

Embracing Change, Sharing knowledge EFOMP actions in Medical Physics

Dr. Marco Brambilla
President of EFOMP



EFOMP

*Medical Physicists
Improving treatments, saving lives*

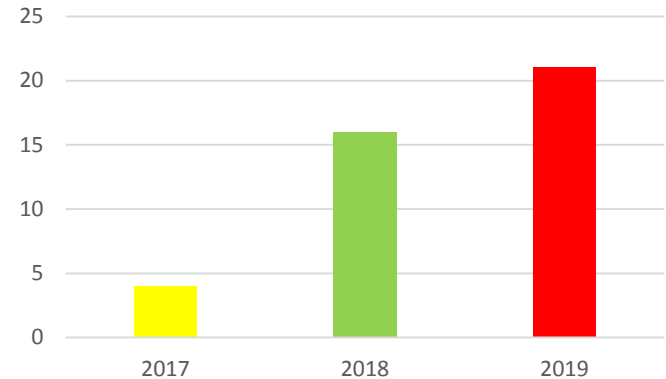
Members

34 NMOs

Austria (AT): Belgium (BE): Bosnia Herzegovina (BIH) : (Bulgaria (BG): Croatia (HR): Cyprus (CY): Republic Czech (CZ): Denmark (DK): Estonia (EE): Finland (FI): France (FR): Germany (DE): Greece (EL): Hungary (HU): Ireland (IE): Italy (IT): Latvia (LV): Lithuania (LT): Macedonia (MK): Moldova (MOL): Malta (MT): The Netherlands (NL): Norway (NO): Poland (PL): Portugal (PT): Romania (RO): Russian Federation (RU): Serbia (RS): Slovakia (SK): Slovenia (SI): Spain (ES): Sweden (SE): Switzerland (CH): United Kingdom (UK)

> 9000 physicists and engineers
working in medical physics

Company membership



European Federation of Organisations for Medical Physics

Mission

- to harmonize and advance medical physics throughout Europe,
- to strengthen the activities of the National Member Organisations (NMO)
 - bringing about and maintaining systematic exchange of professional and scientific information,
 - the formulation of common policies, and
 - promoting education and training programmes.



Objectives

- coordination activities with NMOs
- collaborating with other international organisations
- disseminating information through publications and meetings
- encouraging scholarship and the exchange of Medical Physicists between countries
- guidelines for education, training and accreditation programmes
- recommendations on the appropriate responsibilities, organisational relationships and roles of workers in Medical Physics
- encouraging the formation of Organisations for Medical Physics where such organisations do not exist.



Collaborating with international organisations

We have signed Memoranda of Understanding:

EANM
 ESTRO (renewal 2017)
 ESMRMB
 MELODI (2014)
 EFRS (renewal 2017)
 ESR (renewal 2018)
 AAPM (2015)
 COCIR (2017)
 MEFOMP (2017)
 EuSoMII (2017)
 ESMIT-ESMPE (2018) New



Collaborating with international organisations

Working with AAPM



- Joint publications

Estimating Patient Organ Dose with Computed Tomography
A Review of Present Methodology and Required DICOM Information
TG 246 Report (published)

- Joint Task Groups

EFOMP- AAPM Task Group No. 282
Development of a new universal breast dosimetry method

Collaborating with international organisations



Working with IAEA

Participation in IAEA conferences (years 2018 -2019)

- Technical Meeting on Preventing Unintended and Accidental Exposures in Nuclear Medicine, Vienna, (16 to 18 May 2018)
EFOMP represented by Klaus Bacher
- Joint ICTP/IAEA Advanced school on DRL's (18-22 November 2019)
EFOMP represented by Marco Brambilla and Annalisa Trianni
- International Symposium on Standards, Applications and Quality Assurance in Medical Radiation Dosimetry (IDOS 2019) , Vienna , (18-21 June 2019)
EFOMP will be represented by John Damilakis
- Publication on 'Medical Physics Recognition', Vienna, (3-6 September 2018)
EFOMP represented by Adriaan Lammertsmaa
- Consultancy Meeting on Early Effects and Clinical Detection of Radiation Errors in Radiotherapy, Vienna, (10-13 September 2018)
EFOMP represented by Yolanda Prezado
- Regional Workshop on Radiation Protection Education and Training of Health Professionals in Diagnostic and Interventional Radiology , Coimbra, (22-24 October 2018)
EFOMP represented by Jorge Isidoro

