European Federation of Organizations for Medical Physics

EFOMP

Εξελίξεις 2015 και Προοπτικές 2016

Καθ. Γιάννης Δαμηλάκης
Πρόεδρος EFOMP

HOW DOES EFOMP RELATE TO EUROPEAN SOCIETIES REPRESENTING MEDICAL SPECIALTIES ?

ESR

EANM

ESTRO

Sign Memorandum of Agreement

Involve them in EFOMP activities

Support the medical physics groups in these societies

Relationship with other societies

We have signed Memoranda of Understanding:

EANM

ESTRO

ESMRMB

MELODI (2014)

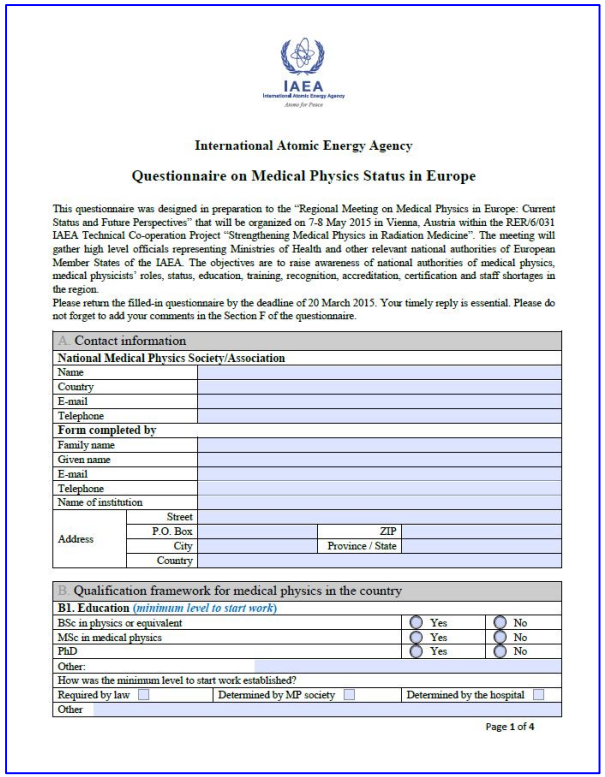
EFRS (2015)

AAPM (2015)

ESR (2015)

RELATIONSHIP WITH IAEA

Main contribution to the IAEA high-level meeting ‘Regional meeting on Medical Physics in Europe: Current status and future perspectives’ (2015)



International Atomic Energy Agency

Questionnaire on Medical Physics Status in Europe

This questionnaire was designed in preparation to the “Regional Meeting on Medical Physics in Europe: Current Status and Future Perspectives” that will be organized on 7-8 May 2015 in Vienna, Austria within the RER/6/031 IAEA Technical Co-operation Project “Strengthening Medical Physics in Radiation Medicine”. The meeting will gather high level officials representing Ministries of Health and other relevant national authorities of European Member States of the IAEA. The objectives are to raise awareness of national authorities of medical physics, medical physicists’ roles, status, education, training, recognition, accreditation, certification and staff shortages in the region.
Please return the filled-in questionnaire by the deadline of 20 March 2015. Your timely reply is essential. Please do not forget to add your comments in the Section F of the questionnaire.

A. Contact information				
National Medical Physics Society/Association				
Name				
Country				
E-mail				
Telephone				
Form completed by				
Family name				
Given name				
E-mail				
Telephone				
Name of institution				
Address	Street			
	P.O. Box		ZIP	
	City		Province / State	
	Country			

B. Qualification framework for medical physics in the country		
B1. Education (*minimum level to start work*)		
BSc in physics or equivalent	○ Yes	○ No
MSc in medical physics	○ Yes	○ No
PhD	○ Yes	○ No
Other:		
How was the minimmm level to start work established?		
Required by law ☐	Determined by MP society ☐	Determined by the hospital ☐
Other		

