EFOMP and its involvement in European E&T projects

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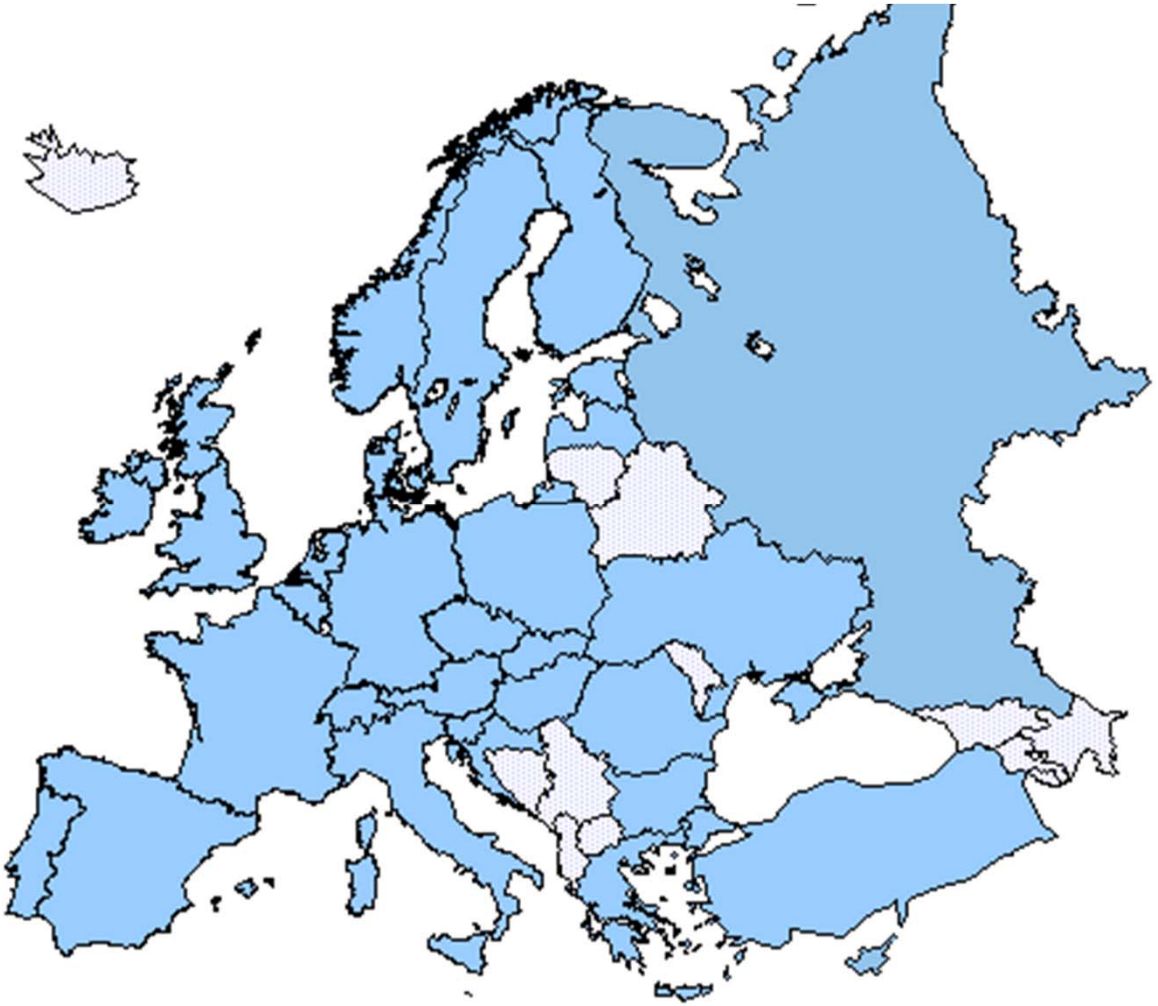


EFOMP and its involvement in European E&T projects

OUTLINE

- EFOMP – Short Introduction
- The MPE Project
- The EMAN Project
- The MEDRAPET Project

MPE
MEDICAL PHYSICS EXPERT

eman
European Medical ALARA Network

MEDRAPET
Medical Radiation Protection
EDUCATION AND TRAINING

EFOMP and its involvement in European E&T projects

EFOMP – Short Introduction

EFOMP is the:
European Federation of Organisations for Medical Physics.