Collaborating with international organisations

Working with ICTP



Research

Scientific Calendar

Programmes

Administration

Search

Search in Conferences:

Overview

Programme

Speakers

Apply here

Practical info

Joint ICTP-IAEA School on Quality Assurance and Dose Management in Hybrid Imaging (SPECT/CT AND PET/CT) | (smr 3240)

Starts 17 Sep 2018
Ends 28 Sep 2018
Central European Time

ICTP
Giambiasi Lecture Hall (AGH)
Strada Costiera, 11
I - 34151 Trieste (Italy)

Organizer(s)

Organizers

Jenia Vassileva (Radiation Protection of Patients Unit),
Gian Luca POLI (Dosimetry and Medical Radiation Physics section, Division of Human Health, Department of Nuclear Applications, International Atomic Energy Agency), Local Organizer:
Luciano Bertocchi

Collaborating with international organisations

Working with COCIR



1. ESMPE - Nuclear Medicine Technology Jan 2020
2. Joint Session ECMP 2020

Promoting education and training programmes

ESMPE - Editions



ESMPE
European School for
Medical Physics Experts
by EFOMP

High quality lectures and interactive
sessions for Medical Physics Experts

**SEASONAL
SCHOOLS**
PRAGUE, WARSAW, TORINO, ATHENS

Editions in 2019-2020: Radiology, Prague, July 4-6, 2019 Radiotherapy, Warsaw, October 10-13, 2019
Nuclear Medicine, Prague, January 23-25, 2020 / Statistics, Athens, April 23-25, 2020
Satellites in Nuclear Medicine, Radiotherapy, Artificial Intelligence, Torino, September 23, 2020

