to the feedback of participants presented in the working group reports, ENSTTI intends to prepare training guidelines that will contribute to the harmonization process in the European Union. Participation of LEI staff in the final DG ENER meeting was a real opportunity to contribute to the development of these recommendations.

At the end of the meeting, LEI students obtained the training certificates with honours. LEI young scientists involved in DG ENER programme training activities gained significant knowledge in the field of nuclear safety, established contacts with young professionals from other countries, and this will assist in the future collaboration.

Certificate of Knowledge

The European Nuclear Safety Training and Tutoring Institute, ENSTTI, is an initiative of the European Technical Safety Organizations Network (ETSON). ENSTTI provides vocational training and tutoring in methods and practices required to perform assessments in nuclear safety, nuclear security and radiation protection.

The Managing Director has awarded this certificate to **Mindaugas DRULIA** with Honors

Organization: **LEI**

Field: **Basic Training Program for Analyst in Nuclear & Radiation Safety**

Issued in Paris, FR **April 29, 2016**

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[Signature]
Managing Director

European Nuclear Safety Training & Tutoring Institute

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The Managing Director has awarded this certificate to **Audrius GRAZEVICIUS** with Honors

Organization: **LEI**

Field: **Basic Training Program for Analyst in Nuclear & Radiation Safety**

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Managing Director

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