Page 1 of 4

RELATIONSHIP WITH IAEA

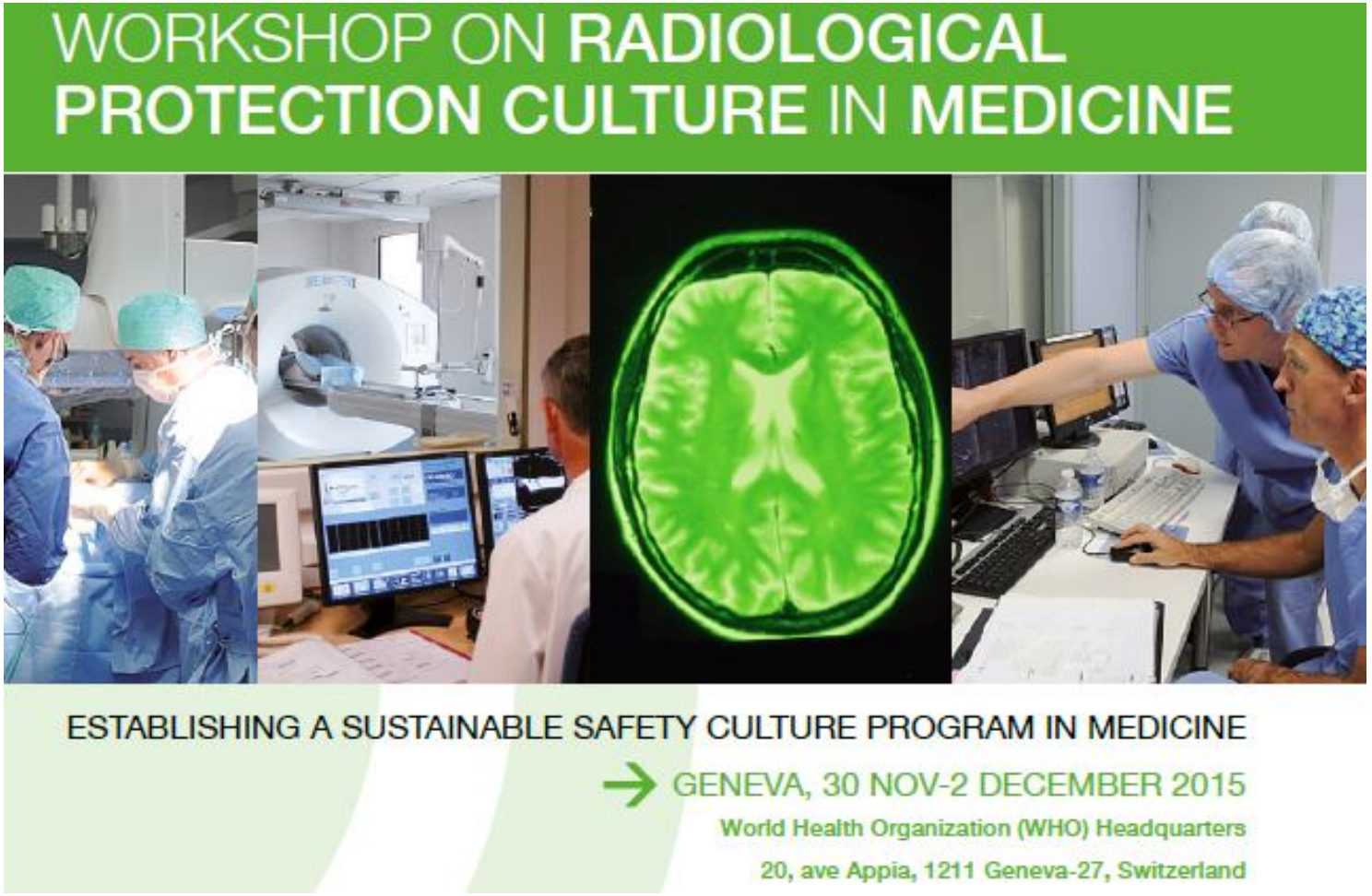
Active participation in IAEA conferences:

- Int. Conf. on Clinical PET and Molecular Imaging
  (5-9 Oct 2015)

- Meeting to discuss the current status of dosimetry in NM and assess the need and possible content of a publication
  (2-6 Nov 2015)

EFOMP

RELATIONSHIP WITH WHO



RELATIONSHIP WITH HERCA

Addendum to HERCA CT Position paper
The process of CT dose optimisation through education and training and the role of the Manufacturers

Feedback from the European Coordination Committee of the Radiological, Electromedical and Healthcare IT Industry (COCIR), the European Society of Radiology (ESR), the European Association of Nuclear Medicine (EANM), the European Federation of Radiographer Societies (EFRS) and the European Federation of Organisations ~~in~~ for Medical Physics (EFOMP) on the HERCA CT position paper

06.08.2015

On 1st April, HERCA (Heads of the European Radiological protection Competent Authorities) organised a multi-stakeholder meeting kindly hosted by the French Nuclear Safety Authority (ASN) in its premises in Paris. The stakeholders included:

COCIR, supported by the main manufacturers of CT equipment (GE, Philips, Siemens and Toshiba),

- The professional organisations: ESR, ESPR, EFRS, EANM, ESTRO and EFOMP,

EFOMP COMMITTEES

Education & Training

Projects

EU Matters

Scientific

Communications & Publications

Professional Matters

EUROPEAN BOARD FOR ACCREDITATION IN MEDICAL PHYSICS (EBAMP)

The EBAMP will accredit medical physics education and training events. Initially its work will be limited to allocating CPD credits depending on the number of hours of education and hands-on training required of participants.

EFOMP EXAMINATION BOARD (EEB)

The EEB will have the responsibility for two types of assessment:

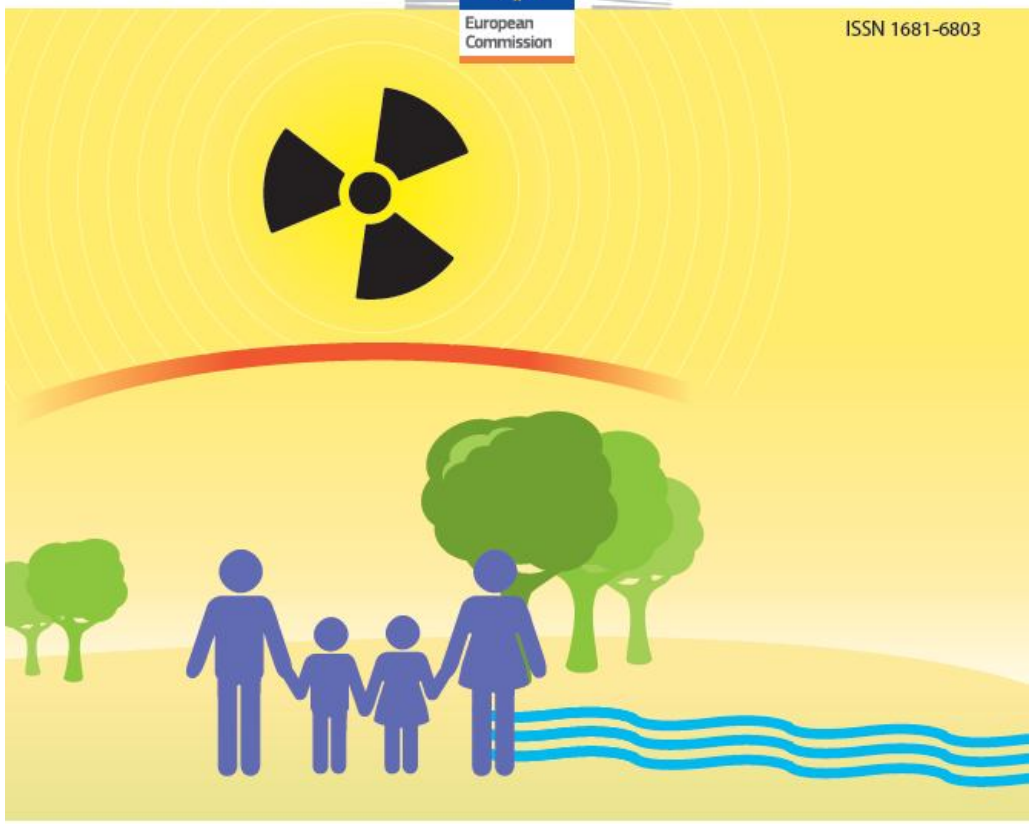
It will award a European Diploma of Medical Physics (EDMP) as recognition that that the holder is qualified to Master's degree level and has at least 2 years equivalent clinical training in the field of medical physics.

