ECMP 2022 Provisional Programme

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Thursday 18 August 2022

8.00-9.00	**Refresher Course** **Radiotherapy: Open Source Software for Radiotherapy Physics Research**	**Refresher Course** **Nuclear Medicine: Diagnostic Nuclear Medicine**	**Refresher Course** **Diagnostic and interventional radiology: Two scoops of CT: Photon counting CT (PCCT) and CT interventional procedures-State of the art and specific QC tasks for the medical physicist**	**Refresher Course** **Multiple Energies Single Patient Focus: New Technologies**
	Chair: Conor McGarry; Northern Ireland	**Chair: Irene Polycarpou; Cyprus**	**Chair: Irene Hernandez-Giron; The Netherlands**	**Chair: Maria San Merce; Switzerland**
	MATRAD - an Open Source TPS Software for Radiotherapy Research; Niklas Wahl, DKFZ, Germany	Improvement in the time resolution of TOF and the use of SiPM; Antonio Gonzalez, CSIC (Spanish National Research Council) Spain,	Basics of Photon counting; Marc Kachelriess, DKFZ, Germany	Technology Underlying CBCT and the challenges in dosimetry for CBCT; Osvaldo Rampado, Citta' della Salute e della Scienza di Torino, Italy
	Open source scripting in modern TPS; Jakob Ödén, Karolinska Institutet, Sweden	Technological advances in SPECT and PET ; Stefaan Vandenberghe, Ghent University Institute of Biomedical engineering and technology ,Belgium	Acceptance and QC of PCCT systems; Marcel van Straten; Erasmus Medical Centre, The Netherlands	CBCT in Diagnostic Modalities and the Role of CBCT in RT ; Aoife Gallagher, University Hospital Limerick, Ireland
9:00-10:30	**Scientific Session RT**	**Scientific Session NM: Optimization in PET and SPECT**	**Scientific Session DIR**	**Scientific Session: Emerging Methods, including educational and professional matters**
	Keynote: AI in Radiotherapy; Jennifer Dhont, Institute Jules Bordet, Belgium	**Keynote: Novelty of solid state detectors for dynamic SPECT ; Laetitia Imbert, University Hospital of Nancy, France**	**Keynote: Paediatric interventional cardiology - How to estimate and communicate radiation dose and risk? Angeliki Karambatsakidou, Karolinska University Hospital, Sweden**	**Keynote : How AI can improve radiation protection in medical imaging Habib Zaidi, Geneva University Hospital , Switzerland**
	Accepted abstracts	Accepted abstracts	Accepted abstracts	Accepted abstracts
10:30 - 11:00	**Coffee Break**			
11:00-12:30	**Scientific Session RT**	**Scientific Session NM: Image processing, machine learning and radiomics**	**Scientific Session: Cumulative Dose**	**ECMP welcomes NL : Protons, photons and children: the Dutch philosophy**
	Accepted abstracts	**Keynote: Artificial Intelligence in Nuclear Medicine; Irene Buvat, Institut Curie Research Center, Orsay, France**	Risk communication and radiation, David Robert Grimes (IE)	The Model Based Approach: Patient Treatment and Technology Selection, Stefan Both, UMCG (20 min)
		Accepted abstracts	The gamblers fallacy, Colin Walsh (IE)	Protons or photons for children in the Netherlands - Witold Matysiak- UMCG (20 min)
			"Cumulative dose: the epidemiological basis" , Marco Brambilla (IT)	Advances in pediatric TBI techniques, Enrica Seravalli, UMCU (15 min)
			The AAPM statement on Cumulative dose, Mahadevappa Mahesh (USA)	Brachytherapy for pediatrics, Petra Kroon, UMCU (15 min)
			Focus on Patient safety, Madan Rehani (USA)	AI driven developments in Radiotherapy, Adrian Thummerer, UMCG (15 min)
			Discussions /Questions	Discussion/Questions/ Technical issues
12:30-14:00	**Lunch Break; Exhibition, Posters** **Lunchtime Sponsored Symposia: Rooms to be confirmed** **Walkabout & Talkabout: Art to Challenge and Inspire Medical Physics**			
14:00-15:00	**Joint Session ESTRO**	**Joint Session EFRS**	**Joint Session EURADOS**	**Joint Session EORTC**
	Chair: Efi Koutsouveli (GR)	**Chair: Geraldine O'Reilly (IE)**	**Chair: Marco Brambilla (IT)**	**Chair: Loredana Marcu (RO)**
	Implementation of the new Core Curriculum for Medical Physics Experts in Radiotherapy - Cristina Garibaldi (IT)	The Future of the radiography profession in imaging, radiotherapy and nuclear medicine: opportunities for collaboration with medical physics – Graciano Paulo (PT)	Out-of-field doses and associated risk of cancer in radiotherapy, Michalis Mazonakis (GR)	Consensus process on the pre-trial procedures - Enrico Clementel (BE)
	Developing a new CC for Medical Physics Experts in Nuclear Medicine & Radiology: Current status - Christoph Bert (DE)	Joining forces - the benefits of a multidisciplinary approach to radiation protection in medical imaging – Shane Foley (IE)	How to appropriately determine non target doses in radiotherapy, Liliana Stolarczyk (DK)	QA in radiological imaging clinical trials: a medical physicist's perspective on biomarker reproducibility - Stephane Chauvie (IT)
	Challenges and opportunities of merging the CCs of all three Medical Physics disciplines into one common MPE CC - Ben Heijmen (NL)	A suggested rational scheme for roles for the different professions in medical radiation protection – Carmel Caruana (MT)	Out-of-field doses in photon and proton therapy in case of paediatric patients: Lessons learnt from Eurados intercomparisons - Zeljka Knezevic (CR)	Radiotherapy trials QA: contouring, planning and beyond - Nathalie Abbot (UK)
15:00-16:00	**Scientific Session RT**	**Scientific Session NM**	**Scientific Session Hybrid and new techniques**	**Scientific Session: Radiation Protection Dosimetry**
	Accepted abstracts	Accepted abstracts	Accepted abstracts	Accepted abstracts
16:00-16:30	**Coffee Break**			
16:30-18:00	**Scientific Session RT**	**Scientific Session AI**	**Scientific Session DIR**	**Scientific Session RP**
	Accepted abstracts	Accepted abstracts	Accepted abstracts	Accepted abstracts

