

XIII NATIONAL MEDICAL PHYSICS AND BIOMEDICAL ENGINEERING CONFERENCE NMPEC-2020

with international participation

*2-13 November 2020, Online Conference
organized by BSBPE, co-organizer MU Plovdiv
with the kind support of EFOMP and IOMP*



EFOMP

International Organization for Medical Physics



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SCIENTIFIC PROGRAM

The indicated times are EET i.e. GMT + 2 hours.

2 November 15:00–15:30	Opening: Simona Avramova-Cholakova – BSBPE Slavik Tabakov – IUPESM Marko Brambilla – EFOMP	
15:30–17:00	Session “Non-Ionizing Radiation” Moderator: Mihaela Ivanova	
	<i>Non-ionizing radiation in medical practice</i>	<i>Michel Israel, Bulgaria</i>
	<i>Magnetic Resonance Imaging Safety</i>	<i>Emil Georgiev, Bulgaria</i>
4 November 15:00–17:00	Session “Biophysics in Biology and Medicine” Moderator: Lubomir Traikov	
	<i>Extracorporeal Photopheresis – Principles and Biological effects</i>	<i>Ivan Tonev, Bulgaria Milcho Mincheff, Bulgaria</i>
	<i>Light-triggered nanomachine for cancer theranostics</i>	<i>Alexandre Loukanov, Japan.</i>
	<i>Non-thermal effects of microwave Ar-plasma on wound healing</i>	<i>Todor Bogdanov, Bulgaria</i>
6 November 15:00–17:00	Session “Modeling and Simulations” Moderator: Zhivko Bliznakov	
	<i>Virtual clinical trials in breast imaging</i>	<i>Paolo Russo, Italy Antonio Sarno, Italy</i>
	<i>Creation and evaluation of physical and computational breast anthropomorphic phantoms</i>	<i>Kristina Bliznakova, Bulgaria</i>

7 November 16:00–18:00	Celebration of the International Day of Medical Physics (in Bulgarian) Moderator: Simona Avramova-Cholakova	
	<i>Message on behalf of IOMP</i>	<i>Magdalena Stoeva, Bulgaria</i>
	<i>History of medical physics and BSBPE in Bulgaria</i>	<i>Ventseslav Todorov, Bulgaria</i>
	<i>E-Learning in medical physics – current perspectives based on 20 years experience</i>	<i>Slavik Tabakov, IUPESM</i>
	<i>125th anniversary of the discovery of the X-rays and the 175th birthday of W. Röntgen</i>	<i>Silvia Tsvetkova, Bulgaria</i>
	Panel Discussion	
9 November 15:00–17:00	Session “Diagnostic Radiology” Moderator: Dessislava Kostova-Lefterova	
	<i>A renewed model for practicing medical physics in clinical imaging</i>	<i>Ehsan Samei, USA</i>
	<i>Introduction to model observers</i>	<i>Dimitar Petrov, Belgium</i>
	<i>Patient exposure monitoring in medical imaging</i>	<i>Jenia Vassileva, IAEA</i>
11 November 15:00–17:00	Session “Radiation Therapy” Moderator: Rada Zotova	
	<i>Appropriate use and QA of image guided radiotherapy</i>	<i>Parham Alaei, USA</i>
	<i>Small Field Dosimetry</i>	<i>Eduard Gershkevitch, Estonia</i>
13 November 15:00–17:00	Session “Nuclear Medicine” Moderator: Peter Trindev	
	<i>Interventional nuclear medicine</i>	<i>Asen Kirov, USA</i>
	<i>Sources of variability of diagnostic reference levels in nuclear medicine</i>	<i>Marco Brambilla, Italy</i>
	<i>Radiation exposure of the pregnant and breastfeeding patients and staff in nuclear medicine</i>	<i>Sigrid Leide Svegborn, Sweden</i>