

ETRAP

2017



# Programme

30 May – 02 June 2017

Valencia, Spain

Organised by



in collaboration with:





ETRAP

2017



## Tuesday, 30 May

**17:00 - 19:00 – Pre-registration**

**18:00 - 19:00 – Welcome Drink**

## Wednesday, 31 May

**09:00 - 10:30 – Opening and keynote speeches**

Chair: M. Coeck, SCK•CEN, Belgium; R. Paynter, EUTERP, Netherlands

Francisco José Mora Mas, Rector of UPV, Spain

Michèle Coeck, SCK•CEN, ETRAP Chairperson

Eduardo Gallego, Vice – President, IRPA

Peter Johnston, Director of Radiation, Transport and Waste Safety, IAEA

Ted Lazo, Deputy Head, Radiological Protection and Radioactive Waste Management Division, OECD/NEA

*"Education in Nuclear Sciences – What We Have and What We Need?"*

**10:30 - 11:00 Coffee Break + Demo (A0060)**

A0060 - RESEARCH AND EDUCATIONAL PORTAL OF NUCLEAR KNOWLEDGE BELNET AND ITS ROLE IN EDUCATION AND TRAINING ON RADIATION PROTECTION

Timoshchenko, A. (1); Charapitsa, S. (2); Dezhurko, M. (1); Dubovskaya, I. (1); Kimlenka, I. (1); Savitskaya, T. (1); Kavalenka, A. (2); Lobko, A. (2); Mazanik, A. (2); Polyak, N. (1); Sytova, S. (2); Sidorovich, T. (3)

1 - Belarusian State University, Belarus

2 - Institute for Nuclear Problems of Belarusian State University, Belarus

3 - Brest State Technical University, Belarus



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## 11:00 – 12:30 Developments in education and training in radiation protection

Chair: J. Stewart, Public Health England, UK; Co-Chair: K. Karfopoulos, EEAE, Greece

ETRAP2017-A0019 11:00 – 11:15	RADIATION PROTECTION WORKER (RPW) COMPETENCE BASED QUALIFICATION DESIGN. PILOT IMPLEMENTATION OF ECVET APPROACH IN RPW TRAINING	Ilieva, M. (1); Miteva, R. (1) 1 - Risk Engineering Ltd., Bulgaria
ETRAP2017-A0030 11:15 – 11:30	COURSE ON "RADIATION PROTECTION EXPERT". CONVERGENCE TOWARDS THE EUROPEAN STANDARD	Falcón, S. (1); Marco, M. (1) 1 - CIEMAT, Spain
ETRAP2017-A0074 11:30 – 11:45	THE DEVELOPMENT OF EDUCATION AND TRAINING IN RADIOLOGICAL PROTECTION IN THE ARGENTINE REPUBLIC	Margetic, A. I. (1) 1 - Nuclear Regulatory Authority, Argentina
ETRAP2017-A0076 11:45 – 12:00	THE CHALLENGES IN RADIATION PROTECTION EDUCATION AND TRAINING IN LITHUANIA	Ziliukas, J. (1); Gatelyte, I. (1) 1 - RADIATION PROTECTION CENTRE, Lithuania
ETRAP2017-A0082 12:00 – 12:15	TRAINING IN RADIATION PROTECTION: DEVELOPING EXPERTISE AND CULTURE IN RADIATION PROTECTION (OUTCOMES FROM A DEDICATED SFRP SYMPOSIUM ORGANISED IN 2016 IN PARIS, FRANCE)	Tamponnet, C. (1); Livolsi, P. (2); Vidal, J.-P. (1); Deboodt, P. (3); Fusil, L. (4); Gschwind, R. (5); Haan, S. (4); Quiot, A. (6); Aubineau-laniece, I. (4); Cordier, G. (4); De vita, A. (7); Gaillard-Lecanu, E. (6); Jimonet, C. (2); Roy, C. (8); Tranchant, P. (9); Chambrette, V. (10); Ammerich, M. (4); Abela, G. (6); Luccioni, C. (11) 1 - IRSN - Institut de Radioprotection et de Sûreté Nucléaire - , France 2 - CEA/INSTN - Institut National des Sciences et Techniques Nucléaires - , France 3 - SCK-CEN - Centre d'Etudes Nucléaires, Belgium 4 - CEA - Commissariat à l'Energie Atomique et aux Energies Alternatives, France 5 - Université de Franche-Comté, France 6 - EDF - Electricité de France, France 7 - MELOX-AREVA , France 8 - ENVA - Ecole Nationale vétérinaire de MAison-Alfort, France 9 - ONET, France 10 - SFRP - Société française de Radioprotection, France 11 - CNAM - Conservatoire National des Arts et Métiers, France
12:15 – 12:30	Q&A	

## 12:30 – 13:30 Lunch + Poster session I



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30 May - 2 June 2017

### 13:30 – 15:00 Strategic Approaches and Impact Analysis

Chair: J. Wheatley, IAEA; Co-Chair: P. P. Mayo Nogueira, Universidad Polit cnica de Valencia, Spain