EFOMP was founded in 1980. The current membership covers 34 national organisations and 1 affiliated national organisation which together represent more than 6000 physicists in the field of Medical Physics.

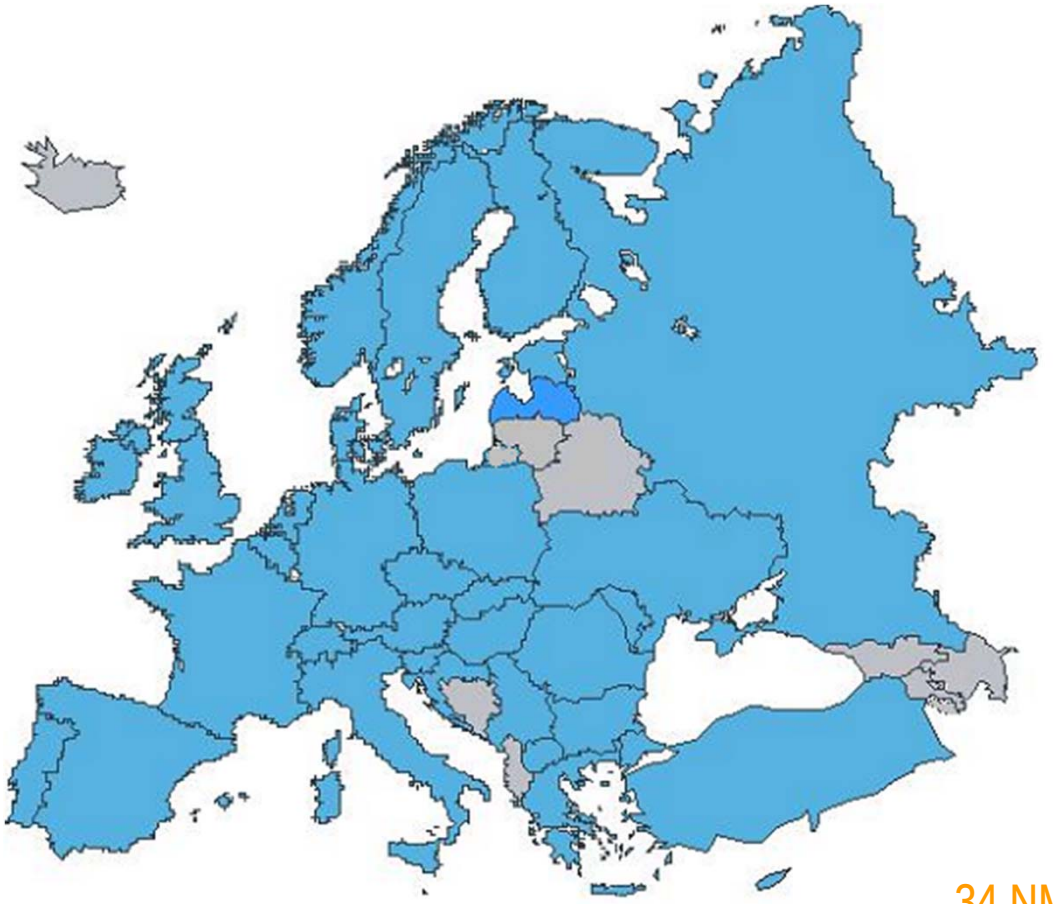
All EFOMP actions are based on its constitution, which also defines the structure of the organisation.

The constitution and other relevant information can be found at the EFOMP Website (www.efomp.org).

EFOMP and its involvement in European E&T projects

Current EFOMP Membership

Austria
Belgium
Bulgaria
Croatia
Cyprus
Czech Republic
Denmark
Eire
Estonia
Finland
France
FYRO Macedonia
Germany
Greece
Hungary
Italy
Latvia
Malta
Moldova
Netherlands



Norway
Poland
Portugal
Romania
Russia
Serbia and Montenegro
Slovakia
Slovenia
Spain
Sweden
Switzerland
Turkey
Ukraine
United Kingdom

Israel

34 NMOs

EFOMP and its involvement in European E&T projects

Missing European Union Countries

- **Lithuania – trying to set up an Umbrella Organisation**
- **Luxembourg – currently has only 8 Medical Physicists**

EFOMP can be considered the vehicle for harmonising Medical Physics in the European Union Member States.

