

ETRAP 2005

3rd International Conference on Education and Training in Radiological Protection

23 - 25 November in Brussels, Belgium

Programme

Day 1

Wednesday 23 November 2005

Keynotes

09:00 -
10:40

[International institutions' view and policy](#)

09:00 Welcome address

Paul Govaerts

ETRAP2005 Conference Chairman - General Manager SCK•CEN
(Belgium)

09:10 [The EU radiation protection training and education strategy](#)

Augustin Janssens

Head of Unit H.4 Radiation Protection DG TREN - European
Commission

09:40 [IAEA education and training activities - past and future](#)

Khammar Mrabit

Head Policy & Programme Support Section - Division of
Radiation and Waste Safety, International Atomic Energy
Agency

10:10 [IRPA initiatives on education, training and recognition of
radiation protection professionals](#)

Christian Wernli

Executive Council member - International Radiation Protection
Association

10:40 Break - posters & educational materials display

Keynotes

11:00 -
12:30

[International institutions' view and policy](#)

11:00 [Towards a European higher education area in radiation
protection: a European strategy to ensure quality, mutual
recognition and mobility of scientists](#)

Georges Van Goethem

Unit J.4 Nuclear Fission and Radiation Protection DG RTD -
European Commission

11:30 [The OECD/NEA perspectives on the maintenance of
competence: Future challenges for nuclear infrastructures](#)

Takanori Tanaka

Deputy Director for Safety and Regulation - OECD/NEA

12:00 Discussion among the speakers and the audience, moderated by the session chair

12:30 Lunch at the Hotel Métropole

Session 1

14:00 -
15:40

E&T needs (bottom up view & countries' perspectives) - 1

14:00 Spanish requirements in radiological protection training for the practice of interventional radiology - a five years experience

Eliseo Vano

Head of Medical Physics Group - Radiology Service,
Complutense University Madrid (Spain)

14:20 A radiation protection guide for the nuclear workers

Hervé Delabre

Project leader of the RP handbook - EDF Generation and
Engineering (France)

14:40 E&T in the frame of nuclear and radiological emergency preparedness: Belgium's experience and future plans

Lodewijk Van Bladel

Head of Medical Applications Control Office - Federal Agency
for Nuclear Control (Belgium)

15:00 NORM training: increasing awareness, reducing exposure

Richard van Sonsbeek

Manager - Röntgen Technische Dienst bv, Department
Radiation Protection Services (The Netherlands)

15:20 Discussion among the speakers and the audience, moderated by the session chair

15:40 Break - posters & educational materials display

Session 2

16:00 -
17:40

E&T needs (bottom up view & countries' perspectives) - 2

16:00 The Swiss concept for the education in radiological protection in the medical field

Mathias Gasser

Scientific Expert - Swiss Federal Office of Public Health
(Switzerland)

- 16:20 [Education and training activities of ENEA – Radiation Protection Institute: national needs of education to harmonisation and harmonisation of training](#)
Andrea Luciani
 Researcher - ENEA Radiation Protection Institute (Italy)
- 16:40 [Education and training in radiation protection in Portugal: present situation and a project for the future](#)
Carlos Oliveira
 Head of Department of Radiological Protection and Nuclear Safety - Instituto Tecnológico e Nuclear (Portugal)
- 17:00 Discussion among the speakers and the audience, moderated by the session chair
- 19:00 Welcome reception at the Hotel Métropole

Day 2 **Thursday 24 November 2005**

Session 3

09:00 -
11:00

[International E&T initiatives](#)

- 09:00 [The role of the European Nuclear Education Network association \(ENEN\) in the academic and industrial environment](#)
Peter De Regge
 Secretary General of the ENEN Association - ENEN (France)
- 09:20 [The establishment of a European Network on Education and Training in Radiological Protection \(ENETRAP\)](#)
Michèle Coeck
 ENETRAP Project leader - SCK•CEN (Belgium)
- 09:40 [Nuclear science education and training courses on radioactivity and radiation protection - A JRC activity in EU enlargement and integration](#)
Joseph Magill
 Head of Advanced Nuclear Studies - EC Joint Research Centre / ITE (Germany)
- 10:00 [Sharing the access to big nuclear facilities for safety training: experience of an Erasmus intensive programme](#)
François Tondeur
 Professor - Haute Ecole Paul-Henry Spaak (Belgium)
- 10:20 [Initiation of a European Platform on Training and Education in Radiation Protection \(EUTERP Platform\)](#)
Jan van der Steen
 Manager Radiation and Environment - NRG (The Netherlands)
- 10:40 Discussion among the speakers and the audience, moderated by the session chair