ETRAP2017-A0062 13:30 – 13:45	SYNERGIES, HARMONISATION AND OPPORTUNITIES: THE NEED FOR A CROSS GENERATION RADIATION PROTECTION POOL OF KNOWLEDGE	Paterson, N. (1) 1 – European Nuclear Society – Young Generation Network
ETRAP2017-A0016 13:45 – 14:00	IMPACT EVALUATION OF THE POSTGRADUATE EDUCATIONAL COURSE IN RADIATION PROTECTION AND THE SAFETY OF RADIATION SOURCES (PGEC)	Luciani, A. (1); Wheatley, J. (1); Ticevic, S. (1) 1 - Division of Radiation, Transport and Waste Safety, Department of Nuclear Safety and Security, IAEA, Austria
ETRAP2017-A0055 14:00 – 14:15	OVERVIEW ON THE EVALUATION AND ASSESSMENT MECHANISMS FOR THE POSTGRADUATE EDUCATIONAL COURSE IN RADIATION PROTECTION AND THE SAFETY OF RADIATION SOURCES (PGEC)	Da Silva, A. A. (1); Othman, M. S. (2); Zulkifli, M. H. (2); Karfopoulos, K. (3); Nasri, B. (4); Nouredine, A. (5); Serfor-Armah, Y. (6); Shweikani, R. (7); Timoshchenko, A. I. (8); Margetic, A. (9); Valentino, L. (9); Luciani, A. (10) 1 - Radioprotection and Dosimetry Institute (IRD); National Nuclear Energy Commission (CNEN), Brazil 2 - Nuclear Malaysia, Malaysia 3 - Greek Atomic Energy Commission (EEAE), Greece 4 - Centre national de l'�nergie, des sciences et des techniques nucl�aires (CNESTEN), Morocco 5 - Centre de Recherche Nucl�aire d'Alger (CRNA); Commissariat � l'�nergie atomique (COMENA), Algeria 6 - School of Nuclear and Allied Sciences, Ghana Atomic Energy Commission, Ghana 7 - Atomic Energy Commission of Syria, Syrian arab Republic 8 - Belarussian State University, Belarus 9 - Autoridad Regulatoria Nuclear, Argentina 10 - International Atomic Energy Agency (IAEA), Austria
ETRAP2017-A0026 14:15 – 14:30	MALAYSIA STRATEGY TOWARDS ESTABLISHING NATIONAL POLICY FOR E&T IN RADIATION, TRANSPORT AND WASTE SAFETY	Mohamad Hashim, Z. (1); Kader Ibrahim, S. (1); Othman, S. (1) 1 - Malaysia Nuclear Agency, Malaysia
14:30 – 15:00	Q&A	



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### 15:00 – 15:40 Coffee Break (A0094)

A0094 -VIRTUAL REALITY EXPERIMENTS (VRES): A NEW APPROACH IN TEACHING RADIATION PROTECTION BASICS

Vahlbruch, J. -W. (1); Lindlahr, W. (2); Wendt, K. (2)

1 - Leibniz University of Hanover, Institute for Radioecology and Radiation Protection, Germany

2 - Johannes Gutenberg University, Institute of Physics, Germany

### 15:40 – 17:00 Collaborations, networks and platforms: activities and achievements

Chair: H. F. Boersma, University of Groningen, The Netherlands; Co-Chair: P. Deb, RMIT University, Australia

ETRAP2017-A0086 15:40 – 16:00	ACHIEVEMENTS AND ONGOING ACTIONS RELATED TO THE 7FP ENETRAP III PROJECT	Coeck, M. (1); Schmitt-Hannig, A. (2); Stewart, J. (3); Livolsi, P. (4); Marco, M. (5); Trumm, S. (6) 1 - Belgian Nuclear Research Centre SCK•CEN, Belgium 2 - BfS, Germany 3 - PHE, United Kingdom 4 - CEA-INSTN, France 5 - CIEMAT, Spain 6 - KIT, Germany
ETRAP2017-A0001 16:00 – 16:20	LEARNING OUTCOMES FOR E&T PROGRAMS FOR RPOS RESPONSIBLE FOR OPEN RADIOACTIVE SOURCES –GERMAN-DUTCH COMPARISON	Boersma, H. F. (1); Vahlbruch, J.-W. (2); Lembeck, J. (2); Bunscoeke, A. (. J.). (1); Zandvoort, A. J. H. (1) 1 - University of Groningen, Netherlands 2 - Leibniz University Hannover, Germany
ETRAP2017-A0054 16:20 – 16:40	SUPPORT AND INTEGRATION OF EDUCATION AND TRAINING FOR RADIATION PROTECTION RESEARCH IN THE EUROPEAN JOINT PROGRAMME CONCERT	Smyth, V. (1); Ottolenghi, A. (1); Wojcik, A. (2); Safrany, G. (3); Coeck, M. (4); Atkinson, M. (5) 1 - Physics Department, University of Pavia, Italy 2 - Stockholm University, Sweden 3 - National Research Institute for Radiobiology and Radiohygiene, Hungary 4 - SCK•CEN Belgian Nuclear Research Centre, Belgium 5 - Helmholtz Centre Munich, Germany
16:40 – 17:00	Q&A	