EFOMP and its involvement in European E&T projects

Mission and Objectives, 1980

- **Proposing guidelines** for education, training and accreditation programmes
- **Making recommendations** on the appropriate general responsibilities…
- **Encouraging the formation of organisations** for Medical Physics where such organisations do not exist

EFOMP and its involvement in European E&T projects

Mission and Objectives, today

- Policy Statements
- Registration Scheme
- Continuous Professional Development – CPD
- Collaboration with other organisations

  EU, ESTRO, ESR, EANM, ESMRMB, EIBIR, IAEA, WHO, IOMP, IFMBE, IUPESM, ICSU, …..

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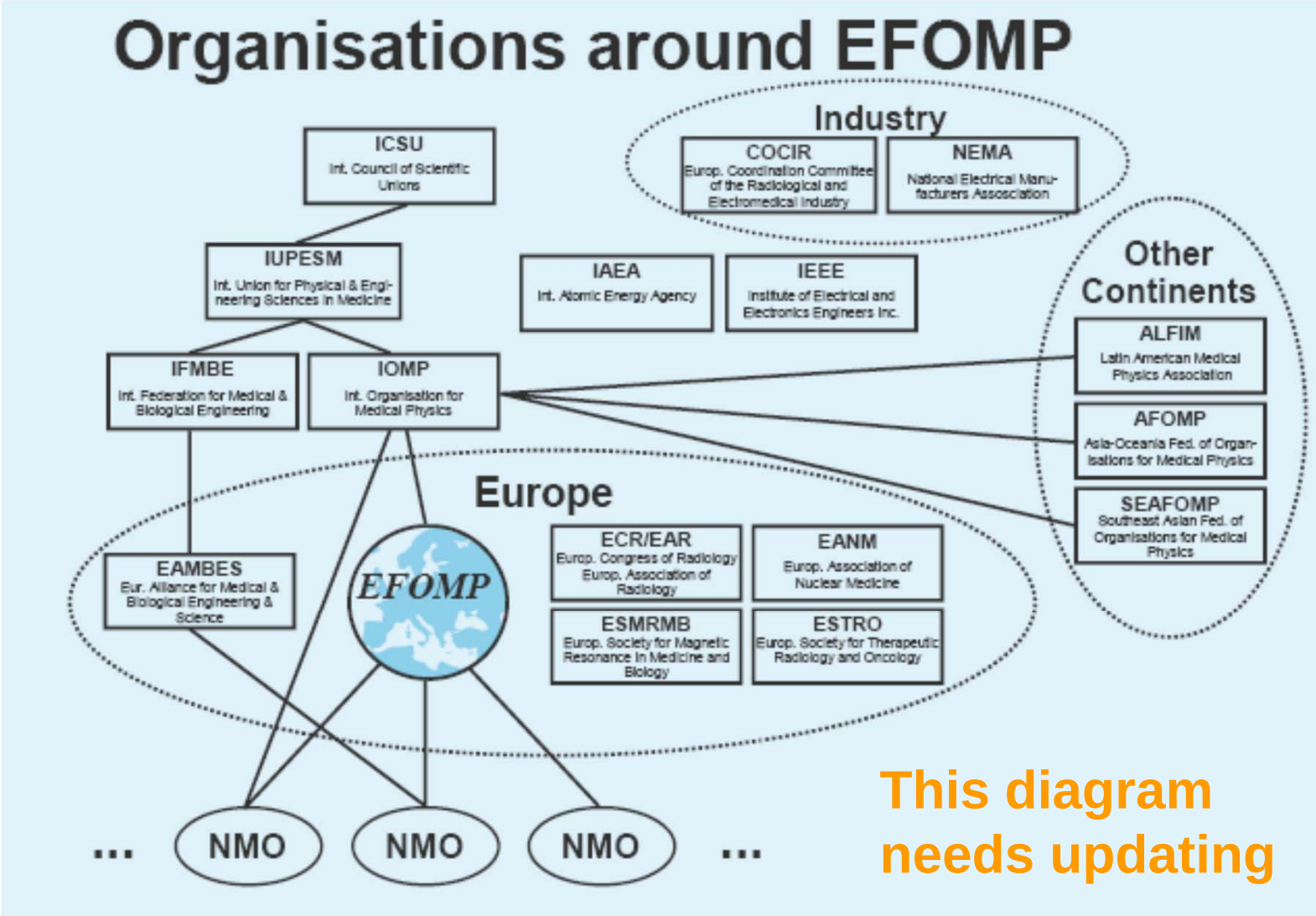