EFOMP EXAMINATION BOARD (EEB)

It will also examine candidates against the criteria set by RP 174 and award the European Attestation Certificate to those who have reached the level of the Medical Physics Expert (EACMPE).

European Commission

ISSN 1681-6803



Radiation Protection

N° 174

European Guidelines on Medical Physics Expert

Energy

EUROPEAN COMMISSION

RADIATION PROTECTION N° 174

EUROPEAN GUIDELINES ON MEDICAL PHYSICS EXPERT

ANNEX 2

Table 1: MPE Staffing Factors for Radiotherapy

Equipment Dependent Factors		Item	MPE WTE	MPS WTE
	Linear Accelerator	Multi-mode	0.6	1.2
	Linear Accelerator	Single-mode	0.2	0.9
	IGRT	Unit	0.1	0.2
	HDR	Unit	0.2	0.4
	CT Simulator	Unit	0.2	0.4
	Planning	System	0.1	0.4
	IMRT	Unit	0.2	0.4
	RT Data/Imaging	Data Network	0.1	0.4
	Simulator	Unit	0.1	0.4
	MLC	Unit	0.05	0.2
	EPID	Unit	0.05	0.2
	Advanced/Brachy TPS	Unit	0.1	0.2
	300 kV	Unit	0.05	0.2
	150 kV	Unit	0.05	0.2
	Low Dose After-loading	Unit	0.1	0.4
	Block Cutter	Unit	0.05	0.2
	Automatic Outlining	Unit	0.05	0.2
	SBRT (new)	Unit	0.2	0.2
	SBRT (established)	Unit	0.1	0.2
Patient Dependent Factors		**No. of Courses**	**MPE WTE**	**MPS WTE**
New patients	External	1000	0.5	1.8
	3D Conformal	100	0.1	0.4
	TBI	100	0.4	0.8
	SBRT/SABR	100	0.4	0.8
	IMRT	100	0.4	0.8
	Total Skin Electrons	100	0.4	0.8
New patients	Brachytherapy	100	0.4	0.8
	I-125	100	0.4	0.8
Service Dependent Factors		**Notes**	**MPE WTE**	**MPS WTE**
Practical Radiation Protection Support		Per centre	0.1	0.1
Quality System		Per centre	0.2	0.5
Research and Training Dependent Factors		**Notes**	**MPE WTE**	**MPS WTE**
Research and Development including clinical research		Per department	0.2	0.3
Delivering training – internal		Per trainee	0.2	0.3
Education and training within service		Per department	0.04	0.05
Clinical Trials with trial specific QA requirements		Per trial	0.1	0.125

Czech Association of Medical Physicists

EFOMP School for Medical Physics Experts

Advanced Kinetic Modelling and Parametric Methods
Advanced SPECT and PET Applications in Cardiology, Neurology and Oncology
July 10 – July 12, 2014
Prague, Czech Republic