# ETRAP

## 2017



30 May - 2 June 2017

### Thursday, 1 June

#### **09:00 – 10:45 Tools and resources, methodology of training (forms of learning, approaches with different audiences and sectors)**

Chair: P. Livolsi, CEA, France Co-Chair: G. Verdu, Universidad Politécnica de Valencia, Spain

ETRAP2017-A0013 09:00 – 09:15	TEACHING RADIATION LEVELS, EFFECTS AND PROTECTION IN NUCLEAR ENERGY: INTERNATIONAL EFFORTS FOR COACHING NUCLEAR DECISION MAKERS IN RADIATION	González, A. J. (1); Johnston, P. (2) 1 – Autoridad Regulatoria Nuclear, Argentina 2 - IAEA
ETRAP2017-A0036 09:15 – 09:30	RADIATION PROTECTION AWARENESS CHALLENGES AT CERN	Dalban, D. (1); Donjoux, Y. (1); Balle, C. (1) 1 - CERN, Switzerland
ETRAP2017-A0049 09:30 – 09:45	TRAINING FOR THE USE OF E-LEARNING TOOLS FOR SPECIALISTS IN THE NUCLEAR SECTOR OF LATIN AMERICA AND THE CARIBBEAN	Silva, A. A. D. (1); Matzen, C. P. (2); Jose, M. A. (3); Tello, J. (4) 1 - RED LATINOAMERICANA PARA LA EDUCACIÓN Y LA CAPACITACIÓN EN TECNOLOGIA NUCLEAR - LANENT, Mexico 2 - UNIVERSIDAD METROPOLITANA DE CIENCIAS DE LA EDUCACION - UMCE, Chile 3 - VIRTUAL CONSULTANCY IN INFORMATION TECHNOLOGY, Brazil 4 - DEPARTAMENTO DE MEDIOS EDUCATIVOS - UMCE, Chile
ETRAP2017-A0056 09:45 – 10:00	TRAIN-THE-TRAINER COURSE FOR RADIATION PROTECTION EXPERT: ESSENTIAL TO DEVELOP COMPETENCES	Marcuccini, F. (1); Livolsi, P. (1); Massiot, P. (1); Coeck, M. (2); Clarijs, T. (2); Marco Arbolí, M. (3); Stewart, J. (4); Vaz, P. (5); Nazareth Falcao, A. (5); Pesznyak, C. (6) 1 - INSTITUT NATIONAL DES SCIENCES ET TECHNIQUES NUCLEAIRES (CEA), France 2 - STUDIECENTRUM VOOR KERNENERGIE (SCK•CEN), Belgium 3 - CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT (CIEMAT), Spain 4 - DEPARTMENT OF HEALTH (HPE), United Kingdom 5 - ASSOCIACAO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E DESENVOLVIMENTO (IST ID), Portugal 6 - BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM (BME), Hungary
ETRAP2017-A0067 10:00 – 10:15	MONITORING THE EFFECTIVENESS OF THE TRAINING PROGRAM IN RADIATION PROTECTION, SAFETY, SECURITY AND ENVIRONMENT AT THE BELGIAN NUCLEAR RESEARCH CENTRE SCK•CEN	Kesteloot, N. (1); Coeck, M. (1); Van Puyvelde, L. (1) 1 - Belgian Nuclear Research Centre SCK•CEN, Belgium
ETRAP2017-A0069 10:15 – 10:30	ENETRAP III TOOL FOR CAPACITY BUILDING IN RADIATION PROTECTION	Marco, M. (1); Llorente, C. (1); Clarijs, T. (2); Coeck, M. (2); Schouwenburg, M. (3); van Elsäcker-Degenaar, H.



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		(4); Livolsi, P. (5) 1 - CIEMAT, Spain 2 - Belgian Nuclear Research Centre SCK•CEN, Belgium 3 - TU Delft, Delft University, Netherlands 4 - Nuclear Research and Consultancy Group; NRG, Netherlands 5 - Commissariat à l'énergie atomique et aux énergies alternatives - CEA Grenoble, Spain
10:30 – 10:45	Q&A	

### 10:45 -11:15 Coffee Break + Demo (A0044)

A0044 - THE ROLE OF VERT IN RADIATION PROTECTION EDUCATION

Hakkert, M. (1); Wit, F. (1)

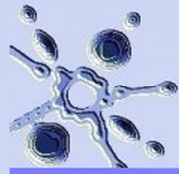
1 - University of Applied Science Inholland Haarlem, Netherlands

### 11:15 – 12:30 Integration of social sciences and humanities in radiation protection education and training

Chair: E. Gallego, Universidad Politecnica de Madrid, Spain; Co-Chair: G. Meskens, SCK•CEN, Belgium