EFOMP and its involvement in European E&T projects

- **The MPE Project**

http://portal.ucm.es/web/medical-physics-expert-project/inicio

Project Objective:

The objective of this project is to provide for improved implementation of the Medical Exposures Directive (MED) provisions related to the Medical Physics Expert (MPE) and to facilitate the harmonization of the MPE among Member States aiming at their cross-border mobility. In order to achieve this objective the contractor shall carry out three major tasks:

- **Conduct an EU-wide study on the MPE**
- **Organize a European Workshop on MPE**
- **Develop EU Guidance on MPE**

The Project Contractor

The project was undertaken by a consortium consisting of the following organisations:

Coordinator

Medical Physics Group, Department of Radiology, Complutense University of Madrid, (UCM), Spain

Partners

- European Federation of Medical Physics (EFOMP), UK
- Institute of Physics and Engineering in Medicine (IPEM), UK
- Department of Physics, "Enrico Fermi", University of Pisa, Italy
- German Society of Medical Physics (DGMP), Germany
- North East Strategic Health Authority North East; Yorkshire and the Humber Quality Assurance Reference Centre, United Kingdom and associated participants

Observer

World Health Organisation (WHO)

Duration of Contract

The contract was signed on the 30th of December 2009 and its duration is 24 months. The project is to end on the 30th of December 2011.

- **Conduct an EU-wide study on the MPE**

  The EU-wide Study on the MPE was agreed by the project consortium to be conducted by:

  - **A questionnaire to assess the present situation regarding the MPE role and resources (including human) and get the views of the MPEs on what they are presently doing and where they see themselves heading.**
  - **A questionnaire to assess the present situation with staffing levels and the future requirements**
  - **To undertake a representative number of qualitative interviews with key informants**

- **The questionnaire to assess the present situation**

The members of the Consortium agreed that the questionnaire should include the following:

1. **Interpretation and implementation of the draft BSS:**
   - **a. What duties do MPE perceive they have in the draft BSS / what duties do other stakeholders perceive the MPE should have?**
   - **b. What are the actual present responsibilities of the MPE and how do they differ from those in the draft BSS?**
   - **c. What are the perceived required number of MPE (per notional unit of work e.g. population, equipment, clinical procedure) and resources necessary to provide for the requirements of the draft BSS?**
   - **d. What are the actual number of MPE (per notional unit of work e.g. population, equipment, clinical procedure) and available resources? (separate data for DR, NM, RT)**

- **The questionnaire to assess the present situation**

2. MP profession and the MPE:

a. Status, legal and practical arrangements for training, education and recognition of MP and MPE

b. Other responsibilities presently exercised by MP not included in the provisions regarding the MPE within the draft BSS e.g., Radiation Protection Expert

c. Mutual recognition between member states and other barriers to mobility. How many MPE who did their education and training in another country?

d. How is the word 'expert' perceived by MPE / other stakeholders? Is advice provided by MPE acted upon? Are MPE expected / allowed to provide unsolicited advice? Is the role constricted by statutory requirements? Is MPE a consultant level appointment?

- The questionnaire to assess the present situation

2. MP profession and the MPE:

   e. Do MP have their own department or part of another (e.g., DR, NM, RT)?

   f. Do MP departments include members from other professions?

   g. Opinions of the MPE regarding the future development of their role

   h. Who employs MPE and how are they recruited?

Some 800 responses have been received from the questionnaire and these are currently being analysed. The results will be presented at the Project's Workshop.

- **A questionnaire to assess the present situation with staffing levels and the future requirements**

  A survey questionnaire was devised to collect data on individual departments actual staffing levels.

  Currently 127 responses were submitted.

- **To undertake a representative number of qualitative interviews with key informants**

  This was undertaken during the IAEA IDOS Symposium in November 2010.

