EFOMP Education and Training initiatives - Eutempe-RX, ESMPE

MEIBioeng and MPEC 2017, 13-14 September 2017

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Secretary General and Vice President of the EFOMP
Summary

Promoting of education and training programmes is one of the three columns of the mission of EFOMP.

To achieve this goal, EFOMP is engaged in a series of activities such as the production of a number of documents (Policy Statements) proposing guidelines for education, training and accreditation programs, workshops, seminars.

In the following, school related activities are described with respect to the participation in the Network “European Training and Education for Medical Physics Experts in Radiology” (EUTEMPE-RX) and the European School of Medical Physics Experts (ESMPE).
European Training and Education for Medical Physics Experts in Radiology

http://www.eutempe-net.eu/

EU funded project - Main contractors:

Katholieke Universiteit Leuven
State-of-the-art Education for Medical Physicists in Radiology

- Network of excellent teaching centers
- Dedicated courses at EQF level 8
- Course content driven by the "Guidelines of the MPE project"
- Balanced e-learning (40 hours workload) and face-to-face session (40 hours workload)
- Multicampus Educational and Training platform
- Support of a Scientific Advisory Board

**Educational Tools and Methods**

- Creation of "groups of learners" and guided tasks prior to the face-to-face moments
- Online communication & feedback between teachers and learners
- Interactive self-assessment test
- Up-to-date multi media material
- Solutions for practical training
- Interactive exercises
- Databases of Material
- Effective sharing of material, software tools and knowledge
- Cross-fertilization between course modules

http://www.eutempe-rx.eu/
Geographical Distribution - European Countries
Module 1 in Prague
Leadership in Medical Physics: Development of the profession
And the challenges of the MPE in radiology
Module 5: Physical & virtual anthropomorphic phantoms for image quality and patient dose optimization

Module 3: Monte Carlo simulation of x-ray imaging and dosimetry
Module 9: Achieving quality in diagnostic and screening mammography
ESMPE

• 2013 July – First Edition
• 2016 September Manual of Operation of the School approved by EFOMP Council 3rd September 2016- Athens
• 2017 March Members of the Scientific Board nominated by the National Member Organizations of EFOMP and elected through a Postal Ballot among Council members.
• 2017 June nomination of the Chair and Vice Chair of the school
ESMPE – Board

Chair of ESMPE
Marco Brambilla
University Hospital Novara - ITALY

Vice Chair of ESMPE
Alberto Torresin
Niguarda Hospital
Milan - ITALY

Chair of E&T Committee
Markus Buchgeister
Beuth University
Berlin - Germany

Chair of Science Committee
Mika Kortesniemi
University of Helsinki
Helsinki - FINLAND
ESMPE - Board

Efi Koutsouveli
Hygeia Hospital
Athens - GREECE

Brendan McClean,
St Luke’s Hospital,
Dublin - IRELAND

Manuel Bardiès
INSERM Toulouse - FRANCE

Annalisa Trianni
University Hospital
Udine - ITALY

Jaroslav Ptacek
University Hospital
Olomouc- Czech Republic

Local Organizing Committee
## ESMPE Editions

<table>
<thead>
<tr>
<th>Edition</th>
<th>Period</th>
<th>Title</th>
<th>Domain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>2013</td>
<td><strong>Clinical Medical Device Management: Specification, Acceptance testing, Commissioning, QC and Advanced applications in Whole-body PET/CT</strong></td>
<td>Nuclear Medicine</td>
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<tr>
<td>2nd</td>
<td>2014</td>
<td><strong>Advanced Kinetic Modeling and Parametric Methods. Advanced SPECT and PET Applications in Cardiology, Neurology and Oncology</strong></td>
<td>Nuclear Medicine</td>
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<tr>
<td>3rd</td>
<td>2015</td>
<td><strong>Digital Mammography and Quality Controls</strong></td>
<td>Diagnostic Radiology</td>
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<tr>
<td>4th</td>
<td>2015</td>
<td><strong>Radiopharmaceutical dosimetry</strong></td>
<td>Nuclear Medicine</td>
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<tr>
<td>5th</td>
<td>2016</td>
<td><strong>Computed Tomography Imaging: Dosimetry, Optimization and Advanced Clinical applications.</strong></td>
<td>Diagnostic Radiology</td>
</tr>
<tr>
<td>6th</td>
<td>2016</td>
<td><strong>Practical aspects of Radiation Dosimetry in Targeted Radionuclide Medicine Therapy</strong></td>
<td>Nuclear Medicine</td>
</tr>
<tr>
<td>7th</td>
<td>2017</td>
<td><strong>Imaging in Radiotherapy</strong></td>
<td>Radiotherapy</td>
</tr>
<tr>
<td>8th</td>
<td>2017</td>
<td><strong>Magnetic resonance Imaging: Advanced clinical applications Safety aspects Quality controls</strong></td>
<td>Diagnostic Radiology</td>
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ESMPE Attendance

