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European Congress of Medical Physics

Torino · Italy

16-19 June 2021

Provisional programme

updated September 11, 2020

WEDNESDAY 16 JUNE 2021

Time table	room 500	room LONDRA	room MADRID	room ATENE
		Precongress EFOMP School (ESMPE) Satellites in:		
9:00	AIFM DAY 11 th AIFM National Congress <i>(in Italian)</i>	Artificial Intelligence Opening of the AI Satellite Event - Why Are We Here? <i>Mika Kortensniemi (FI)</i> <i>Annalisa Trianni (IT)</i> Artificial Intelligence Explained from the Basics. <i>Bram van Ginneken (NL)</i>	Nuclear Medicine Dosimetry Opening the NM Dosimetry Satellite Event- Introduction to Discussed Topics. <i>Manuel Bardiès (FR)</i> Clinical Dosimetry in Practice. <i>Mark Konijnenber (NL)</i>	Patient Specific QA in Radiotherapy Opening of the Patient Specific QA in RT Satellite Event. <i>Brendan McClean (IE)</i> Individualized patient QA. <i>Ben Heijmen (NL)</i>
10:15	<i>Coffee break</i>			
10:30	AIFM DAY 11 th AIFM National Congress <i>(in Italian)</i>	Artificial Intelligence Main Applications of AI in Radiation Therapy. <i>Wouter Crijns (BE)</i> Main Applications of AI in Diagnostic Imaging. <i>Wiro Niessen (NL)</i>	Nuclear Medicine Dosimetry Software Selection: Commercial, Academic or Both. <i>Manuel Bardiès (FR)</i> Uncertainties in Nuclear Medicine Clinical Dosimetry. <i>Jonathan Gear (USA)</i>	Patient Specific QA in Radiotherapy Patient Specific Dosimetric Measurement. <i>Pat McCavana (IE)</i> Discussion - Demonstrations
12:00	<i>Lunch</i>			
13:00	AIFM DAY 11 th AIFM National Congress <i>(in Italian)</i>	Artificial Intelligence Roadmap to Future Clinical Applications: Solving the Challenges in Data Access, Curation, Ethical and Legal Issues. <i>Peter van Ooijen (NL)</i>	Nuclear Medicine Dosimetry Presentation of Dosimetric Tools & Practical. <i>Alex Vergara Gil (FR)</i> <i>Ludovic Ferrer (FR)</i>	Patient Specific QA in Radiotherapy In Vivo Verifications and in Vivo Dosimetry: the Ultimate Safety Net. <i>Pat McCavana (IE)</i> Discussion - Demonstrations
14:00	<i>Coffee break</i>			
14:15 16:00	AIFM DAY 11 th AIFM National Congress <i>(in Italian)</i>	Artificial Intelligence Practical demonstration of Deep Learning in image segmentation. <i>Teemu Mäkelä (FI)</i> The Future Role, Competence and Education of Medical Pphysicist in the Era of AI. <i>Federica Zanca (BE)</i> Panel discussion and closing remarks	Nuclear Medicine Dosimetry Clinical Dosimetry Practical. <i>Alex Vergara Gil (FR)</i> <i>Ludovic Ferrer (FR)</i> Discussion and Closing Remarks	Patient Specific QA in Radiotherapy Log-File Analysis in Clinical Practice. <i>Wolfgang Lechner (AT)</i> Discussion - Demonstrations Point / Counterpoint on Each Approach
17:30	<i>Exhibition Opening Cocktail Reception</i>			