  Forty interviews were conducted and are currently being analysed.

The results and the conclusions of the above surveys and interviews will be presented and discussed at the projects Workshop.

- **Organize a European Workshop on MPE**

  The Workshop will be held as a satellite workshop to the National Spanish Congress on Medical Physics and Radiation Protection at Seville, from Sunday afternoon the 8th of May till Tuesday morning the 10th of May 2011.

- **Develop EU Guidance on MPE**
  - ✓ **Education and recognition scheme**
  - ✓ **Detailed "standard" syllabus for the education and training of MPE**
  - ✓ **Recommended number of MPE for the different practices and the parameters to be considered**

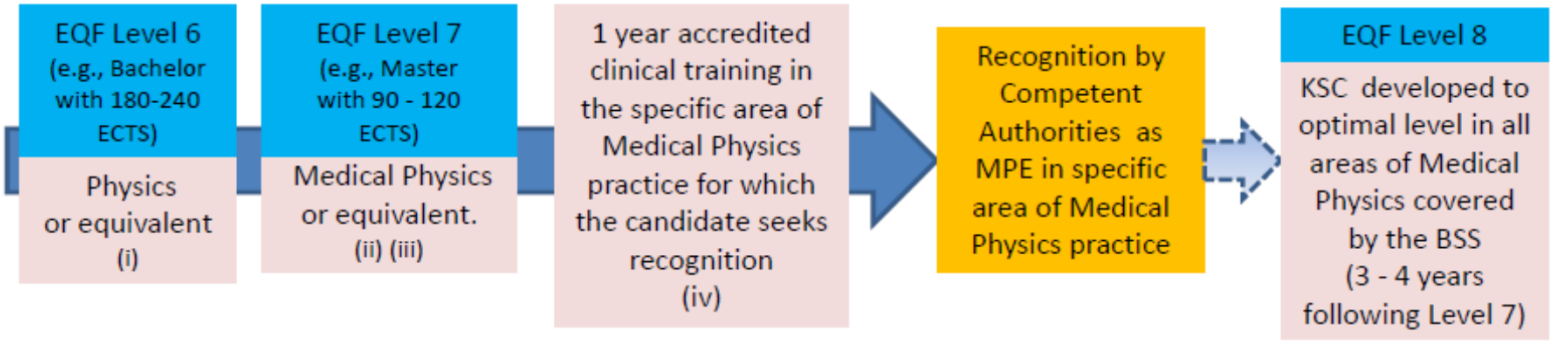
The first draft of the guidelines document will be send, at the beginning of April, to the stakeholders that are invited to participate at the Workshop so that they will be prepared to express their comments and suggestions for their improvement before this is submitted to the European Commission as a final draft document.

Universidad Complutense Madrid · EFOMP · IPEM · Università di Pisa · DGMP · NHS

Qualification Framework for the MPE in Europe

Medical Physics Expert: "An individual having the knowledge, training and experience to act or give advice on matters relating to radiation physics applied to medical exposure, whose competence to act is recognized by the Competent Authorities" (Recast BSS)

EQF = European Qualifications Framework KSC = Knowledge, Skills, Competences (EP&C, 2008/C 111/01)



(i) 'Equivalent' here meaning EQF Level 6 with a high level of physics and mathematics content.

(ii) 'Equivalent' here meaning EQF Level 7 with a high level of physics and mathematics content, plus further additional education in the Core KSC of Medical Physics (as specified in this document) and the KSC specific to the area of Medical Physics for which the candidate would be seeking recognition (as specified in this document).

(iii) The entry level for the MPE has been set at EQF Level 7 because to provide effective, safe and economical practice based on current best evidence, the MPE requires highly specialized knowledge, critical awareness of knowledge issues in the field, specialized problem-solving skills, ability to manage work contexts that are complex and ability to review the performance of teams (2008/C 111/01).

(iv) Accredited credentialing training programme for further on-the-job development of the Core KSC of Medical Physics (as specified in this document) and the KSC specific to the area of Medical Physics for which the candidate would be seeking recognition (as specified in this document). This training should ideally take the form of a Residency.