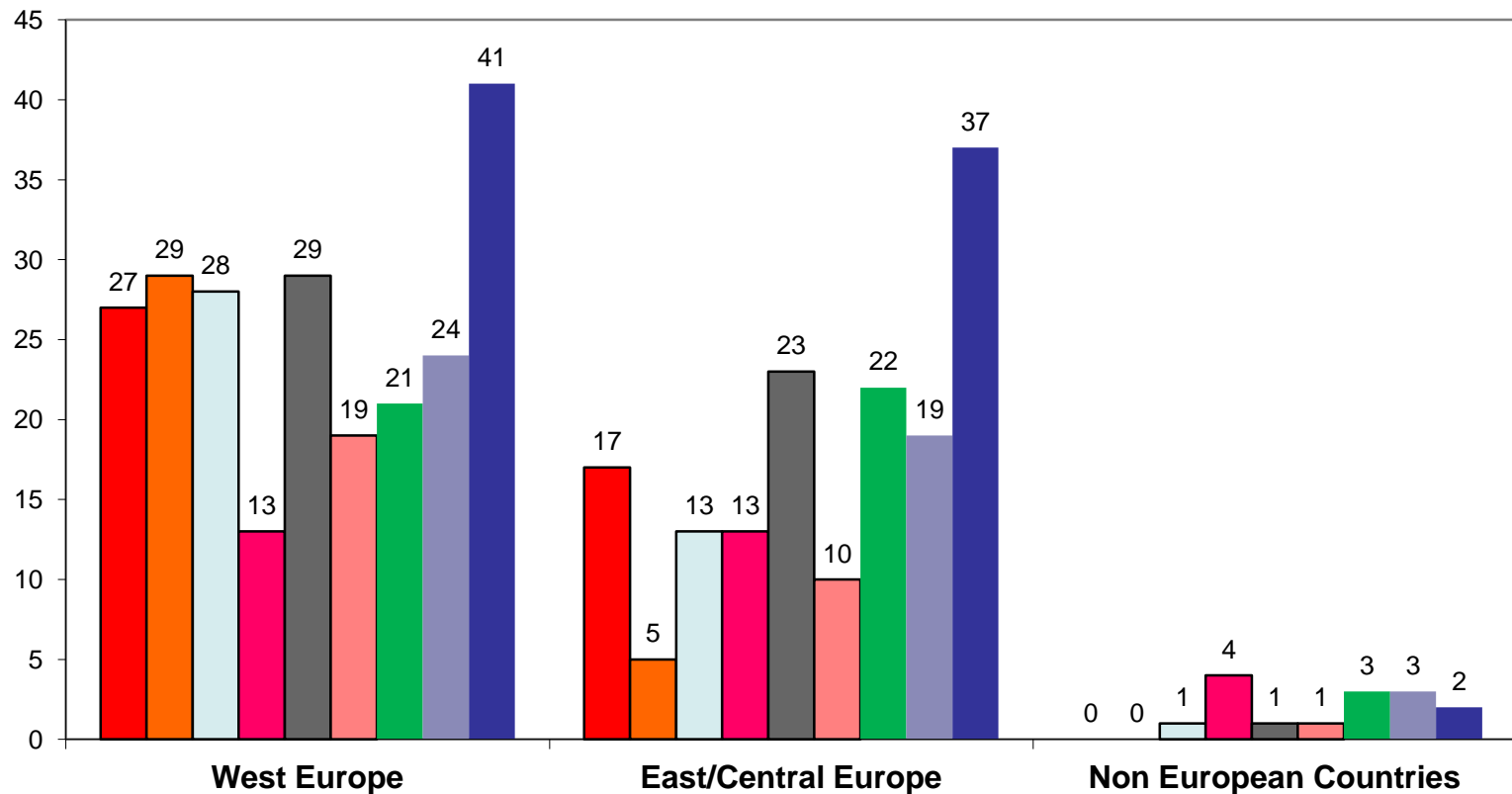
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EFOMP

Edition	Period	Title	Domain	Duration (Hours)	Scientific Chair	Chair of the school
1st	2013 Jul 4-6	Clinical Medical Device Management: Specification, Acceptance testing, Commissioning, QC and Advanced applications In Whole-body PET/CT	Nuclear Medicine	19	M. Brambilla	C. Caruana
2nd	2014 Jul 10-12	Advanced Kinetic Modeling and Parametric Methods Advanced SPECT and PET Applications In Cardiology, Neurology and Oncology	Nuclear Medicine	19	M. Brambilla	C. Caruana
3rd	2015 Jan 29-31	Digital Mammography and Quality Controls	Diagnostic Radiology	18	G. Gennaro	A. Torresin
4th	2015 Jul 2-4	Radio pharmaceutical dosimetry	Nuclear Medicine	17	M. Bardies	M. Brambilla
5th	2016 Jan 28-30	Computed Tomography imaging: Dosimetry, Optimization and Advanced Clinical applications.	Diagnostic Radiology	20	A. Torresin	M. Brambilla
6th	2016 Jul 7-9	Practical aspects of Radiation Dosimetry in Targeted Radionuclide Medicine Therapy	Nuclear Medicine	18	M. Bardies	M. Brambilla
7th	2017 Jan 26-28	Imaging in Radiotherapy	Radiotherapy	19	G. Lol	A. Torresin
8th	2017 Jul 6-8	Magnetic resonance imaging: Advanced clinical applications Safety aspects Quality controls	Diagnostic Radiology	18	D. Lurie	A. Torresin
9th	2018 Jan 25-27	Computed Tomography: Technology, Dosimetry, Optimization (ESMPE_CT)	Diagnostic Radiology	17	M. Kortessniemi	M. Brambilla
10th	2018 Aug 22	Statistics In Medical Physics (ESMPE general)	Data Management and Research	8	M. Brambilla	M. Brambilla
11th	2018 Aug 22	IMRT & VMAT planning in practice (ESMPE_RT)	Radiotherapy Treatment Planning	8	G. Lol	M. Brambilla
12th	2018 Aug 22	Fundamentals of Nuclear Medicine Dosimetry (ESMPE_NM)	Nuclear Medicine	8	M. Bardies	M. Brambilla
13th	2019 Jan 24-26	Nuclear Medicine Dosimetry: Practical approach	Nuclear Medicine	16	M. Bardies	A. Torresin