Czech Association of Medical Physicists

EFOMP School for Medical Physics Experts

Digital mammography and quality control

January, 22-24, 2015

Prague, Czech Republic

This event is under the auspices of the EANM

EFOMP School for Medical Physics Experts – Prague, July 2015

Radiopharmaceutical dosimetry

July 2 – July 4, 2015
Prague, Czech Republic

The Czech Association of Medical Physicists in collaboration with EFOMP and Department of Dosimetry and Application of Ionizing Radiation of the Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague would like to invite you to the **EFOMP School for Medical Physics Experts (Nuclear Medicine) - Prague Summer 2015**. The school will be aimed at advanced tasks connected to **Radiopharmaceutical dosimetry**. This two-and-half day event will be an EFOMP accredited one and is intended for practising clinical Medical Physicists who are at the level of a Medical Physics Expert (MPE) in Nuclear Medicine or working towards becoming an MPE. As in last year's school, there will be an optional examination at the end for those seeking a higher level of certification beyond attendance.

Content

First day of school will be aimed at theoretical aspects of radiopharmaceutical dosimetry. On second day, theoretical background will be used and clinical studies will be presented. The last day will be devoted to general discussion with participants, discussion on available software tools etc.

Theoretical aspects of radiopharmaceutical dosimetry

Introduction to radiopharmaceutical dosimetry (Indications: Diagnostics and therapy, common formalism for dosiemetry), **Quantitative SPECT imaging** (Specificities of quantitative imaging for dosimetry), **Quantitative PET imaging** (Specificities of quantitative imaging for dosimetry), **Pharmacokinetics modelling** (TAC assessment, sampling, fitting, introduction to compartmental modelling), **Absorbed dose computing** (Radiation transport and absorbed dose computation, local deposition, convolution, Monte Carlo simulations), **Diagnostic dosimetry** - ICRP 103 (ICRP reports and evolution, implementing present and future ICRP recommendations, hybrid imaging and impact on dosimetry), **Therapy dosimetry** - absorbed dose / effect relationship (status of dosimetry in therapy, how/when to implement dosimetry, absorbed dose effect relationship: toxicity and/or efficacy).

Czech Association of Medical Physicists

EFOMP School for Medical Physics Experts

Computed Tomography: Dosimetry, optimization and advanced applications

January, 28-30, 2016
Prague, Czech Republic

EFOMP involvement in EU projects

PiDRL

EUTEMPE-RX

ENETRAP III

Radiation dose management of pregnant patients, pregnant staff and paediatric patients in diagnostic and interventional radiology

EUTEMPE-RX

Teaching method:
Blended learning
(online and face-to-face learning).

Module duration: approx. 10 working days online teaching + 5 working days face-to-face teaching

Venue (face-to-face teaching): University of Crete, Faculty of Medicine, Heraklion, Crete, Greece

Teaching objectives: By the end of this module the participants would be able to:

1. Assess and evaluate conceptus doses and radiogenic risks associated with diagnostic and interventional examinations performed on the mother
2. Assess, evaluate and minimize conceptus dose for pregnant staff working in an interventional suite
3. Assess and evaluate paediatric patient doses and radiogenic risks from diagnostic and interventional radiology procedures
4. Manage exposure of pregnant patients requiring diagnostic and interventional procedures
5. Develop new optimized diagnostic and interventional radiology protocols for pregnant patients
6. Develop new optimized diagnostic and interventional radiology protocols for paediatric patients
7. Develop research protocols focused on conceptus and paediatric dosimetry using TLDs and anthropomorphic physical phantoms or Monte Carlo simulation and mathematical phantoms

Teaching staff: John Damilakis, Kostas Perisinakis, John Stratakis, Antonios Papadakis, Virginia Tsapaki, Georgia Solomou, invited speakers (tba)

LEADER OF THE MODULE

John Damilakis, A full professor and chairman in the Department of Medical Physics of the University of Crete, Greece, John Damilakis has focused his research interests on radiation protection in diagnostic and interventional radiology. He has published more than 200 publications in leading peer-reviewed journals and conference proceedings. He is a leader in the application of medical radiation protection in clinical everyday practice with about 30 years of clinical experience. John Damilakis is vice president and president elect of EFOMP and chairman of the Education and Training Committee of IOMP

John Stratakis, received his BSc in Physics from the University of Crete in 1997, his MSc in Medical Physics from the University of Surrey, UK, in 1998 and his PhD in Medical Physics from the Medical School of the University of Crete. He is a research associate of the Laboratory of Medical Physics at University of Crete. His research interests include Monte Carlo dosimetry applied to radiographic and interventional procedures.