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The outcome of the project will be a set of standards for the Medical Physics Expert in Europe. This will allow development of :

- ✓ **Harmonization of education (MSc "tuning")**
- ✓ **Standards for clinical skills and training**
- ✓ **European wide professional recognition**
- ✓ **Continuous professional development**
- ✓ **Education and training**
- ✓ **Aid in mobility of medical physicists**

Radiation Protection is an integral and essential part of all these activities.

Information is available on the Project's Website at:
http://portal.ucm.es/web/medical-physics-expert-project/inicio

EFOMP and its involvement in European E&T projects

The EMAN Project

European Medical ALARA Network

http://www.eman-network.eu/

Contract Objectives

The main objective of this project is to establish a sustainable European Medical ALARA Network (EMAN) where different stakeholders within the medical sector will have the opportunity to discuss and to exchange information on various topics relating to the implementation of the ALARA principle in the medical field.

This network will also support the European Commission (EC) in its activities relating to the optimisation of radiation protection of individuals submitted to medical exposures.

In addition, EMAN will also aim to:

European Medical ALARA Network

- **Disseminate up-to-date information about literature, studies, research and good practices relating to the ALARA principle in the medical sector,**
- **Identify and communicate to the EC needs for development and update of European Union (EU) guidance,**
- **In particular cover the areas of education and training as well as continuous quality improvement as requested in the Directive 97/43 EURATOM**
- **Formulate proposals to the EC on harmonization issues,**
- **Propose to the EC solutions of identified issues at the European level,**
- **Establish co-operation with appropriate international organizations and associations.**

Consortium

Coordinator

SSM (Swedish Radiation Safety Authority), represented by Anja Almén

Partners

BfS (Federal Office of Radiation Protection, Germany), represented by **Jürgen Griebel**

CEPN (Nuclear Protection Evaluation Center, France), represented by **Caroline Schieber**

ESR (European Society of Radiology), represented **Peter Vock**

EURADOS (Radiation Dosimetry Group e. V.), represented by Filip Vanhavere

EFOMP (European Federation of Organisations for Medical Physics), represented by **Stelios Christofides**

EFRS (European Federation of Radiographer Societies), represented by **Dorien Pronk-Larive**

Work Programme

The project is broken down in Work Packages (WP). Each WP is chaired by a work package leader, coming from one of the consortium partners.

WP 0 Management of the project, SSM (Anja Almén)

WP1 Establishment of a Working Group (WG1)on Optimisation of patient and occupational exposures in CT procedures , BfS (Juergen Griebel)

WP2 Establishment of a Working Group (WG2) on Optimisation of patient and occupational exposure in interventional radiology, ESR (Hubert Ducou le Pointe)

WP3 Establishment of a Working Group (WG3) on Radiological safety for patients and personnel in activities using X-ray equipment outside the X-ray departments, EFOMP (Renato Padovani)

WP4 Establishment, update and technical maintenance of the website, CEPN (Caroline Schieber),

WP5 Elaboration of a methodology to set up and run EMAN, SSM (Anja Almén)

WP6 Organisation of a European workshop on EMAN results, SSM (Anja Almén)

Project Duration and Current Status

Project Duration

The duration of the project is for 36 months, bringing it to a conclusion at the end of 2012, at which time a self sustainable network should have been established.

Current Status

The synthesis documents of the three work packages (WP1, WP2 and WP3) are at their final draft stage.

The workshop (WP6) will take place around April 2012. The exact date and time will be confirmed at the next Steering Committee meeting on the 31st of March 2011.

The Website of the Project has been established and it is updated continuously. There you can find detailed information about the project (http://www.eman-network.eu/).