- 2013 NM: 44
- 2014 NM: 34
- 2015 MX: 42
- 2015 NM: 30
- 2016 CT: 53
- 2016 NM: 30
- 2017 RT: 46
- 2017 MRI: 46
Geographical Distribution - Macro Areas

- **West Europe**
  - 2013 NM: 27
  - 2014 NM: 29
  - 2015 DR: 28
  - 2015 NM: 29
  - 2016 DR: 19
  - 2016 NM: 21
  - 2016 RT: 23

- **East/Central Europe**
  - 2013 NM: 17
  - 2014 NM: 13
  - 2015 DR: 13
  - 2015 NM: 13
  - 2016 DR: 10
  - 2016 NM: 22

- **Non European Countries**
  - 2013 NM: 0
  - 2014 NM: 0
  - 2015 DR: 1
  - 2015 NM: 4
  - 2016 DR: 4
  - 2016 NM: 1
  - 2016 RT: 3
A distinctive tract of the school is to provide subsidized fees for a number of participants coming from low income European countries.

Centre of Europe
Low cost flight connections
Affordable accommodations
ESMPE 2017 MRI – Lectures
ESMPE 2017 MRI – Practical Part
# Forthcoming editions of the ESMPE
## 9th edition 2018 - 25-27 Jan 2018
### Computed Tomography. Technology, Dosimetry, Optimization

## Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Klaus Bacher</td>
<td>Department of Basic Medical Sciences, University of Gent, Gent, Belgium</td>
</tr>
<tr>
<td>Kirsten Boedeker</td>
<td>Toshiba -COCIR</td>
</tr>
<tr>
<td>Marco Brambilla</td>
<td>Head Department of Medical Physics –University Hospital - Novara - Italy</td>
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<tr>
<td>John Damilakis</td>
<td>Head - Department of Medical Physics, Faculty of Medicine, University of Crete - Greece</td>
</tr>
<tr>
<td>Philippe Coulon</td>
<td>Philips - COCIR</td>
</tr>
<tr>
<td>Sue Edyvean</td>
<td>Head of Medical (Radiation) Dosimetry Group - Centre for Radiation, Chemical and Environmental Hazards (CRCE) – Chilton - UK</td>
</tr>
<tr>
<td>Thomas Flohr</td>
<td>Siemens - COCIR</td>
</tr>
<tr>
<td>Roy Irwan</td>
<td>Toshiba - COCIR</td>
</tr>
<tr>
<td>Mika Kortesniemi</td>
<td>Adjunct Professor, Chief Physicist, HUS Medical Imaging Center, University of Helsinki - Finland</td>
</tr>
<tr>
<td>Paul Parizel</td>
<td>Head - Department of Radiology, Faculty of Medicine University of Antwerp – Belgium - Chair of the ESR Board of Directors</td>
</tr>
<tr>
<td>Osvaldo Rampado</td>
<td>Department of Medical Physics - University Hospital of Torino, Italy</td>
</tr>
<tr>
<td>Rafael Montero Sanchez</td>
<td>General Electric - COCIR</td>
</tr>
<tr>
<td>Bernhard Schmidt</td>
<td>Siemens - COCIR</td>
</tr>
<tr>
<td>Alberto Torresin</td>
<td>Head Department of Medical Physics –Hospital Niguarda - Milan - Italy</td>
</tr>
<tr>
<td>Virginia Tsapaki</td>
<td>Head Department of Medical Physics - Konstantopoulio General Hospital – Athens - Greece</td>
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Forthcoming editions of the ESMPE

ECMP 2018- Copenhagen 22 August 2018
Further information on these satellite meetings can be found at: www.ecmp2018.org, https://www.facebook.com/ECMP2018/#
European Congress of Medical Physics
23 - 25 August 2018
Copenhagen · Denmark

Bridging knowledge across specialities

H.C. Ørsted Institute
Niels Bohr Institute

Organized by
Hosted by
Congress venue

ecmp2018.org