Kostas Perisinakis, BSc, MSc, PhD joined the Medical Physics Department, Medical School, University of Crete in 1996 where he serves ever since. He is author in more than 85 scientific papers published in peer-review journals, which have received more than 1350 citations. He was invited speaker in more than 50 international and domestic congresses. His main research interests relate to quantification of radiogenic risks from medical radiation procedures.

Antonios Papadakis has been a medical physicist and radiation protection consultant with the Medical Physics Department of the University Hospital of Heraklion, Greece, since 2004. He received the PhD degree in medical physics in 2003 from the University of Patras, Greece. From 2003 to 2004 he had been a research fellow with the Massachusetts General Hospital, Boston, USA. He has published several articles in peer-reviewed scientific journals and conference proceedings.

Georgia Solomou received her B.Sc. in Applied Mathematics and Physics from National Technical University of Athens and M.Sc in Medical Physics from the Aristotle University of Thessaloniki. Since 2012 she has been a PhD candidate in Medical Physics with the University of Crete and has been working as a Medical Physicist in the research project entitled "Conceptus Radiation Doses and Risks from Imaging with Ionizing Radiation".

Virginia Tsapaki, more than 25 years experience in Diagnostic and Interventional Radiology, Computed Tomography and Nuclear Medicine. Iinvolved in several missions organised by the IAEA and in multiple European and IAEA research projects. More than 100 publications in various national and international journals and conference proceedings and more than 150 presentations and posters in national and international conferences. President of the Hellenic Association of Medical Physicists. Actively involved in the board of EFOMP and IOMP.

EUTEMPE-RX

Course enrollment is FREE

Minimum entrance requirements are:
EQF level 7 = master + 2 years of experience in medical physics for radiological applications

www.eutempe-rx.eu

The New European Union Framework Programme for all

Research and Innovation-related activities (2014-2020)

EFOMP

EUTEMPE - RO

- ESTRO and EFOMP have formed a joint working party to consider and develop a suitable application for Europe – wide funding

- Two t-cons. There will be a call from Erasmus + in October 2015 which might be suitable. There was much discussion about the criteria for partners for the Erasmus+ call.

- Other calls are anticipated from Horizon2020 and from Euratom which may also be suitable.


Latest NEWS
Radiation Protection Week (RPW2016) NEW
EURADOS_AM 2016_1st-announcement
MELODI Statement and SRA
MoU with Medical Associations
7th MELODI WS 9-11 Nov 2015, MUNICH,GERMANY
Registration is CLOSED
SEMI-NUC programme available
MELODI
Multidisciplinary European Low Dose Initiative
Home
About MELODI
Workshops
SRA
OPERRA
DoReMi
CONCERT
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Links
Multidisciplinary European Low Dose Initiative
MELODI is an European Platform dedicated to low dose radiation risk research. In 2010 MELODI was founded as a registered association with 15 members.
The purpose of MELODI is:
MELODI will propose R&T priorities for Europe in its field of competence - EUROPE 2020 Strategy.
MELODI will seek the views of stakeholders on the priorities for research, keep them informed on progress made, and contribute to the dissemination of knowledge.
MELODI will interface with international partners like WHO and IAEA.
MELODI Partners
Membership
How to join MELODI?
Members Login
Contact
Bundesamt für

MELODI

- MoU
- Development of the ‘Medical SRA’
- Establishment a medical WG
- Consideration to create a platform for medical RP

