



ESMPE European School for Medical Physics Experts

Computed Tomography. Technology, Dosimetry, Optimization.

January 25 – January 27, 2018, Prague, Czech Republic

The EFOMP and COCIR (The European Coordination Committee of the Radiological, Electromedical and Healthcare IT Industry) in collaboration with the Czech Association of Medical Physicists and the Department of Dosimetry and Application of Ionizing Radiation of Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague would like to invite you to the next ESMPE CT 2018.

The school will be aimed at advanced tasks connected with Computed Tomography. The school will cover the main physics aspects of the CT technology, Dosimetry and Optimization.

This edition is jointly organized by EFOMP and COCIR. Lecturers identified by COCIR will give insides on the technical solution adopted by manufacturers in the relevant fields of CT dose reduction and optimization.

This two-and-half day event will be accredited by EBAMP (European Board of Accreditation for Medical Physics) and is intended for practicing clinical Medical Physicists who are involved in Computed Tomography. 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.

Organizers

Jaroslav Ptáček, Tereza Hanušová (Czech Republic)
Mika Kortensniemi (Scientific Chair),
Marco Brambilla (Chair of the School)

Content

State of the Art of CT Imaging - Image quality parameters in modern CT imaging - Image reconstruction in CT - from traditional FBP to iterative methods

Tube Current Modulation - Automatic kV Selection - Iterative Reconstructions - How it is implemented in different makes and model of state of the art scanners. How to configure the relevant parameters during acquisition. Future perspectives

CT Dosimetry - Patient Specific Dosimetry - Managing patient dose with CT dose tracking systems - CT DRLs, notification values, alert values

Advances in CT Technology Future X-ray Sources and Detectors

CT Optimization - Setting CT protocols per specific clinical indications

Final exam

The final exam is voluntary. Participants can gain additional credits when successfully pass the test.



EFOMP



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Faculty

Klaus Bacher	Head of Division of Medical Physics, Ghent University, Ghent, Belgium.
Kirsten Boedeker	COCIR - Research and Image Quality Scientist, Toshiba
Marco Brambilla	Head of Department of Medical Physics - University Hospital - Novara - Italy
Dominic Crotty	COCIR- Premium CT Product Dose Lead, GE Healthcare
John Damilakis	Head of Department of Medical Physics, Faculty of Medicine, University of Crete - Greece
Philippe Coulon	COCIR - Director CT Clinical Science Radiology, Philips
Sue Edyvean	Head of Medical (Radiation) Dosimetry Group - Centre for Radiation, Chemical and Environmental Hazards (CRCE) – Chilton - UK
Thomas Flohr	COCIR - Head of CT Concepts, Siemens Healthineers
Håkan Grundin	COCIR – CT Manager Nordic Region - GE Healthcare
Roy Irwan	COCIR - Chief Physicist, Toshiba
Mika Kortetniemi	Adjunct Professor, Chief Physicist, HUS Medical Imaging Center, University of Helsinki-Finland
Paul Parizel	Head of Department of Radiology, Faculty of Medicine University of Antwerp – Belgium - Chair of the ESR Board of Directors
Oswaldo Rampado	Department of Medical Physics - University Hospital of Torino, Italy
Bernhard Schmidt	COCIR - Head of CT Scanner Applications, Siemens Healthineers
Alberto Torresin	Head of Department of Medical Physics -Hospital Niguarda - Milan - Italy
Virginia Tsapaki	Head of Department of Medical Physics - Konstantopoulou General Hospital - Athens - Greece

Further information

Course language	English
Level	MPE
Registration fee * (2 main meals, 5 coffee breaks, 1 social dinner)	300 € 350 € (from 11.12.2017)
Reduced registration fee* - subsidized by EFOMP - first-come, first-served policy - deadline for application (31.12.2017)	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, Macedonia, Moldova, Montenegro, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Turkey, Ukraine.
Maximum number of participants	80
Duration	25th January 2018 – 27th January 2018
Study load	17 hours of lectures and demonstrations
Venue	Department of Dosimetry and Application of Ionizing Radiation, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, Břehová 7, 115 19 Prague 1, CZECH REPUBLIC
GPS coordinates	50°5'27.737"N, 14°24'58.713"E
Accommodation	Individual
Information, program, etc. Practical information at:	www.csfm.cz/summer2018.html winter2018@csfm.cz
Registration	Electronic registration via www.csfm.cz/winter2018.html
Registration period	10 July 2017 – 25 December 2017

* payment must be done in 14 days following the pre-registration, otherwise pre-registration will be cancelled and neither free place nor subsidized or ordinary fee can be granted for repeated registration

