



# Education and training in radiation protection: initiatives of the EUTERP Foundation

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## Background

- ❑ 2006-2009: EC DG TREN supported a 3 year contract to create a Platform for E&T in radiation protection; main objectives were:
  - to facilitate the transnational access to vocational E&T infrastructures;
  - to harmonize the criteria and qualifications for, and mutual recognition of, qualified RP professions;
  - to remove obstacles for the mobility of these professions within the European Union;
  - to give advice for the revision of BSS.
- ❑ Platform of stakeholders (E&T providers, end-users, authorities)
- ❑ Coordinated by NRG, 5 board members, 6 observers (IAEA, EC, IRPA, EFOMP, IOE)
- ❑ Future sustainability was a prerequisite



- ❑ Communication with Platform members via
  - Website
  - Newsletters
  - Annual workshops
  
- ❑ **Key outcome:** advice concerning new descriptions on RPE and RPO for revision of BSS (Council Directive 96/29/EURATOM)
  
- ❑ Input and feedback to ENETRAP 6FP (2005-2007) and ENETRAP II 7FP (2009-2012) projects



## → EUTERP Foundation



- ☐ 2010: **EUTERP Foundation**: legal entity under Dutch law was established
- ☐ Main objectives:
  - Contribute to the development of a European policy with regard to education, training and competence development in RP
  - Encourage and support harmonization of E&T requirements for RPEs, RPOs and workers, facilitating mobility of these professionals
  - Act as central focus point for the sharing of information on training events, European standards, latest developments, and all other related information
- ☐ Newsletters, workshops, [www.euterp.eu](http://www.euterp.eu)



## **EUTERP Foundation Committee**

- ☐ President: Richard Paynter
- ☐ Secretary: Penelope Allisy-Roberts
- ☐ Treasurer: Folkert Draaisma
- ☐ Deputy treasurer and webmaster: Marcel Schouwenburg
- ☐ Board member: Michèle Coeck
- ☐ Board member: Joanne Stewart



## Strategy

Central focus for training information and development

- ☐ Access to national legislative requirements
- ☐ Central location for training reports and information ie ENETRAP II reports
- ☐ Provision of a forum for discussion of training matters

Resources provided on the EUTERP website

[www.euterp.eu](http://www.euterp.eu)



## ENETRAP projects

- ❑ EUTERP and ENETRAP projects are linked:
  - EUTERP = legal entity, acts as umbrella organization which distributes ENETRAP results, discusses them, and gives feedback
  - ENETRAP = projects where work is being carried out, limited in duration
- ❑ ENETRAP results ↔ EUTERP initiatives/results



## Education outcomes of ENETRAP I

- ❑ Education: establishment of a consortium of European universities  
→ launch of the **European Master in Radiation Protection**  
(<http://www.master-emrp.eu>)
  - one-year specialized training in the second year of the masters degree Health Engineering and Medicine
  - 60 ECTS (455 hours + 6 months internship)
  - lead by INSTN (CEA), université Joseph Fourier (Grenoble)





## Training outcomes of ENETRAP I

- ❑ **ENETRAP questionnaire (2006)**, resulted in an overview on:
  - A. numbers of RPE's and RPO's;
  - B. identification of practices;
  - C. national capabilities for E&T in RP;
  - D. regulatory requirements;
  - E. recognition.
- ❑ Introduction of **preliminary ENETRAP training scheme**, based on “common denominator” of European training for “RPE”
- ❑ Development and testing of first **e-learning modules** via MOODLE platform



## ENETRAP II 7FP

- ❑ Build further on previous results:
  - Primarily dealing with RPE and RPO, but interested in medical field and the approaches used for MPE
  - Focus on professional development
  - Towards European reference training scheme for RPE, serve as basis for mutual recognition
  - Introduction of ECVET approach, learning outcomes in terms of knowledge, skills, competences
  - Towards sustainable results via EUTERP and HERCA



## Outcomes of ENETRAP II

- ❑ **European Reference Training Scheme for RPEs**, with introduction of ECVET Learning Outcomes (K, S, C, in total 413)
  - Basic modules + Specialized modules depending on field of work
  - OJT + WE



## Outcomes of ENETRAP II

### ❑ Requirements for RPO

- Main areas of RPO work are considered and examples of appropriate training contents are given, divided into professional categories or competence groups, covering the following areas:
  - handling of radioactive materials and practices on installations producing ionizing radiation (incl. accelerators and cyclotrons)
  - medicine, dentistry
  - operation of x-ray equipment (technical, medical (without patients), veterinary medicine)
  - RPO in nuclear power plants/research reactors
- No recognition required



## Current actions

- ☐ Developing links with relevant organisations
- ☐ Partner in ENETRAP III bid
- ☐ Newsletters
- ☐ ETRAP 2013, Vienna
- ☐ EUTERP Workshop 2014
- ☐ Develop guidance to support implementation of the requirements for RPE and RPO (ENETRAP III)