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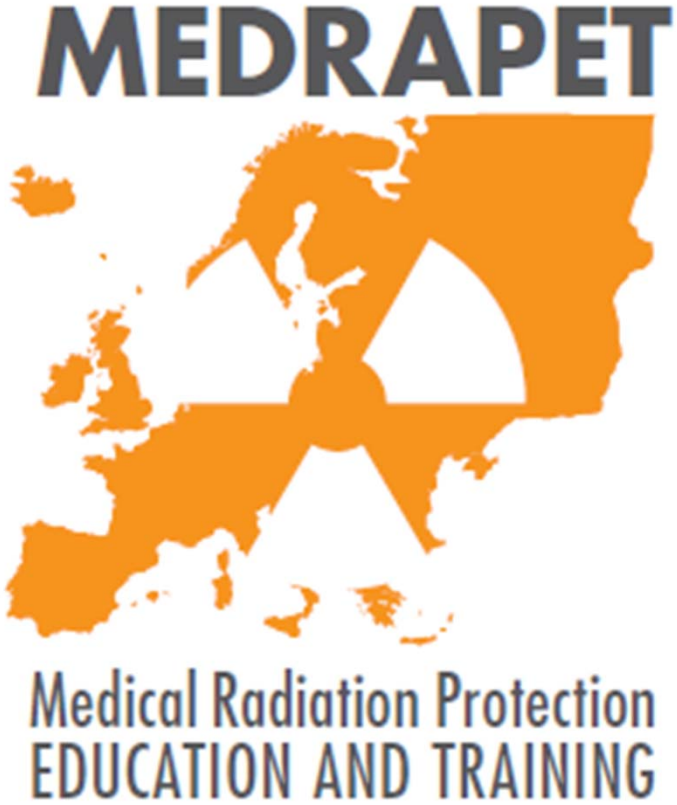
The MEDRAPET Project



Study on the Implementation of the Medical Exposure Directive's Requirements on Radiation Protection Training of Medical Professionals in the European Union

http://www.----------

MEDRAPET
Medical Radiation Protection
EDUCATION AND TRAINING

Project Objectives

This is a new project that started on the 31st of December 2010. Its Kick-off meeting was held in Luxembourg on the 4th of February 2011.

The overall aim of this project is to provide an improved implementation of the Medical Exposure Directive provisions related to radiation protection education and training of medical professionals in the EU Member States.

The activities of the proposed project will focus on three main tasks:

- **The conduction of an EU-wide study on radiation protection training of medical professionals in the EU Member States**
- **The organisation of a European Workshop on radiation protection training of medical professionals in the EU Member States**
- **The development of a European Guidance document on radiation protection training of medical professionals**

MEDRAPET

Medical Radiation Protection
EDUCATION AND TRAINING

Project Objectives

As a result of the European Guidance, the creation of a permanent multidisciplinary working party to draft and maintain European standard sets of competences at various levels for minimum radiation protection training and CPD required for all different groups of medical staff working with ionising radiation shall be envisaged.

MEDRAPET

Medical Radiation Protection
EDUCATION AND TRAINING

Consortium

Coordinator

ESR (European Society of Radiology), represented by **John Damilakis**

Partners

EFRS (European Federation of Radiographer Societies), represented by **Graciano Paulo**

EFOMP (European Federation of Organisations for Medical Physics), represented by **Stelios Christofides**

ESTRO (European Society for Therapeutic Radiology and Oncology), represented by **Dag Rune Olsen**

EANM (European Association of Nuclear Medicine), represented by **Wolfram Knapp**

CIRSE (Cardiovascular and Interventional Radiological Society of Europe), represented by **Dimitrios K. Tsetis**

MEDRAPET

Medical Radiation Protection
EDUCATION AND TRAINING

Work Programme

The project is broken down in Work Packages (WP). Each WP is chaired by a work package leader, coming from one of the consortium partners.

WP0 Project Management - ESR (John Damilakis, Monika Hierath)

WP1 Development and implementation of EU study on radiation protection training of medical professionals in the EU Member States - EFRS (Graciano Paulo, supported by another representative of EFRS to be selected from EFRS members)

WP2 Organisation of a European Workshop on radiation protection training of medical professionals in the EU Member States - ESR (John Damilakis)

WP3 Develop European Guidance on radiation protection training of medical Professionals - EFOMP (Stelios Christofides, supported by Carmel Caruana and Jim Malone)

MEDRAPET
Medical Radiation Protection
EDUCATION AND TRAINING

Project Duration and Current Status

Project Duration

The duration of the project is for 27 months, bringing it to a conclusion at the end of March 2013.

Current Status

All Work Packages have started work but as this project is at its initial stage most of the work is concentrated on WP1, the conclusions of which will feed the work of WP3.

The Workshop of this project is planned to take place around April 2012. Its exact date and venue will be decided at the next Steering Committee meeting that will take place in July 2011 in Vienna.