EFOMP JOURNAL

Physica Medica,
The European Journal of Medical Physics

Impact factor: 2.403

E

F

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Mammo Protocol

EFOMP

Mammo Working Group Protocol, April 2014

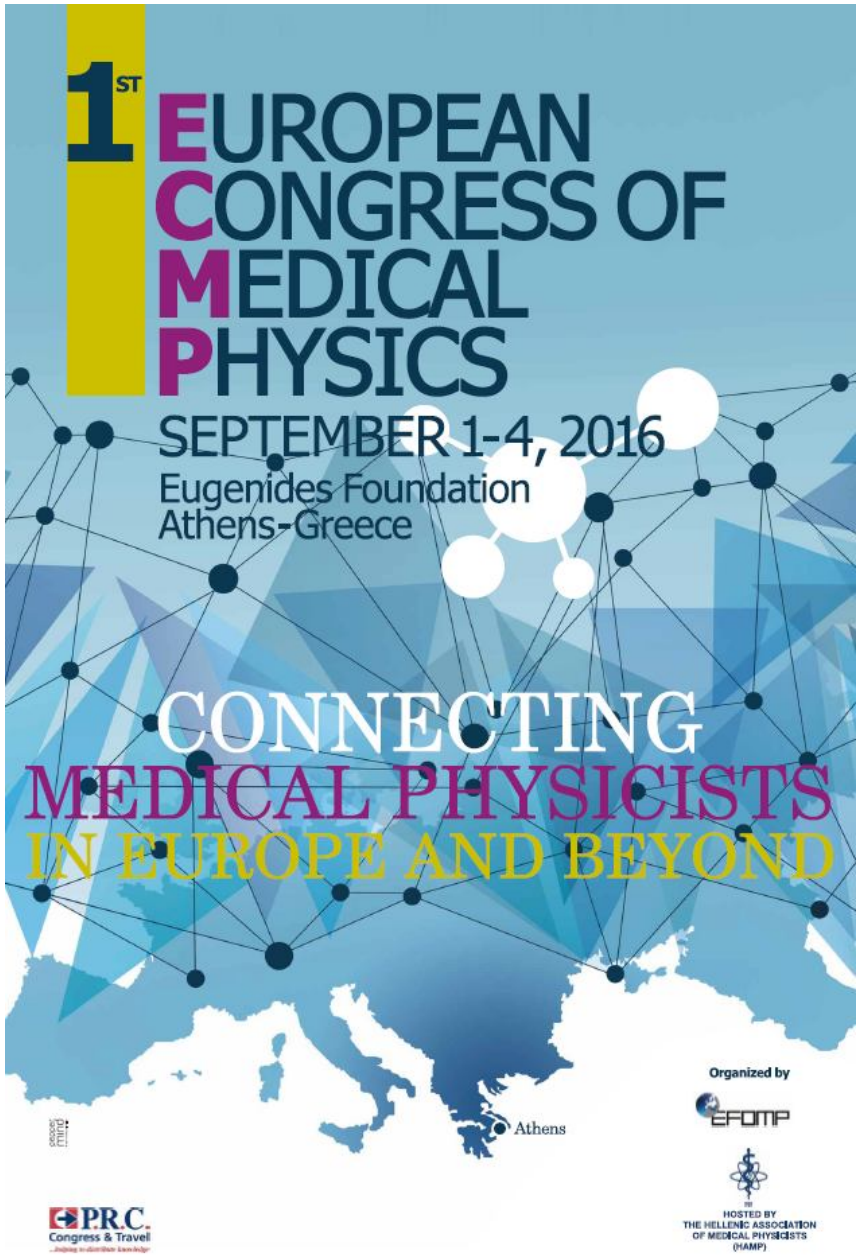
EFOMP - Mammo Protocol

Table of Content

www.efomp.org