Thursday 17 June 2021

THURSDAY 17 JUNE 2021

Time table	room 500	room LONDRA	room MADRID	room ISTANBUL
8:00	<p>Refresher Course RT Radiotherapy: Small Field Dosimetry -Development and Challenges</p> <p>New Developments and Detectors for Small Field Dosimetry. <i>Hugo Palmans [UK]</i></p> <p>Challenges and Opportunities of Small Field Dosimetry in Clinical Practice. <i>Paolo Francescon [IT]</i></p>	<p>Refresher Course DIR Diagnostic and Interventional Radiology: Advanced CT Acquisition</p> <p>Advanced Measurement Techniques for CT. <i>Love Kull [SE]</i></p> <p>Optimization of Image Quality for Advanced CT Acquisition. <i>Anne Catrine Martinsen [NO]</i></p>	<p>Refresher Course NM Nuclear Medicine: Quantitative Imaging</p> <p>Tracer Kinetic Modelling. <i>Ronald Boellaard [NL]</i></p> <p>Correction and Reconstruction Algorithms. <i>Mark Lubberink [SE]</i></p>	<p>Refresher Course Embracing Change, Sharing Knowledge</p> <p>Biological Basis for Occupational Dosimetry and Dose Limits. <i>Klaus Rüdiger Trott [IT]</i></p> <p>Radiation Protection and Radiation Safety in Production and Delivery of Pet Radiopharmaceuticals. <i>Nina Pil Møntegaard Fredericia [DK]</i></p>
9:00	<p>Scientific Session RT Small Field Dosimetry</p> <p>Small Field Dosimetry for QA of Stereotactic Radiotherapy. <i>Serenella Russo [IT]</i></p>	<p>Scientific Session DIR Monitoring and Follow-Up, Moving beyond Exposure</p> <p>Examples of Practical and Clinical Consequences after Implementing Dose Monitoring. <i>Elina Samara [CH]</i></p>	<p>Scientific Session NM Dosimetry</p> <p>Dosimetry in Nuclear Medicine. <i>Manuel Bardies [FR]</i></p>	<p>Scientific Session Emerging Methods</p> <p>Medical Device Integration with IT Networks. <i>Maurice Janssen [NL]</i></p>
10:30	<i>Coffee break</i>			
11:00	<p>Scientific Session RT Neural Networks in Radiation Oncology</p> <p>The Potential of Radiomics Applications in Radiotherapy. <i>Marta Bogowicz [CH]</i></p>	<p>Scientific Session DIR Patient Specific Dosimetry in CT [AAPM-EFOMP TG-246]. <i>Jonas Andersson [SE]</i></p>	<p>Scientific Session NM Adaptive CZT Body SPECT. <i>Laetitia Imbert [FR]</i></p>	<p>Scientific Session Quality Management, Safety and Ethics</p> <p>Medical Alarm Systems. <i>Carola van Pul [NL]</i></p> <p>Ethics in Radiological Protection for Medical Diagnosis and Treatment. <i>Marie Claire Cantone [IT]</i> <i>Francois Bochud [CH]</i></p>
12:30	<i>Break [Lunch Symposia, Exhibition, Posters]</i>			



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14:00	<p>Joint Session ESTRO Challenges of Integration between the Different Disciplines in Medical Physics Related to Hybrid Equipment <i>Chairs: Efi Koutsouveli (GR)</i> <i>Daniela Thorwarth (DE)</i></p> <p>Challenges and Potentials of Surface Guided Radiotherapy. <i>Ilaria Rinaldi (NL)</i></p> <p>The Value of Quantitative Imaging from Hybrid PET-CT for the Development of Personalised Approaches to Radiation Therapy. <i>Emiliano Spezi (UK)</i></p> <p>MR-guided Radiotherapy: Working at the Boundary of MR Physics and RT Physics. <i>Rob Tijssen (NL)</i></p>	<p>Joint Session EFRS</p> <p>Optimising Radiographic Examinations when Considering Patient Size. <i>Hendrik Erenstein (NL)</i></p> <p>Radiographers and the BSS Directive: towards Harmonised Radiographic Practice. <i>Shane Foley (IE)</i></p>	<p>Joint Session COCIR</p>	<p>Joint Session AAPM Cutting Edge Technologies in CT <i>Chair: Mika Kortensniemi (FI)</i></p> <p>High Resolution CT with Scintillating Detectors. <i>Ioannis Sechopoulos (NL)</i></p> <p>Photon Counting Detector CT. <i>Cynthia McCollough (USA)</i></p> <p>AI Applications Coming Soon to a CT Scanner near You. <i>Marc Kachelriess (NL)</i></p>
15:00	<p>Scientific Session RT</p>	<p>Scientific Session DIR</p> <p>Results from EUCLID (European study on clinical DRLs). <i>John Damilakis (GR)</i></p>	<p>Scientific Session NM</p>	<p>Joint Session EUTEMPE</p> <p>History and Future of EUTEMPE-RX. <i>Hilde Bosmans (BE)</i></p> <p>Educational Aspects of the Online Part of EUTEMPE-RX Modules. <i>Danielle Dobbe (NL)</i></p> <p>An Example EUTEMPE-RX Module in Ferrara (Italy): 'Advanced Techniques in X-ray Imaging'. <i>Angelo Taibi (IT)</i> <i>Paolo Cardarelli (IT)</i></p>
16:00	<i>Coffee break</i>			
16:30	<p>ECMP welcomes Spain Brachytherapy <i>Chair: José Pérez-Calatayud (ES)</i></p> <p>In-vivo Dosimetry in Brachytherapy. <i>Antonio Herreros (ES)</i></p> <p>Skin Brachytherapy. <i>Victor González (ES)</i></p> <p>New Algorithms in Brachytherapy Dosimetry. <i>Facundo Ballester (ES)</i></p> <p>Cervix Brachytherapy. <i>José Pérez-Calatayud (ES)</i></p>	<p>Scientific Session DIR Spectral Imaging</p> <p>Clinical Applications of Spectral Imaging and Dynamic CT. <i>Nico Buls (BE)</i></p>	<p>Scientific Session NM Image Processing, Machine Learning and Radiomics</p> <p>Radiomics for Nuclear Medicine. <i>Matthieu Hatt (FR)</i></p>	<p>ECMP welcomes Spain Proton Therapy <i>Chair: Alejandro Mazal (ES)</i></p> <p>PENH, a PENELOPE Extension for Proton Transport. <i>Francesco Salvat (ES)</i></p> <p>Proton RBE: Irradiating Cells at CNA. <i>Isabel Gallardo (ES)</i></p> <p>The New Proton-therapy Facilities in Spain. <i>Alejandro Mazal (ES)</i> <i>Diego Azcona (ES)</i> <i>Samuel Ruiz-Arrebola (ES)</i></p>
18:00	Opening Ceremony			
19:00	Welcome Cocktail Reception			