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Friday 19 August 2022

	Refresher Course Radiotherapy: MC use in radiation therapy: from research tool to clinical application	**Refresher Course Nuclear Medicine: Molecular Radiotherapy**	**Refresher Course Diagnostic and interventional radiology: Artifical Intelligence**	**Professional Focus Session Education, Training and Registration of MPE in Euope: Now and in the Future**
	Chair: Brendan McClean; Dublin	**Chair: Roberta Matheoud; Italy**	**Chair: Leonard Wee; The Netherlands**	**Chair: Loredana Marcu; Romania**
8.00-9.00	Monte Carlo for Radiation therapy; Michael Fix; Inselspital – University of Bern, Switzerland	Radioprotection optimization in radionuclide therapy; Ana Millan, Technicas Radiofisicas S.L.,Spain	Fundamentals of Artificial Intelligence; Carlotta Masciocchi; Gemelli Generator-Università Cattolica del Sacro Cuore, Italy	EFOMP MPE status and the road to no borders across our profession; Brenda Byrne, Mater Misericordiae University Hospital, Ireland
	Monte Carlo tools for clinical applications; Antonio Lead Plaza; University of Seville, Spain	Waste management and errors in administration; Speaker TBC	Artificial Intelligence across Medical Physics; Issam el Naqa, Moffit Cancer Institute, USA	Mobility and Identity of the European Medical Physicist: EFOMPs perspective; Paddy Gilligan, Mater Misericordiae University Hospital, Ireland
	Scientific Session RT: Emerging RT techniques	**Scientific Session NM: Dosimetry and radiation protection in nuclear medicine**	**Scientific Session DIR: New imaging technology**	**Scientific session: Radiation Protection Dosimetry**
9:00-10:30	Accepted abstracts	**Keynote: Dosimetry for LUT patients; Jens Kurth, University of Rostock, Rostock, Germany**	**Keynote: Virtual imaging in research and clinical trials; Prof. Ehsan Samei, Duke University, USA**	Accepted abstracts
		Accepted abstracts	Accepted abstracts	
10:30 - 11:00	**Coffee Break**			
	Scientific Session RT	**Scientific Session NM: Molecular radiotherapy**	**Scientific Session DIR: MRI**	**Welcome Nation Refresher Course**
11:00-12:30	Accepted abstracts	Accepted abstracts	Accepted abstracts	Welcome Nation Talks
12:30-14:00	**Lunch Break; Exhibition, Posters** **Lunchtime Sponsored Symposia: Rooms to be confirmed** **Walkabout & Talkabout: Art to Challenge and Inspire Medical Physics**			
	Joint Session AAPM	**Joint Session IAEA**	**Joint Session ESMRMB - Quantitative MRI**	**Joint Session EANM**
	Chair: Yolanda Prezado (ES)	**Chair: Mika Kortesniemi (FI)**	**Chair: Cormac McGrath (NI)**	**Chair: Roberta Matheoud (IT)**
14:00-15:00	A joint international effort: report on TG359 - Dimitris Mihailidis (US)	Quality Control testing in radiology: Latest updates - Richard Elek (HU)	Technical Developments in QMRI - Matt Hall (UK)	The recent EANM guidelines for dosimetry and for the treatment of liver neoplasm - Carlo Chiesa (IT)
	Development of suitable detectors. calorimeters for UHDR - Anna Subiel (UK)	From technical to clinical data focus of QC in radiology imaging - Mika Kortesniemi (FI)	Quality Assurance in QMRI - Xavier Golay (UK)	Measurement Challenges in Selective Internal Radiation Therapy - Ana Denis Bacelar (UK)
	Implementation & dosimetry for the first in-human trial of Flash radiotherapy - Anthony Mascia (US)	From conventional to automated QC in radiology imaging - Virginia Tsapaki (AT)	The Clinical Value of QMRI - Michela Tosetti (IT)	Commissioning and planning of treatment planning systems for selective internal radiation therapy - Lidia Strigari (IT)
	Scientific Session RT		**IAPM Session - Wil Van der Putten talk**	**Meet the SIG Radionuclide internal dosimetry**
15:00-16:00	**Keynote: The Mayo Clinic Experience Treating Patients with Spatially Fractionated Radiation Therapy; Prof. Mike Grams, Mayo Clinic, USA**		Keynote	EFOMP SIG
	Accepted abstracts			
16:00-16:30	**Coffee Break**			
	Scientific Session RT: TOPIC FLASH	**Welcome Nation Scientific Session: Going Dutch - Medical Physics in the Netherlands**	**Scientific Session DIR: Optimisation and harmonisation of imaging protocols in radiology**	**Special Focus Session** Professional Matters
16:30-18:00	Accepted abstracts	Welcome Nation Scientific Session	Accepted abstracts	**Keynote: Medical Physics 3.0; Prof. Ehsan Samei, Duke University, USA**
				Accepted abstracts