ETRAP2017-A0007 11:15 – 11:30	RADIATION RISK COMMUNICATION: AN IMPORTANT ELEMENT OF RADIATION PROTECTION EDUCATION AND TRAINING	Sabol, J. (1); Šesták, B. (1) 1 - Faculty of Security Management, PACR in Prague, Czech Republic
ETRAP2017-A0009 11:30 – 11:45	LECTURING ETHICS IN NUCLEAR SCIENCE AND TECHNOLOGY AND RADIATION PROTECTION COURSES: MOTIVATIONS, APPROACHES AND ATTENTION POINTS.	Meskens, G. (1) 1 - SCK-CEN, The Belgian Nuclear Research Centre, Belgium
ETRAP2017-A0059 11:45 – 12:00	POSITIVE SCHOLAR - AN EXPERIENCE BASED ON POSITIVE PSYCHOLOGY AND POSITIVE EDUCATION IN THE POSTGRADUATE PROGRAM OF THE INSTITUTE OF RADIOPROTECTION AND DOSIMETRY - IRD IN BRAZIL	Perez Corrêa, A. (1); Augusto da Silva, A. (1) 1 - INSTITUTO DE RADIOPROTEÇÃO E DOSIMETRIA/COMISSÃO NACIONAL DE ENERGIA NUCLEAR, Brazil
ETRAP2017-A0085 12:00 – 12:15	TOWARDS A BROAD CONCEPTION OF NUCLEAR ACTIVITY	Margetic, A. I. (1) 1 - Nuclear Regulatory Authority, Argentina
12:15 – 12:30	Q&A	

### 12:30 – 13:30 Lunch and Poster Session II



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30 May - 2 June 2017

### 13:30 – 15:00 Sector specific experiences I

Chair: L. Grindrod, PHE, UK; Co – Chair: P. G. CASTAÑON, Instituto de Investigación del Hospital Universitario La Princesa, Spain

ETRAP2017-A0014 13:30 – 13:45	RADIATION PROTECTION COURSE FOR COMPANIES DEALING WITH RECYCLING-, DISPOSAL- AND PROCESSING OF SCRAP MATERIALS	Neuwirth, J. (1); Strebl, F. (1); Hefner, A. (1) 1 - Seibersdorf Laboratories, Austria
ETRAP2017-A0018 13:45 -14:00	INITIATIVES TO INTEGRATE NUCLEAR SECURITY WITH RADIATION PROTECTION EDUCATION AND TRAINING	Harris, J. (1); Waller, E. (2) 1 - Purdue University, United States 2 - University of Ontario Institute of Technology, Canada
ETRAP2017-A0068 14:00 – 14:15	CERTIFIED TRAINING FOR RADIOACTIVE SOURCE SECURITY MANAGEMENT	Johnson, D. (1) 1 - World Institute for Nuclear Security, Austria
ETRAP2017-A0020 14:15 – 14:30	RADIATION PROTECTION OFFICERS TRAINING IN SAUDI ARABIA: CURRENT STATUS AND FUTURE PERSPECTIVES	Noor, O. (1); Arib, M. (1); Moftah, B. (1); Mayhoub F. (1) 1 - Biomedical Physics Department, King Faisal Specialist Hospital and Research Center, Kingdom of Saudi Arabia
ETRAP2017-A0093 14:30 – 14:45	EDUCATION AND TRAINING OF WORKERS FOR DEVELOPMENT OF A SAFETY CULTURE IN A RADIOACTIVE FACILITY	Amador Balbona, Z. H. (1); Soria Guevara, M. A. (1) 1 - Centre of Isotopes, Cuba
14: 45 – 15:00	Q&A	

### 15:00 – 15:30 Coffee Break + Demo (A0051)

A0051 - RECENT DEVELOPMENTS IN VIRTUAL DOSE MINIMISATION GAME FOR EDUCATION, TRAINING AND OUTREACH

Hanifah, Z. (1); Mattingly, G. (1); Riewski, E. (1); Tan, Q. (1); Chun, D. (1); Uddin, R. (1)

1 - University of Illinois at Urbana-Champaign, United States





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### 15:30 – 17:15 Sector specific experiences II

Chair: J.-W. VAHLBRUCH, Leibniz University of Hanover, Germany; Co – Chair: F. Marcuccini, CEA-INSTN, France

ETRAP2017-A0041 15:30 – 15:45	RADIATION PROTECTION TRAINING: TEACHING A COMBINED AUDIENCE - THE GAINS AND THE LOSSES.	Grindrod, E. (1) 1 - Public Health England, United Kingdom
ETRAP2017-A0043 15:45 - 16:00	EDUCATION IN RADIATION PROTECTION FOR MEDICAL STAFF IN TRAINING	Hernandez Gonzalez, D. (1); Chamorro Serrano, P. (1); García Castañon, P. (1); Anson Marcos, C. (1); España Lopez, M. L. (1); Fernández Rodríguez, S. (2); Vicent Garcia, M. D. (2) 1 - Medical Physics Department, University Hospital La Princesa, Madrid, Spain 2 - Servicio de formación especializada, Consejería de Sanidad, Comunidad de Madrid, Spain
ETRAP2017-A0075 16:00 - 16:15	EMERGENCY RESPONSE TRAINING AT THE INTERNATIONAL ATOMIC ENERGY AGENCY	Bramnik, A. (1) 1 - United Nations International Atomic Energy Agency, Austria
ETRAP2017-A0038 16:30 – 16:45	MASTER'S DEGREE APPLIED TO RADIOLOGIC PROTECTION IN RADIOACTIVE AND NUCLEAR INSTALLATIONS	Mayo, P. (1); Verdú, G. (2); Campayo, J. (3) 1 - TITANIA, Spain 2 - UNIVERSITAT POLITECNICA DE VALENCIA, Spain 3 - GRUPO DOMINGUIS ENERGY SERVICES (GDES), Spain
ETRAP2017-A0039 16:45 – 17:00	DEVELOPMENT OF THE ERASMUS+ BLENDED LEARNING TRAINING MODULE MARAWAS: MANAGEMENT OF RADIOACTIVE WASTE	Schreurs, S. (1); Mast, B. (1); Gerardy, I. (2); Schroeeyers, W. (1) 1 – U Hasselt, Belgium 2 - Laboratory of Radiation Physics, ISIB, HE2B, Belgium
17:00 – 17:15	Q&A	