Geographical Distribution- Macro Areas

■ 2013 NM ■ 2014 NM □ 2015 Mx ■ 2015 NM ■ 2016 CT ■ 2016 NM ■ 2016 RT ■ 2017 MRI ■ 2018 CT



Forthcoming editions of the ESMPE



ESMPE European School for Medical Physics Experts Innovation in technology in Nuclear Medicine

Jointly organised by ESMPE, ESMIT and COCIR

23rd-25th January 2020, Prague, Czech Republic

Registration is open on EFOMP website - Maximum 80 participants



ESMPE European School for Medical Physics Experts

Statistics in Medical Physics

23th-25th April 2020, Athens, Greece

Registration will open the 24 September EFOMP website

Deadline for applying for ENEN+ grant 30 November

Education, training and accreditation programmes

Quality control in cone-beam computed tomography (CBCT) EFOMP-ESTRO-IAEA protocol

EFOMP CBCT working group
set up in December 2013

Unification of quality controls in CBCT for dental, Angiography and Radiotherapy applications

- to develop a practical, unifying protocol for image quality control (and dose) of CBCT
- using contrast: noise ratio and Fourier measures



- Image quality factors
- Phantoms
- Software
- Dosimetry

Education, training and accreditation programmes

EUROPEAN EXAMINATION BOARD (EEB)

First Round of Examination: Prague 6-8 July 2017
20 applications from 16 countries



**EFOMP
EXAMINATION
BOARD**

Second Round of Examinations: 21-22 August 2018 Copenhagen
20 applications

Third Round: 8-9 October 2019 - Warsaw
10 applications

Fourth Round: 24-26 September 2020 - Torino

Communications & Publications



The European Federation of Organizations for Medical Physics Bulletin

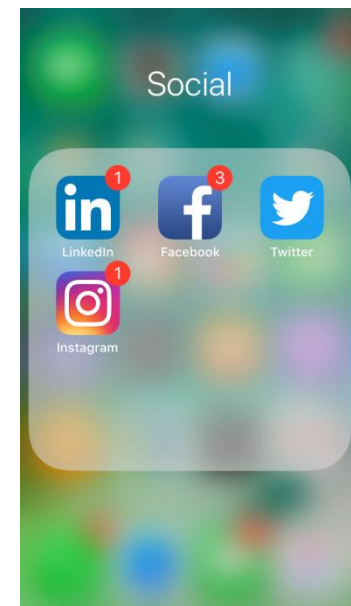
European Medical Physics News
Winter 2018

EMPNEWS

- 4 editions per year
- Contributions from NMOs, individual colleagues, Company members, events organisers, affiliated societies
- Contributions are welcome!

SOCIAL MEDIA

- Facebook - 1870 followers
- LinkedIn - 2032
- Twitter - 1260
- Instagram - 281



Communications & Publications

EFOMP WEBSITE



[Access the e-learning platform](#)

[Download Quick User Manual](#)