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| | | 11:00 | Break - posters & educational materials display |
| Posters | 11:20 - | | Presentation of an overview of the ETRAP2005 posters |
| | 11:40 | | |
| Debate | 11:40 - | | ETRAP2005 plenary session on the conference declaration |
| | 12:30 | | |
| | | 11:40 | Presentation of the discussion document for the conference declaration Patrick Smeesters Radiation Protection Adviser - Federal Agency for Nuclear Control (Belgium) |
| | | 11:50 | Plenary discussion on key themes related to E&T needs and harmonisation, to be presented in the conference declaration. Session facilitated by the moderator and triggered by two speakers: Alberto Del Guerra - President of the European Federation of Organisations for Medical Physics Bertrand Barré - President of the European Nuclear Society; Director of Research & Development - COGEMA |
| | | 12:30 | Lunch at the Hotel Métropole |
| Session 4 | 14:00 - | | Certification / accreditation / recognition - 1 |
| | 15:40 | | |
| | | 14:00 | The UK's experience of setting up a recognition system for Qualified Experts Laurence Evans Policy Advisor - Nuclear International and RP Policy Department, The Health and Safety Executive Health and Safety Executive (UK) |
| | | 14:20 | The qualified expert : competences, training and experience requirements Pierre Kockerols Qualified Expert - EC Joint Research Centre IRMM (Belgium) |
| | | 14:40 | Certification of industrial radiography operators in Norway Tor Wøhni - Norwegian Radiation Protection Authority (Norway) |
| | | 15:00 | Legal Requirements for Radiation Protection Training in Germany A. Schmitt-Hannig - Bundesamt für Strahlenschutz (Germany) |
| | | 15:20 | Discussion among the speakers and the audience, moderated by the session chair |
| | | 15:40 | Break - posters & educational materials display |

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| Session 5 | 16:00 - 17:40 | <u>Training & education tools</u> |
| | 19:00 | 16:00 <u>Towards a mobile learning pedagogy in radiation protection</u> Edward Waller , Associate Professor in Radiation Science - University of Ontario Institute of Technology (Canada) |
| | | <u>Spanish educational web site on radiation protection nuclear medicine course</u> Marisa Marco , Specialist in Radiation Protection Training, Head of Unit Virtual Centre for Distance Learning - CIEMAT (Spain) |
| | | <u>The use of computer simulations in specific job training, risk communication and safety</u> Fernand Vermeersch , Scientific collaborator - Safety Department SCK•CEN (Belgium) |
| | | <u>European multimedia course for training on radiation protection for interventional radiology</u> Eduardo Guibelalde , Professor Medical Physics - Dept. of Radiology, University Complutense of Madrid (Spain) |
| | | <u>Computer based training application for NPP Cernavoda</u> Mihail Ceclan , Head of Laboratory for Thermal and Fluid Treatment Equipment - Politehnica University of Bucharest (Romania) |
| | <u>Development of an active learning methodology for a course of radioactive contamination in an engineering higher school</u> José Ródenas , Professor of Nuclear Engineering - Department of Chemical and Nuclear Engineering, Polytechnical University of Valencia (Spain) | |
| | 17:00 | Discussion among the speakers and the audience, moderated by the session chair |
| | 19:00 | Conference dinner at the Belgian Cartoon Museum (preceded by a guided visit) |

Day 3 **Friday 25 November 2005**

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| Session 6 | 09:00 - 10:40 | <u>Certification / accreditation / recognition - 2</u> |
| | 09:00 | <u>Towards a specific education and training programme in radiological protection for practitioners in interventional cardiology</u> Hubert Thierens Head of Radiation Protection Department - Ghent University (Belgium) |

- 09:20 [Postgraduate radiation protection training & needs : the University of Surrey model](#)
P.H. Regan
 Reader in Nuclear Physics - University of Surrey (UK)
- 09:40 [Radiation protection programmes for the transport of radioactive materials](#)
W.L. Wilkinson
 Consultant - World Nuclear Transport Institute (UK)
- 10:00 [The relationship between training, competency and suitability](#)
Joanne Stewart
 Group leader - Radiation Protection Division, Health Protection Agency (UK)
- 10:20 Discussion among the speakers and the audience, moderated by the session chair
- 10:40 Break - posters & educational materials display

Session 7

11:00 -
12:40

[The broader perspective](#)

- 11:00 [A training program in radiation protection and quality control for radiographers and radiological technologists from developing countries](#)
Harrie Mol
 Professor - EHSAL Hogeschool Brussels (Belgium)
- 11:20 [Stakeholder views on scientific competences needed for future university-trained postgraduates within the field of radiological protection](#)
Christian Tamponnet
 Project Leader - IRSN (France)
- 11:40 [Implementation of the strategy for education and training in radiation protection and waste safety - towards sustainability](#)
Geetha Sadagopan
 Training Specialist - Policy & Programme Support Section, Division of Radiation and Waste Safety, International Atomic Energy Agency
- 12:00 [A transdisciplinary approach to education and training in radiological protection](#)
Gaston Meskens
 Adviser, Applied Systems Analysis and Technology Assessment, PISA (Programme of Integration of Social Aspects into nuclear research) - SCK•CEN (Belgium)
- 12:20 Discussion among the speakers and the audience, moderated by the session chair