**20:00 ETRAP2017 Conference Dinner  
in El Coso restaurant (Paseo Neptuno 12), Valencia**

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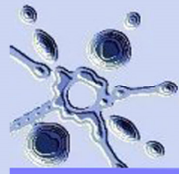
### Friday, 2 June

#### **09:00 – 10:45 Outreach activities**

Chair: M. Gadomska, European Commission, DG Research & Innovation Co-Chair: N. Kesteloot, SCK•CEN, Belgium

ETRAP2017-A0015 09:00 – 09:15	RADIATION EDUCATION IN THE SCIENCE CENTRE DELFT	Huitema, K. (1); De Beer-Kouwenberg, J. (1) 1 - Delft University of Technology, Netherlands
ETRAP2017-A0063 09:15 – 09:30	SPREADING KNOWLEDGE ON RADIATION PROTECTION IN NUCLEAR TECHNOLOGY INFORMATION CENTRE	Koželj, M. (1); Slapar Borišek, V. (1) 1 - Jožef Stefan Institute, Ljubljana, Slovenia
ETRAP2017-A0037 09:30 – 09:45	RADIATION PROTECTION INFORMATION FOR PATIENTS AND WORKERS INVOLVED IN NUCLEAR MEDICINE PROCEDURES	Anson Marcos, C. (1); Chamorro Serrano, P. (1); García Castañón, P. (1); Hernández Gonzalez, D. (1); Castillo Morales, V. (2); Hernandez Perez, I. (2); España Lopez, M. L. (1) 1 - Medical Physics Department, University Hospital La Princesa, Spain 2 - Nuclear Medicine Department, University Hospital La Princesa, Spain
ETRAP2017-A0078 09:45 – 10:00	TEN YEARS OF EXPERIENCE FEEDBACK IN DISSEMINATION OF RADIATION PROTECTION CULTURE: 1,500 HIGH SCHOOL STUDENTS INVOLVED IN RADIATION PROTECTION ACTIONS	Livolsi, P. (1); Schneider, T. (2); D'Ascenzo, L. (2); Charron, S. (3); Remond, P. (4); Bouchot, E. (5) 1 - CEA INSTN - Saclay, France 2 - CEPN - Fontenay aux Roses, France 3 - IRSN - Fontenay aux Roses, France 4 - Centre de Culture Scientifique de Franche-Comté - Montbéliard, France 5 - Autorité de sûreté Nucléaire - Montrouge, France
ETRAP2017-A0088 10:00 – 10:15	OUTREACH ACTIVITIES IN RADIATION PROTECTION FOR HIGH SCHOOL PUPILS AND THEIR TEACHERS	Clarijs, T. (1); Van Puyvelde, L. (1); Kesteloot, N. (1); Coeck, M. (1) 1 - Belgian Nuclear Research Centre, Belgium
ETRAP2017-A0077 10:15 – 10:30	RADIATION PROTECTION COMMUNICATION STRATEGY FOR PUPILS, STUDENTS AND THE PUBLIC	Gatelyte, I. (1); Ziliukas, J. (1) 1 - Radiation Protection Centre, Lithuania
10:30 – 10:45	Q&A	

#### **10:45 – 11:15 Coffee Break**



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### **11:15 – 13:00 Approaches to the implementation of the European BSS requirements for Education and Training**

Chair: B. Godthelp, AVNS, The Netherlands; Co-Chair: J. Ziliukas, RADIATION PROTECTION CENTRE, Lithuania