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Time table	room 500	room LONDRA	room MADRID	room ISTANBUL
8:00	<p>Refresher Course RT Radiotherapy: MRI and Dual Energy CT in Radiotherapy - Competitive or Complimentary?</p> <p>Dual-energy CT for Radiotherapy Applications. <i>Wouter van Elmpt (NL)</i></p> <p>MR-guided Radiotherapy. <i>Simeon Nill (UK)</i></p>	<p>Refresher Course DIR Diagnostic and Interventional Radiology: Artificial Intelligence in DIR</p> <p>Practical Machine Learning for Clinical Scientists. <i>Theocharis Berris (AT)</i></p> <p>Clinical Implementation of Artificial Intelligence in Radiology of Brain. <i>Nico Buls (BE)</i></p>	<p>Refresher Course NM Nuclear Medicine: Hybrid Imaging</p> <p>SPECT/CT. <i>Brian Hutton (UK)</i></p> <p>PET/CT & PET/MR. <i>Bernhard Sattler (DE)</i></p>	<p>ECMP Welcomes Spain Monte Carlo Embracing Change, Sharing Knowledge</p> <p>Monte Carlo in Imaging. <i>José M. Udías (ES)</i></p> <p>Monte Carlo Unusual Applications. <i>Antonio M. Lallena (ES)</i></p>
9:00	<p>Scientific Session RT Emerging RT Techniques</p> <p>Automated Treatment Planning - Potentials and Limitations. <i>Ben Heijmen (NL)</i></p>	<p>Scientific Session DIR New Imaging Technology</p> <p>New Technologies for Mammography Imaging. <i>Gisella Gennaro (IT)</i></p>	<p>Scientific Session NM</p> <p>The First Total Body PET Scanner (EXPLORER). <i>Terry Jones (USA)</i></p>	<p>Special Focus Session Emerging Technologies</p> <p>New Technologies in Hadron Therapy. <i>Reinhard Schulte (USA)</i></p>
10:30	<i>Coffee break</i>			
11:00	<p>Scientific Session RT</p>	<p>Scientific Session DIR MRI Safety</p>	<p>Scientific Session NM</p>	<p>Special Focus Session Education, Training and Registration of Medical Physics Experts in Europe: Now and in the Future <i>Chairs:</i> <i>Adriaan Lammertsma (NL)</i> <i>Carmel Caruana (MT)</i></p> <p>Education, Training and Registration of MPes in Europe: an Overview. <i>Ad Maas (NL)</i></p> <p>Education, Training and Registration under National Law: a Dutch Treat. <i>Marion Essers (NL)</i></p> <p>Education, Training and Registration Supervised by the Government. <i>Antonio Lopez (ES)</i></p> <p>The New Core Curriculum for Radiotherapy MPes. <i>Cristina Garibaldi (IT)</i></p>
12:30	<i>Break [Lunch Symposia, Exhibition, Posters]</i>			