Closing12:40 -
13:00Closing session

- 12:40 Concluding remarks and presentation of the ETRAP2005 conference declaration
Paul Govaerts
ETRAP2005 Conference Chairman, General Manager
SCK•CEN (Belgium)
- 13:00 Farewell lunch at the Hotel Métropole

POSTERS*list of posters (in alphabetical order on name of first author)*

- P1 [Education and training on radiation protection at national and regional levels in Greece](#)
P. Dimitriou
- P2 [International bachelor academic programme in radiation protection for International Sakharov Environmental University and University of South Bohemia](#)
Cancelled Natalia Gerasimovich, P. Kuna, L. Navrati, I. Pukhtseyeva, N. Prokopenko, A. Timoshchenko
- P3 [Training and education against illicit trafficking of nuclear materials](#)
Thomas Geringer
- P4 [Romanian experience in education in nuclear engineering and future developments towards an European integrated approach](#)
Petre Ghitescu, Nineta Ghizdeanu, Octavian Dragusin, Niculae Mihailescu
- P5 [Encouraging the assistance to courses on radiation protection in one medical school](#)
J. Hernandez-Armas, F. Hernandez, A. Catalan and JC. Fdez-Aldecoa
- P6 [Experiences from training courses of National Committee for implementation of QA in radiology in Slovakia](#)
M. Horváthová, D. Nikodemová
- P7 [Education and training of the radiation expert in Belgium](#)
Herwig Janssens, François Tondeur, Michèle Coeck, Antoine Debauche
- P8 [Test-control of knowledge of participants of regional PGEC course on radiation protection and safety of radiation sources in ISEU, Minsk, Belarus](#)
E. Khadzhinov, A. Timoshchenko, N. Tushin

- P9 [Education and training: common needs and regional solutions](#)
M H Kharita and I. Othman
- P10
Cancelled [Practical methods used for the cultivation of radiation protection at the training reactor, VR-1 SPARROW](#)
Antonín Kolros
- P11
Cancelled [One-year experience on the implementation of the new slovenian regulation on radiation protection training](#)
Matjaz Kozelj
- P12 [Radiological education and training in former Soviet Union countries](#)
Semyon Kundas, J. Sabol, A. Timoshchenko
- P13 [SCK•CEN's international school for Radiological Protection \(isRP\): Communicating the aspects of radiological protection](#)
Isabelle Majkowski, Cindy Verachtert, Michèle Coeck
- P14 [Existing competence and infrastructure in radiation protection training at postgraduate level within the EU and new entrant states](#)
Peter Mitchell
- P15 [The training activities of the Center for Advanced Technological and Environmental Training \(FTU\) of Forschungszentrum Karlsruhe](#)
Siegurd Möbius, Gerhard Frank, Angela Bickel
- P16 [BNEN: The Belgian Nuclear Higher Education Network. Your way to the European Master of Nuclear Engineering](#)
Frans Moons
- P17 [Radiation protection training organised by Paul Scherrer Institute](#)
R. Müller, E. Walder
- P18 [The supervision on radiation protection: The requirements on education and training for radiation protection experts](#)
Hana Podškubková
- P19 [QUADOS: Quality Assurance in Radiation Protection and Dosimetry - an EU funded CA of framework IV establishing harmonization within Europe](#)
R.A. Price, G. Gualdrini, S. Agosteo, S. Ménard, , J-L. Chartier, B. Großwendt, I. Kodeli, G.P. Leuthold, B.R.L. Siebert, H. Tagziria, R.J. Tanner, M. Terrissoll, M. Zankl

- P20 [Workplace monitoring at the Nuclear Medicine Department of IPOFG-CROL, SA](#)
M. T. Rézio and M. R. Vieira
- P21 [Generation of dose databases for an operator training application in nuclear facilities](#)
J. Rodenas
- P22 [Education to a graduated engineer degree in the field of radiation protection in Saxony](#)
Peter Sahre
- P23 [ENETRAP: Comparing the scientific content of the IAEA Standard Syllabus to European Requirements](#)
A. Schmitt-Hannig, S. Möbius, A. Bickel, G. Sadagopan, M. Williams
- P24 [Is there any need for a mutual recognition of Qualified Experts? First results of an opinion poll](#)
Karl-Ludwig Stange
- P25 [Training in radiation protection and its update in Germany](#)
Barbara Stolze
- P26 [Education and training of leading professionals in radiological protection in The Netherlands](#)
S. van Dulleman, A.J.J. Bos and W.J.C. Okx
- P27 [History of medical dosimetry: Contribution of the Belgian museum of radiology to education](#)
R. Van Loon and R. Van Tiggelen
- P28 [Teaching problem solving skills to radiation protection students](#)
Edward J. Waller
- P29 [Training as a vital tool to establish a Quality Management System in a testing laboratory at the International Atomic Energy Agency](#)
J. Zeger, K. Mrabit, R. Cruz-Suarez and P. Deboodt