ETRAP2017-A0096 11:15 – 11:30	ENETRAP III WP7: EUROPEAN GUIDANCE ON THE IMPLEMENTATION OF THE REQUIREMENTS OF THE EURATOM BSS WITH RESPECT TO RPE AND RPO	Paynter, R. (1); Stewart, J. (2); Schmitt-Hannig, A. (3); Coeck, M. (4); Falcao, A. (5)  1 - EUTERP, Netherlands 2 - PHE, United Kingdom 3 - BfS, Germany 4 - SCK-CEN, Belgium 5 - CTN, Portugal
11:30 – 11:45	EURATOM ACTIONS IN SUPPORT TO EDUCATION & TRAINING IN NUCLEAR FISSION AND RADIATION PROTECTION	Gadomska, M. (1)  1 - European Commission, DG Research & Innovation
ETRAP2017-A0002 11:45 – 12:00	IMPLEMENTING THE EU BSS: IMPLICATIONS FOR THE SYSTEM OF EDUCATION AND TRAINING IN GERMANY	Vahlbruch, J.-W. (1)  1 - Leibniz University of Hanover, Institute for Radioecology and Radiation Protection, Germany
ETRAP2017-A0034 12:00 – 12:15	ARRANGEMENTS FOR EDUCATION AND TRAINING WITHIN THE FRAMEWORK OF THE 2013/59/EURATOM DIRECTIVE TRANSPOSITION IN GREEK LEGISLATION.	Karfopoulos, K. (1); Economides, S. (1); Carinou, E. (1); Hourdakis, C. (1)  1 - Greek Atomic Energy Commission (EEAE), Greece
ETRAP2017-A0091 12:15 – 12:30	IMPLEMENTATION OF THE RADIATION PROTECTION EXPERT AND RADIATION PROTECTION OFFICER FROM THE EUROPEAN BASIC SAFETY STANDARDS IN THE NETHERLANDS	Godthelp, B. (1); Vermeulen, T. (1)  1 - Authority for Nuclear Safety and Radiation Protection (ANVS), Netherlands
ETRAP2017-A0089 12:30 – 12:45	THE IRPA GUIDANCE ON CERTIFICATION OF A RADIATION PROTECTION EXPERT	Gallego, E. (1); Lambert, K. (2); Partington, C. (3)  1 - IRPA Vice-president, Universidad Politecnica de Madrid, Spain, Spain 2 - Co-chair of the Working Group, Drexel University, Philadelphia, PA, United States 3 - Co-chair of the Working Group, United Kingdom
12:45 – 13:00	Q&A	

### **13:00 – 13:30 Conclusions and Closing**

Chair: M. Coeck, SCK•CEN, Belgium; R. Paynter, EUTERP, Netherlands

Poster Award announcement

Peter Johnston, Director of Radiation, Transport and Waste Safety, IAEA

### **13:30 – 14:30 – Lunch**



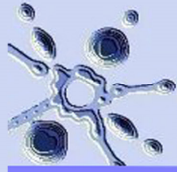
# ETRAP

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### Posters

ETRAP2017-A0040	COMPLIANCE TO DIAGNOSTIC REFERENCE LEVELS FOR RADIATION EXPOSURE IN COMMON RADIOLOGICAL PROCEDURES IN DUTCH HOSPITALS: A NATION-WIDE SURVEY CARRIED OUT BY MEDICAL IMAGING STUDENTS	Bijwaard, H. (1); De vries, G. (1); Scheurleer, J. (1); Roding, T. (1); Erenstein, H. (2); Ravensbergen, W. (2); Haarmans-Jonkman, S. (2); Van Welie, F. (3) 1 - Inholland University of Applied Sciences, Netherlands 2 - Hanze University of Applied Sciences, Netherlands 3 - Fontys University of Applied Sciences, Netherlands
ETRAP2017-A0057	DEVELOPMENT OF A SPECIALISED TRAINING COURSE FOR THE RADIATION PROTECTION WORKERS OF VVER TECHNOLOGY (CORONA II)	Pesznyak, C. (1); Kiss, A. (1); Cservenak, I. (1); Elek, R. (1); Csige, A. (1); Geraskin, N. (2); Apse, V. (2); D. Porras, P. (3); Klepakova, A. (4); Ilieva, M. (5); Pironkov, L. (6) 1 - Budapest University of Technology and Economics (BME), Hungary 2 - National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Russian Federation 3 - European Nuclear Education Network (ENEN), France 4 - Research Center Řež (CVR), Czech Republic 5 - Risk Engineering (REL), Bulgaria 6 - Kozloduy Nuclear Power Plant (KNPP), Bulgaria
ETRAP2017-A0008	ENHANCING RADIATION SAFETY IN AUSTRALIA THROUGH APPLIED TRAINING AND OUTREACH	Popp, A. (1); Paneras, T. (2); Dowler, R. (3) 1 - Radiation Protection Services, Australian Nuclear Science and Technology Organisation (ANSTO), Australia 2 - ANSTO Radiation Services, Australia 3 - ANSTO Discovery Centre, Australia
ETRAP2017-A0032	KNOWLEDGE MANAGEMENT IN THE FIELD OF RADIATION SAFETY IN GREECE: THE PERSPECTIVE OF THE RADIATION SAFETY REGULATORY AUTHORITY	Tafili, V. (1); Karfopoulos, K. (1) 1 - Greek Atomic Energy Commission (EEAE), Greece
ETRAP2017-A0033	STAKEHOLDER INVOLVEMENT DURING THE EUROPEAN BSS DIRECTIVE TRANSPOSITION: A NATIONAL EXAMPLE	Tafili, V. (1); Carinou, E. (1); Hourdakis, C. (1); Karfopoulos, K. (1); Housiadas, C. (1) 1 - Greek Atomic Energy Commission (EEAE), Greece
ETRAP2017-A0035	CUSTOMIZED INFORMATION FOR OUTPATIENTS FOLLOWING A I-131 THERAPY	Garcia Castañon, P. (1); Chamorro Serrano, P. (1); Anson Marcos, C. (1); Hernandez Gonzalez, D. (1); Castillo Morales, V. (2); Hernandez Perez, I. (2); España Lopez, M. L. (2) 1 - Medical Physics Department, University Hospital La Princesa, Madrid, Spain 2 - Nuclear Medicine Department, University Hospital La Princesa, Madrid, Spain