1st European Congress of Medical Physics

Athens September 1-4 2016



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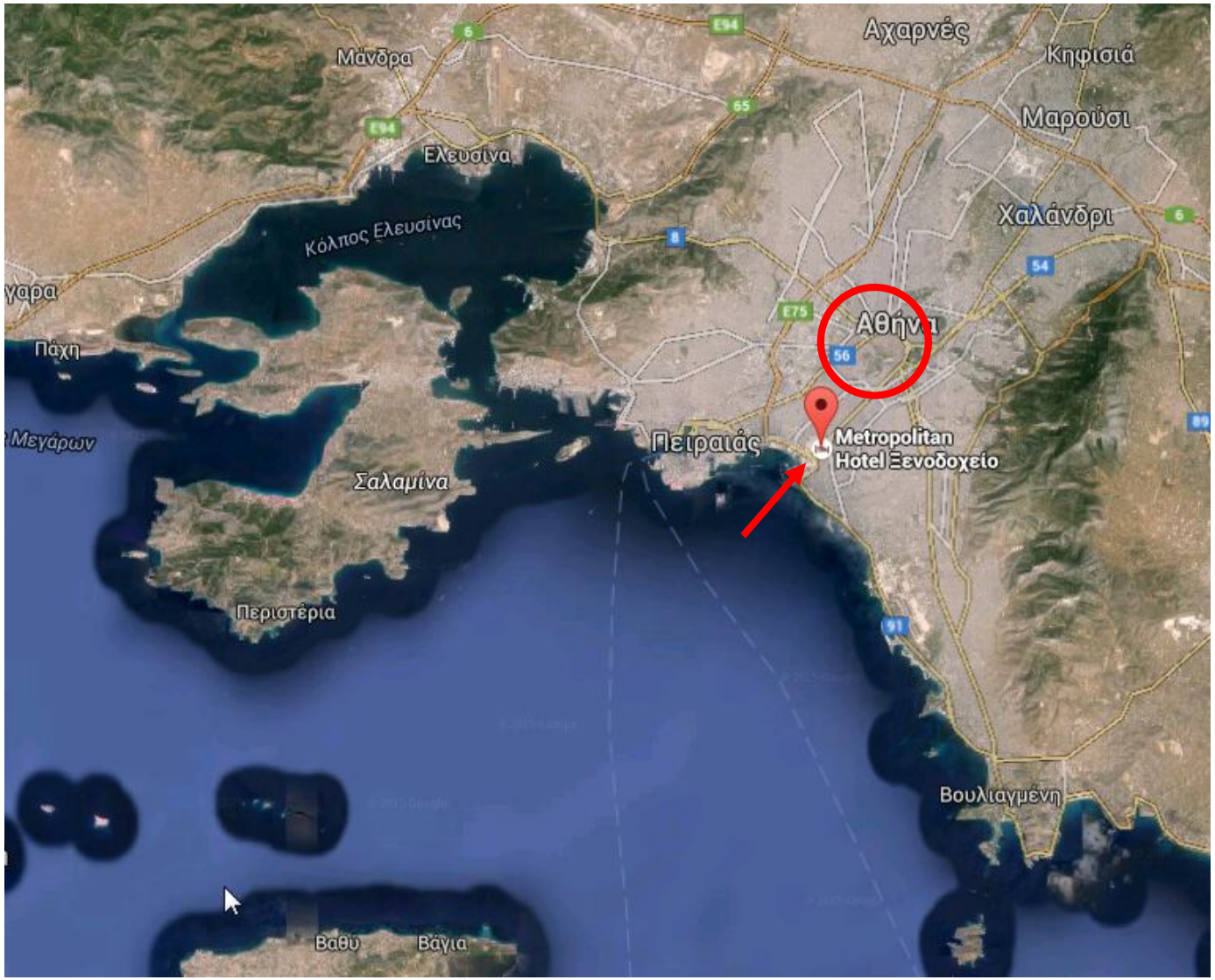

EFOMP

1st European Congress of Medical Physics

Athens
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2016

EFOMP

http://www.ecmp2016.org/

ΕΥΧΑΡΙΣΤΩ

ΚΑΛΗ ΧΡΟΝΙΑ !