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Saturday 20 August 2022

8.00-9.00	**Refresher Course** **Radiotherapy: Particles Therapy**	**Special Focus Session** **Emerging themes and technologies in medical physics special focus session: Green Physicist**	**Refresher Course** **Diagnostic and interventional radiology: Very low and very high field MRI**	**Refresher Course** **Multiple Energies Single Patient Focus: Foetal Exposure in Diagnostic Imaging**
	Chair: Joao Seco; Germany	**Chair: Emer Kenny; Ireland**	**Chair: Andrew Webb; The Netherlands**	**Chair: Geraldine O'Reilly; Ireland**
	Protons in Clinical Practice; Stefan Both, Groningen University Medical Centre, The Netherlands	Medical Physics and the Climate Crisis; Rob Chuter, The Christe NHS Foundation Trust, UK	Very high field MRI; Karin Markenroth Bloch; Lund University Bioimaging Center, Sweden	Feotal Exposure for External Radiation in Diagnostic Imaging: Exposure Levels, Dosimetry and Implications; Natalia Saltybaeva, University of Zurich, Switzerland
	Carbon Ions in Clinical Practice; Oliver Jäkel; DKFZ, Germany	Solar powered radiotherapy : a global solution for high income countries and an opportunity for low and middle income countries too; Holger Wirtz, Lake of Constance Radiation-Oncology Center, Germany	Very low field MRI; Najat Salameh, University of Basel, Switzerland	Foetal Dose Estimation from Administration of Radionuclides. Exposure Levels. Dosimetry and Implications; Sigrid Leide-Svegborn; Lund University, Sweden
9:00-10:30	**Scientific Session RT**	**Scientific Session Paediatric**		**EFOMP Council Meeting**
	Accepted abstracts	Accepted abstracts		
10:30 - 11:00	**Coffee Break**			
11:00-12:00	**Joint Session ESR - Dose reference levels**	**Scientific Session Biomedical Engineering**	**Scientific Session: Developments in non-ionising modalities**	**EFOMP Council Meeting**
	Chair: Kirsten Bolstad (NO)	Accepted abstracts	Accepted abstracts	
	Local DRLs - Hugues Brat (SW)			
	Physics perspective of DRLs - Ingvild Dalehaug (NO)			
	Clinical DRLs for CT - Franz Kainberger (AT)			
12:00-12:30	**Award of the best Oral Presentation and Poster, Medal Award ceremony and talk**			
13.00-14.00	**Closing sessions** **Chair: Paddy Gilligan**			
14:00-18:00				