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ETRAP2017-A0045	APPLICATIONS OF IONIZING RADIATION - DISCLOSURE IS NECESSARY	Machado, E. (1); Fama, F. (2); De Paula, G. (3); Alves, M. (3); Silva, A. (2); Alves, A. (2) 1 - Instituto Federal de Educação do Rio de Janeiro, Brazil 2 - Instituto de Radioproteção e Dosimetria, Brazil 3 - Escola SESC de Ensino Medio, Brazil
ETRAP2017-A0046	THE COMPREHENSIVE INFORMATION SYSTEM FOR NORM MANAGEMENT IN KOREA	Woo, Z. (1) 1 - Korea Institute of Nuclear Safety, Korea, Republic of
ETRAP2017-A0065	DEVELOPMENT OF RADIATION RESEARCH CAPACITY IN IRELAND	Currivan, L. (1); Rafferty, B. (1); Fennell, S. (1) 1 - Environmental Protection Agency, Office of Radiological Protection , Ireland
ETRAP2017-A0044	THE ROLE OF VERT IN RADIATION PROTECTION EDUCATION	Hakkert, M. (1); Wit, F. (1) 1 - University of Applied Science Inholland Haarlem, Netherlands
ETRAP2017-A0047	THE INITIAL KNOWLEDGE LEVEL OF THE PARTICIPANTS TO RADIATION PROTECTION COURSES	Stanescu, G. (1) 1 - "Horia Hulubei" National Institute of Physics and Nuclear Engineering – IFIN HH, Nuclear Training Centre, Romania
ETRAP2017-A0048	POTENTIAL FOR ACTIVE ENGAGEMENT IN RADIATION PROTECTION TRAINING	Wilson, iv, C. A. (1); Wang, W.-H. (1) 1 - Louisiana State University, United States
ETRAP2017-A0053	THE DEVELOPMENT OF A DISTANCE LEARNING PLATFORM TO SUPPORT THE BLENDED LEARNING APPROACH FOR THE TRAINING ACTIVITIES OF THE GREEK ATOMIC ENERGY COMMISSION	Karfopoulos, K. (1); Petri, A. (1); Veltsos, K. (1) 1 - Greek Atomic Energy Commission (EEAE), Greece
ETRAP2017-A0060	RESEARCH AND EDUCATIONAL PORTAL OF NUCLEAR KNOWLEDGE BELNET AND ITS ROLE IN EDUCATION AND TRAINING ON RADIATION PROTECTION	Timoshchenko, A. (1); Charapitsa, S. (2); Dezhurko, M. (1); Dubovskaya, I. (1); Kimlenka, I. (1); Savitskaya, T. (1); Kavalenka, A. (2); Lobko, A. (2); Mazanik, A. (2); Polyak, N. (1); Sytova, S. (2); Sidorovich, T. (3) 1 - Belarusian State University, Belarus 2 - Institute for Nuclear Problems of Belarusian State University, Belarus 3 - Brest State Technical University, Belarus
ETRAP2017-A0071	TRAINING SYSTEM FOR CENTRAL COMMAND POST PERSONAL USING AIRBORNE CONTAMINATION SIMULATION	Kadmon, Y. (1); Vax, E. (1); Sarusi, B. (1); Portnoy, D. (1); Osovitzky, A. (2); Mazor, T. (1); Broide, A. (1) 1 - NRCN, Nuclear Research Center Negev , Israel 2 - Rotem Industries, Rotem Industrial park, Israel
ETRAP2017-A0087	CHALLENGES IN PRACTICAL TRAINING EVENTS AT AN ACADEMIC INSTITUTION	Hoyler, F. (1) 1 - Aachen University of Applied Sciences (AcUAS), Germany
ETRAP2017-A0058	FINAL RESULTS OF A SURVEY ON THE AWARENESS OF THE RADIATION PROTECTION IN MEDICAL SECTOR IN TURKEY	Yildiz Yarar, Y. (1); Kara, Ö. E. (1) 1 - YILDIZ TECHNICAL UNIVERSITY, Turkey