On line website system of
registration for EFOMP events

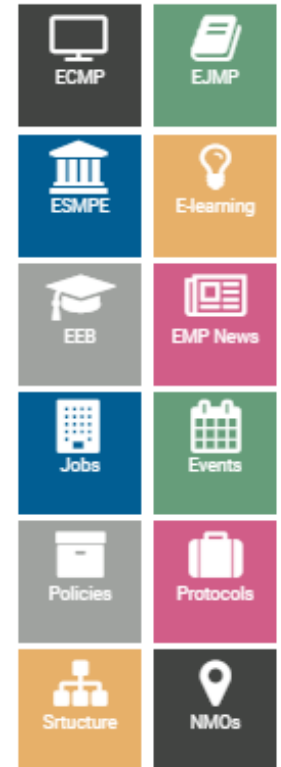
Active from 1 September 2018

E-learning website platform

Active from 1 January 2019

Video recording of EFOMP
educational events

**First video recordings during the
ESMPE Statistics in Copenhagen**



Encouraging scholarship and the exchange of Medical Physicists between countries

ESMPE –

More than 130 subsidized fees provided by EFOMP since the start of the school

Level	MPE
Registration fee* (2 main meals, 5 coffee breaks, 1 social dinner)	300 € 350 € (from 31.05.2019)
Reduced registration fee* <ul style="list-style-type: none"> subsidized by EFOMP first-come, first-served policy deadline for application (15.06.2019) 	150 € - for the first 10 attendees (max. 2 from one country) coming from the following European countries: Albania, Belarus, Bosnia & Herzegovina, Bulgaria, Croatia, Cyprus, Estonia, Greece, Hungary, Kosovo, Latvia, Lithuania, FYR of Macedonia, Moldova, Montenegro, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Turkey, Ukraine.
Maximum number of participants	80

ECMP – Reduced fee for 22 participants

Congress fee 23-25.08 (reduced fee)

Participant reduced fee

22

ENEN+ project

Bursaries provided to 55 MPs for attendance to:

- Eutempe-RX: 22
- ESMPE: 29
- ECMP 2018 satellites : 4



Bringing about and maintaining systematic exchange of scientific information.

Active Working Groups

- Joint EFOMP-AAPM WG: Development of a new breast dosimetry phantom (I. Sechopoulos Gr)
- EFOMP WG: Digital breast tomosynthesis (DBT) quality control (QC) protocol (R. van Engen NL)
- EFOMP WG: Artificial Intelligence (F. Zanca Be)
- EFOMP WG: Angiographic and Fluoroscopic QC protocol (A. Trianni IT)

WG under establishment

- EFOMP WG: QC in PET/CT and PET/MRI (R. Matheoud IT)

Bringing about and maintaining systematic exchange of professional information

**Approval of criteria for accepting National Registration Schemes
NRS and corresponding procedure**

Special ECMP2018 Focus Session on Professional Matters

Policy Statement Nr. 16: The role and competences of medical
physicists and medical physics experts under 2013/59/EURATOM

EFOMP WG: Revision of PS 14 Safety in MRI

- EURAMED: European Alliance for Medical Radiation Protection Research
EURAMED represents a consortium of associations involved in the application of ionising radiation in medicine, with the goal of jointly improving medical care and its medical radiation protection issues through sustainable research efforts.
- ENEN+ project: the primary motivation of the ENEN+ project is to substantially increase the interest of students and young professionals in a career in nuclear sector. Mobility grants are intended for those who would like to improve their knowledge, skills and competitiveness for career opportunities in the Medical Applications field
- EUCLID, European Study on Clinical Diagnostic Reference Levels for X-ray Medical Imaging: The objective of the project is to develop and implement an EU-wide survey to collect data from around hospitals across Europe in order to establish up-to-date clinical diagnostic reference levels (DRLs) for adult patients for CT, plain radiography and interventional radiology.
- MEDIRAD: The MEDIRAD project is focused on implications of medical low dose radiation exposure.
- EUTEMPE- RX network: The project partners created 12 courses to achieve EQF level 8 in Medical Physics in Radiology





EFOMP

The Congress

**Bridging knowledge
across specialities**

**2nd European Congress of Medical
Physics
Copenhagen - August 23-25
2018**

**836 participants
102 invited speakers
4 Satellite meetings
12 Refresher Courses
9 Joint sessions
28 Scientific sessions
2 Focus sessions (E&T and Prof)
485 accepted abstracts or posters
259 oral presentations**