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Friday 18 June 2021

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14:00	<p>Joint Session EANM</p>	<p>Joint Session IAEA <i>Chairs: Virginia Tsapaki [GR] Marco Brambilla [IT]</i></p> <p>IAEA Human Health Campus and E-learning Platform. <i>Gian Luca Poli [IT]</i></p> <p>EFOMP Cone Beam CT Protocol: a Joint Initiative between EFOMP, IAEA and ESTRO. <i>Harry Delis [AT]</i></p> <p>How Croatia and Serbia Benefited from IAEA. <i>Dario Faj [HR] Borislava Petrovic [SRB]</i></p>	<p>Joint Session ESMRMB Quality Control in Hybrid MR Imaging <i>Chair: Ioannis Seimenis [GR]</i></p> <p>Challenges of Quality Assessment and Control in Hybrid Imaging. <i>Bernhard Sattler [DE]</i></p> <p>Quality Control in the MR LINAC. <i>Andreas Wetscherek [UK]</i></p> <p>Quality Control in PET-MR. <i>Georg Schramm [BE]</i></p>	<p>Joint Session EuSoMII Deep-Learning Applications in Mammography</p> <p>Technical Challenge. <i>Jonas Teuwen [NL]</i></p> <p>Clinical Implementation and Evaluation. <i>Sue Astley [UK]</i></p> <p>Integration in the Workflow of the Radiology Ecosystem: a European Deployment. <i>Katia Katsari [NL]</i></p>
15:00	<p>Scientific Session RT Innovative Techniques in Radiotherapy. <i>Yolanda Prezado [FR]</i></p>	<p>Scientific Session DIR</p>	<p>Scientific Session NM</p>	<p>EORTC Joint Session The Role of Medical Physicists in Clinical Trials</p>
16:00	<i>Coffee break</i>			
16:30	<p>Scientific Session RT Plan QA Using Complexity Metrics Complexity Metrics for RT Plan QA. <i>Victor Hernandez [ES]</i></p>	<p>Scientific Session DIR Optimisation and Harmonisation of Imaging Protocols in Radiology Approaches for Optimization of CT Examinations. <i>Elly Castellano [UK]</i></p>	<p>Scientific Session NM Quantitative SPECT. <i>Brian Hutton [UK]</i></p>	<p>Special Focus Session Professional Matters Mentorship <i>Chairs: Adriaan Lammertsma [NL] Ad Maas [NL]</i></p> <p>How to Write a Grant Application. <i>Yolanda Prezado [IE]</i></p> <p>How to Write a Scientific Paper. <i>Annalisa Trianni [IT]</i></p> <p>Mentorship Model to Guide Resident Physicists. <i>Markus Buchmeister [DE]</i></p> <p>Retrospective Look through 20 Years of Physica Medica European Journal of Medical Physics. <i>Paolo Russo [IT]</i></p>
Evening	Congress Social Event			



European Congress of Medical Physics

Saturday 19 June 2021

SATURDAY 19 JUNE 2021

Time table	room 500	room LONDRA	room MADRID	room ISTANBUL
8:00	<p>Refresher Course RT Radiotherapy: SBRT - Physics Principles and In-vivo Dosimetry Physics Principles of SBRT. <i>Nuria Jornet [ES]</i> In-vivo Dosimetry for SBRT. <i>Marco Esposito [IT]</i></p>	<p>Refresher Course DIR Diagnostic and Interventional Radiology: Updating the Diagnostic Reference Levels DRLs: The Good, The Bad and The Ugly. <i>Madan Rehani [USA]</i> Clinical Dose Reference Levels for CT Examinations. <i>Natalia Saltybaeva [CH]</i></p>	<p>Refresher Course NM Nuclear Medicine: Theranostics State of the Art in Nuclear Medicine Theranostics. <i>Glenn Flux [UK]</i></p>	<p>Refresher Course Embracing Change, Sharing Knowledge Predicting Radiotherapy Outcomes Using Real-world Clinical Data. <i>Leonard Wee [NL]</i></p>
9:00	<p>Scientific Session RT Dose Verification and Auditing for New Technologies PRIMO: a Monte Carlo Engine for Treatment Planning Verification. <i>Josep Sempau [ES]</i></p>	<p>Scientific Session DIR Image Post-processing Technology and Applications Fluoroscopic Imaging: Noise Reduction Versus Introduction of Lag-comparison between Different Vendors. <i>Bente Konst [NO]</i></p>	<p>Scientific Session NM Digital PET. <i>Ronald Boellaard [NL]</i></p>	<p>EFOMP Council Meeting</p>
10:30	<i>Coffee break</i>			
11:00	<p>Joint Session ESR Cumulative Radiation Dose from Medical Imaging in Chronic/Recurrent Patients or in a Single Episode of Care. <i>Marco Brambilla [IT]</i></p>	<p>Scientific Session Biomedical Engineering</p>	<p>Scientific Session Developments in Non-ionising Modalities; US and MRI</p>	<p>EFOMP Council Meeting</p>
12:00	<p>Plenary Session Chair: <i>Mika Kortnesniemi [FI]</i> The Data-driven Future of Medical Physics. <i>Leonard Wee [NL]</i></p>			
12:30	<p>Award of the Best Oral Presentation and Poster Chair: <i>Mika Kortnesniemi [FI]</i></p>			
13:00	<p>Closing Session</p>			