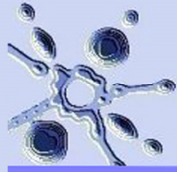


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ETRAP2017-A0022	RADIATION PROTECTION EDUCATION AND TRAINING PROCESS FROM CLASSROOM TO CLINICS	Badawy, M. (1); Deb, P. (1) 1 - School of Health and Biomedical Sciences, RMIT University, Australia
ETRAP2017-A0024	RADIATION PROTECTION PROFESSIONALS AND RADIATION WORKERS IN NUCLEAR FACILITIES: INTERNATIONAL OVERVIEW ABOUT REQUIREMENTS ON EDUCATION AND TRAINING	Jahn, S.-G. (1) 1 - Swiss Federal Nuclear Safety Inspectorate, ENSI, Switzerland
ETRAP2017-A0028	SHAERADISS: A PROPOSAL FOR A EUROPEAN RADON TRAINING NETWORK	Sainz, C. (1); Gutierrez, J. L. (1); Fuente, I. (1); Quindós, L. S. (1) 1 - RADON Group, Laboratorio de Radiactividad Ambiental (LARUC), University of Cantabria, Spain
ETRAP2017-A0079	PRACTICAL LEARNING FOR EXTERNAL BEAM RADIOTHERAPY TREATMENT PLANNING USING OPEN SOURCE PLANNERS	Gómez-Zarzuela Quel, C. (1); Abarca Giménez, A. (1); Bernal García, Á. (1); Morató Rafet, S. (1); Querol Vives, A. (1); Miró Herrero, R. (1); Verdú Martín, G. (1) 1 - ISIRYM-UPV (Instituto Universitario de Seguridad Industrial Radiofísica y Medioambiental), Spain
ETRAP2017-A0080	TRAINING IN EXTERNAL DOSIMETRY CALCULATIONS WITH COMPUTATIONAL CODES	Bernal García, Á. (1); Morató Rafet, S. (1); Abarca Giménez, A. (1); Gomez-Zarzuela Quel, C. (1); Querol Vives, A. (1); Miró Herrero, R. (1); Verdú Martín, G. (1) 1 - ISIRYM-UPV (Instituto Universitario de Seguridad Industrial Radiofísica y Medioambiental), Spain
ETRAP2017-A0081	TEACHING COMPUTATIONAL CAPABILITY FOR RADIATION PROTECTION AND SHIELDING IN SCALE	Labarile, A. (1); Bernal García, Á. (1); Abarca Giménez, A. (1); Barrachina Celda, T. (1); Miró Herrero, R. (1); Verdú Martín, G. (1) 1 - ISIRYM-UPV (Instituto Universitario de Seguridad Industrial Radiofísica y Medioambiental), Spain
ETRAP2017-A0003	5TH EUROPEAN IRPA CONGRESS, THE HAGUE 2018: ENCOURAGING SUSTAINABILITY IN RADIATION PROTECTION	Boersma, H. F. (1); Gerritsen, B. (2); Jonkers, G. (2); Kops, J. (3); Roobol, L. (4); Carel, T. (2) 1 - Foundation The Hague 2018 / University of Groningen, Netherlands 2 - Foundation The Hague 2018, Netherlands 3 - KOAD Consultancy, Netherlands 4 - National Institute for Public Health and The Environment (RIVM), Netherlands
ETRAP2017-A0005	TRAINING COURSE ON RADIATION PROTECTION MONITOR CALIBRATION. AN EXAMPLE OF COLLABORATION BETWEEN PROFESSIONAL SOCIETIES, METROLOGY EXPERTS AND RADIATION PROTECTION PRACTITIONERS.	Ginjaume, M. (1); Cornejo, N. (2); Palma, J. D. (2); Duch, M. A. (3); Roig, M. (3) 1 - Sociedad Española de Protección Radiológica (SEPR), Spain 2 - Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Spain



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ETRAP2017-A0023	NUCLEAR AND RADIOLOGICAL SECURITY AND SAFETY TRAINING COURSES. REGIMIENTO NBQ-CIEMAT EXPERIENCE.	Quesada, R. (1); Castro, I. (1); Alvarez, A. (2); Saez, J. C. (2); Quiñones, J. (2) 1 - Regimiento NBQ, Spain 2 - CIEMAT, Spain
ETRAP2017-A0031	RCA/UNDP PROJECT ON PROMOTING AND ACCELERATING NUCLEAR SPECT/PET IMAGING TECHNOLOGIES IN THE REGION- ACHIEVEMENTS AND FUTURE DIRECTION	Soo Youn, H. (1); Kader Ibrahim, S. (2) 1 - RCA Regional Office, Korea, Republic of 2 - Malaysia Nuclear Agency, Malaysia
ETRAP2017-A0072	EDUCATION AND TRAINING ACTIVITIES OF FISSION TECHNOLOGY PLATFORM CEIDEN	Mayo, P. (1); De la Cruz, T. (2) 1 - Titania Servicios Tecnológicos, S. L. Innovation Center, Spain 2 - Spanish Nuclear Forum, Spain
ETRAP2017-A0092	ACTIVITIES OF EUTERP, THE EUROPEAN TRAINING AND EDUCATION IN RADIATION PROTECTION FOUNDATION	Allisy, P. (1); Coeck, M. (2); Draaisma, F. (3); Hoyler, F. (4); Paynter, R. (5); Schouwenburg, M. (6); Stewart, J. (7) 1 - European Federation of Organisations for Medical Physics (EFOMP), United Kingdom 2 - Belgian Nuclear Research Centre (SCK-CEN), Belgium 3 - Nuclear Research and consultancy Group (NRG), Netherlands 4 - Qualitätsverbund Strahlenschutzkursstätten (QSK), Germany 5 - RadPro Consulting (RadPRO), United Kingdom 6 - Delft University of Technology (TU Delft), Netherlands 7 - Public Health England (PHE), United Kingdom
ETRAP2017-A0098	TRAINING OF RADIATION CONTROL AREA WORKERS AT LOVIISA NPP	Koivisto, M. (1); Virtanen, M. (1) 1 - Fortum Power and Heat Oy, Loviisa NPP, Finland