**Budget ~ 315 kEuro
Congress Results: + 89.000 euro**



Organized by



Hosted by



Niels Bohr Institute

Congress venue



ecmp2018.org

Embracing change, sharing knowledge

23-26 September 2020



www.ecmp2020.org



organized by

EFOMP

hosted by



European Congress of Medical Physics

Save
the
Date

24-26 September 2020

Torino . Italy

Lingotto Conference Centre

ECMP 2020 welcomes

sefm



Sociedad Española
de Física Médica





EFOMP



Physica
Medica

European Journal of Medical Physics

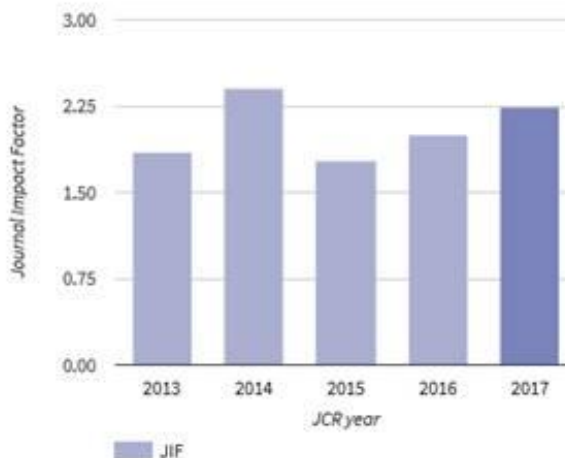


Editor-in-Chief: Paolo Russo
Past Editor-in-Chief: Fridtjof Nüstlin

Journal Impact Factor Trend

2.240

2017 Journal Impact Factor



Associated Societies 2019:

Czech Republic **NEW**

France

Greece **NEW**

Ireland

Italy

Leadership Meeting with NMOs 2018

CAMP -25 January 2018- Prague - Czech Republic



CAMPBE-CYMPA 3 February 2018 - Larnaca - Cyprus



OGMP - 25 March 2018 - Wien - Austria



PTFM - 30 May 2018 - Warsaw - Poland



SFPM -15 June 2018 - Toulouse- France



DSMF - 24 August 2018 - Copenhagen - Denmark



SSF - 25 August 2018- Copenhagen - Sweden



CROBEMPS - 9 November 2018 - Zagreb - Croatia





EFOMP

Leadership Meeting with NMOs 2019

HAMP - 19 January 2019 - Athens -Greece



SEFM - 28 January 2019 - Madrid - Spain



IAMP - 22 March 2019 - Dublin - Ireland



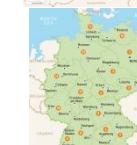
NVKF- 4 April 2019 - Woudschoten - The Netherlands



PTFM - 11 June 2019 - Warsaw - Poland



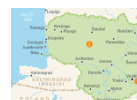
DGMP - 5 September 2019 - Berlin- Germany



CFMR - 20-21 September 2019 - Timisoara- Romania



LFMBIA -LMEPS- AMPR November 2019 - Kaunas - Lithuania



Individual membership

Introduction

There is no problem in creating a new membership category as Article 5c (page 33) of the Constitution allows us to do this.

Article 8 (page 34) states that it is the responsibility of Council to approve any new membership category. The Appendix to the Constitution (page 38) lists those categories.

In this appendix I have outlined the new category which, for the sake of this draft document, I have called “Individual Members”.

Benefits of IM

- Free access the EFOMP e-learning platform.
- discounts on fees for attending ESMPE school,
- discounts on fees for attending ECMP,
- discounts on fees for attending to stand for EEB examinations.
- The fee for becoming individual member will be proposed by the Board and established by the Council.
- The discounts for EFOMP activities will be established by the Board

Individual membership

Limitations

- Individual members cannot attend or vote in Council
- Individual members cannot join EFOMP committees
- Individual members should not prove to be member of an NMO, neither to be a Medical Physicists nor to be European, since there will be no superimposition with the functioning of the federation.

Procedure

- The registration of individual membership will be completed upon completion of a simple form and the payment on line.
- Intermittent IM will be discouraged

