Education and Training Initiatives in the Radioecology Alliance

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The OECD/Nuclear Energy Agency’s report: “Nuclear Education and Training: Cause for Concern?” (2000) demonstrated that many nations were training too few scientists to meet the needs of their current and future nuclear industries.

Needs for post-graduates with skills in radiochemistry, radioecology including environmental modelling, and radiation protection including radiobiology and dosimetry.

EURAC, ENEN, ENEN-II suggested developing new MSc degree programmes:
- European MSc Radiation Protection
- European MSc Analytical Radiochemistry
- European MSc Radioecology
Overarching aims

1) To strengthen and secure a sustainable integrated European training and education platform in radioecology that will attract top-level graduates,

2) To maintain a relevant workforce that is in a position to meet future economic and societal needs within the nuclear sciences,

3) To enhance the mobility of teachers and STAR scientists as a means of securing competence building.
Overarching aims

1) To strengthen and secure a sustainable integrated European training and education platform in radioecology that will attract top-level graduates,

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- MSc in Radioecology (Bologna Model) – syllabus revision and new course modules (in consultation with stakeholders)
- E&T Platform – Website with links to other nuclear E&T activities
- Professional Development Courses – combined ECTS and vocational credits
EU Master in Radioecology established in 2008 at UMB
For information on STAR E&T Platform:

- www.star-radioecology.org
Collaboration with DoReMi/MELODI

Assessing Risk to Humans and the Environment
9-20th June 2014, UMB, Norway
Organised by the Centre for Environmental Radioactivity (CERAD), Norwegian University of Life Sciences (UMB) and Stockholm University, supported by DoReMi and STAR

Environmental Radiobiology
24-28th June 2013, UMB, Norway
5 ECTS MSc/PhD Course organised by the Norwegian University of Life Sciences (UMB) and Stockholm University, supported by DoReMi and STAR
• Both courses already give ECTS under Bologna model
• Popular with professionals: 8 of 28 students in Environmental Radiobiology were professional
• Exploring combination with ECVET – Assessment tool and modelling part of the 2014 course
Hiroshima University International PhD programme

Development of Phoenix Leader for Renaissance from Radiation Disaster (Hiroshima Initiative)

- Medical Specialist of Radiation Disaster, Government, Educational Institute, International Organization (IAEA, WHO, UN, etc.)
- Government, Company, Educational Institute, International Organization (IAEA, WHO, UN, etc.)
- Government, Company, Educational Institute, International Organization (IAEA, WHO, UN, etc.)

- protect human lives from radiation disasters
- protect the environment from radioactivity
- protect the human society from radioactivity

Organization of the Leading Graduate Education Program

- Radiation Disaster Medicine Course
- Radioactivity Environmental Protection Course
- Radioactivity Social Recovery Course

- Genome Disorder Sciences
- Radiation Effect Studies
- Radiation Medicine

- Radiation Physics
- Radiation Measurement
- Radiation Chemistry
- Environmental Radiation
- Food Sciences
- Meteorology

- Adapted Behavior
- Genetic Neural Psychology
- Child Health Studies
- Project Management
- Community Studies
- Communication Studies

Industry-Academia-Government Collaboration

- IUCN
- WWF
- IAEA
- HICARE
- WHO
- FAO
- UNCN
- JICA

Collaborating Research Institute Collaboration Consortium

Consultation and Outreach

STAR
(Contract Number: Fission-2010-3.5.1-269672)

DELIVERABLE (D-N°6.1)

Education and training in Radioecology:
Supply and Demand Stakeholder Workshops

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DELIVERABLE (D-N°6.2)

The Radioecology Education and Training Platform

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- For information on STAR E&T Platform:
  - www.star-radioecology.org
Thank you!

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