Refresher Programme at a glance

Thursday 18 August 2022				
Timetable	**Room1**	**Room2**	**Room3**	**Room4**
08:00-9:00	**Refresher Course RT** Open Source TPS Software for Radiotherapy Research, Developments and Use in Medical Physics	**Refresher Course NM** Improvement in the time resolution of TOF and the use of SiPM. - Technological advances in SPECT and PET	**Refresher Course DIR** Photon counting CT (PCCT) -State of the art and specific QC tasks for the medical physicist	**Refresher Course MESPF** Technology Underlying CBCT and the challenges in dosimetry for CBCT; CBCT in Diagnostic Modalities and the Role of CBCT in RT
Friday 19 August 2022				
Timetable	**Room1**	**Room2**	**Room3**	**Room4**
08:00-9:00	**Refresher Course RT** Monte Carlo for Radiation therapy and Clinical Applications	**Refresher Course NM** Radioprotection optimization in radionuclide therapy. - Waste management and errors in administration.	**Refresher Course DIR** Fundamentals of AI / AI across medical physics	**Professional Focus Session** Education, Training and Registration of Medical Physics Experts in Europe: Now and in the Future
Saturday 20 August 2022				
Timetable	**Room1**	**Room2**	**Room3**	**Room4**
08:00-9:00	**Refresher Course RT** Particle Therapy: Protons and Carbon Ions	**Special Focus Session** Green Physics	**Refresher Course DIR** MRI. Very low and very high field MRI	**Refresher Course MESPF** Foetal Exposure for External Radiation in Diagnostic Imaging and Dose Estimation from Administration of Radionuclides. Exposure Levels. Dosimetry and Implications

ECMP 2022 Refresher Course Detailed Programme

Thursday 18 August 2022				
Session	**Refresher Course**	**Refresher Course**	**Refresher Course**	**Refresher Course**
Session Title	**Radiotherapy: Open Source Software for Radiotherapy Physics Research**	**Nuclear Medicine: Diagnostic Nuclear Medicine**	**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**	**Multiple Energies Single Patient Focus: New Technologies**
Chair	**Conor McGarry; Northern Ireland**	**Irene Polycarpou; Cyprus**	**Irene Hernandez-Giron; The Netherlands**	**Maria San Merce; Switzerland**
8.00-9.00	**Niklas Wahl; DKFZ, Germany / MATRAD - an Open Source TPS Software for Radiotherapy Research**	**Antonio Gonzalez, CSIC (Spanish National Research Council), Improvement in the time resolution of TOF and the use of SiPM**	**Marc Kachelriess, DKFZ, Germany / Basics of Photon counting**	**Osvaldo Rampado; Technology Underlying CBCT and the challenges in dosimetry for CBCT**
	Jakob Ödén; Karolinska Institutet, Sweden / Open source scripting in modern TPS	**Stefaan Vandenberghe; Ghent University Institute of Biomedical engineering and technology ,Belgium / Technological advances in SPECT and PET**	**Marcel van Straten; Erasmus Medical Centre, The Netherlands / Acceptance and QC of PCCT systems**	**Aoife Gallagher, University Hospital Limerick, Ireland / CBCT in Diagnostic Modalities and the Role of CBCT in RT**
Friday 19 August 2022				
Session	**Refresher Course**	**Refresher Course**	**Refresher Course**	**Professional Focus Session**
Session Title	**Radiotherapy: MC use in radiation therapy: from research tool to clinical application**	**Nuclear Medicine: Molecular Radiotherapy**	**Diagnostic and interventional radiology: Artifical Intelligence**	**Education, Training and Registration of MPE in Euope: Now and in the Future**

Chair	Brendan McClean; Dublin	Roberta Matheoud; Italy	Leonard Wee; The Netherlands	Paddy Gilligan; Mater Misericordiae University Hospital, Ireland
8.00-9.00	Michael Fix; Inselspital – University of Bern, Switzerland / Monte Carlo for Radiation therapy	Ana Millan; Technicas Radiofisicas S.L.,Spain / Radioprotection optimization in radionuclide therapy	Carlotta Masciocchi; Gemelli Generator-Università Cattolica del Sacro Cuore, Italy / Fundamentals of Artificial Intelligence	Brenda Byrne; Mater Misericordiae University Hospital, Ireland / EFOMP MPE status and the road to no borders across our profession
	Antonio Lead Plaza; University of Seville, Spain / Monte Carlo tools for clinical applications	Mario Marengo; University of Bologna, Italy / Waste management and errors in administration	Issam el Naqa; Moffit Cancer Institute, USA / Artificial Intelligence across Medical Physics	Olivier Lanoo EU Commission DG Grow /Professional mobility & Common Training Frameworks under the Professional Qualifications Directive (Directive 2005/36/EC) (VIrtual Presentation)
Saturday 20 August 2022				
Session	Refresher Course	Special Focus Session	Refresher Course	Refresher Course
Session Title	Radiotherapy: Particles Therapy	Emerging themes and technologies in medical physics special focus session: Green Physicist	Diagnostic and interventional radiology: Very low and very high field MRI	Multiple Energies Single Patient Focus: Foetal Exposure in Diagnostic Imaging
Chair	Joao Seco; Germany	Emer Kenny; Ireland	Andrew Webb; The Netherlands	Geraldine O'Reilly; Ireland
8.00-9.00	Stefan Both; Groningen University Medical Centre, The Netherlands / Protons in Clinical Practice	Rob Chuter, The Christe NHS Foundation Trust, UK / Medical Physics and the Climate Crisis	Karin Markenroth Bloch; Lund University Bioimaging Center, Sweden / Very high field MRI	Natalia Saltybaeva; University of Zurich, Switzerland / Feotal Exposure for External Radiation in Diagnostic Imaging. Exposure Levels. Dosimetry and Implications
	Oliver Jäkel; DKFZ, Germany / Carbon Ions in Clinical Practice	Holger Wirtz; Lake of Constance Radiation-Oncology Center, Germany / Solar powered radiotherapy : a global solution for high income countries and an opportunity for low and middle income countries too	Najat Salameh; University of Basel, Switzerland / Very low field MRI	Sigrid Leide-Svegborn; Lund University, Sweden / Foetal Dose Estimation from Administration of Radionuclides. Exposure Levels. Dosimetry and Implications