

Saturday, September 3rd 2016

TIME	HALL A Eugenides Foundation (Main Auditorium)	HALL B Metropolitan Hotel (Aegean Sea Ballroom)	HALL C Eugenides Foundation (Conference Hall)
08:00-09:00	<p>Scientific Session: Radiotherapy Moderators: G. Kyrgias, P. Platoni</p> <p>Tolerance levels and methodologies for IMRT verification QA D. Mihailidis, N. Papanikolaou</p> <p>Oral Presentations</p> <p>0152 Relative Efficiency of EBT3 Radiochromic Films to Proton and Carbon ION Beams R. Castriconi, M. Ciocca, A. Mirandola, C. Sini, S. Broggi, M. Schwarz, F. Fracchiolla, G. Mettievier, P. Russo</p> <p>0153 Empowering Radiation Therapy Effect Through a Nanotechnology Based Enzymatic Therapy R.D. Esposito, D. Planes Meseguer, P. Dorado Rodríguez, V.M. Barberá, M. Saceda, L. Fernandez Fornos</p> <p>0154 Characterization of Ytterbium-Doped Silica Optical Fibre as Scintillator Dosimeter I. Veronese, E. Mones, G. Loi, S. Cialdi, M. Gargano, N. Ludwig, E. D'Ippolito, M. Fasoli, N. Chiodini, A. Vedda</p> <p>0155 Low Dose Characterization Of Fricke Gel Dosimeters by Optical Absorbance and MR Relaxation Methods G. Gambarini, I. Veronese, L. Bettinelli, M. Felisi, N. Ludwig, M. Gargano, M. Carrara, G. Collura, S. Gallo, A. Longo, M. Marrale, L. Tranchina, F. d'Errico</p>	<p>Scientific Session: Imaging Moderators: M. Mahadevappa, F. Zanca</p> <p>Invited Talk DICOM standards for patient dosimetry A. Trianni</p> <p>Oral Presentations</p> <p>0164 Quality Control in Diagnostic Imaging Using Images of Patient Studies P. van der Tol, J. M. den Harder, L. Bravaglieri, W. J.H. Veldkamp, J. Geleijns</p> <p>0165 Creation of a Paediatric Head Voxel Model Database for Dosimetric Applications N. Touyz, A. Stratis, G. Zhang, R. Jacobs, R. Bogaerts, H. Bosmans</p> <p>0166 Evaluation of Breast Software Model for X-Ray 2D and 3D Mammography Imaging Y. Baneva, L. Cockmartin, H. Bosmans, N. Marshall, G. Mettievier, P. Russo, K. Bliznakova</p> <p>0167 A Utility to Read Automatically Dicom Format Data for GAMOS/GEANT4 Simulation P. Arce, J. Ignacio Lagares, D. Azcona</p>	<p>Scientific Session: Radiation Protection in Diagnostic Radiology Moderators: Z. Bliznakov, I. Duhaini</p> <p>Oral Presentations</p> <p>0179 Italian Report for Radioprotection of Neonatal Intensive Care Unit (Nicu) Patients A. del Vecchio, A. Loria, M. Campoleoni, A. Ciccarone, E. Genovese, C. Minari, N. Parruccini, S. Strocchi, G. Zatelli, M. Agosti, F. Vimercati</p> <p>0180 Correction of Scattering Effects in Cone Beam CT Kasch Kay-Uwe</p> <p>0181 TC Protocol Optimization: A Quantitative Approach M. Biondi, A. La Penna, E. Vanzi, L. N. Mazzone, G. De Otto, G. M. Belmonte, E. Foderà, R. Martini, G. Imbriaco, F. S. Carbone, A. Guasti, L. Volterrani, F. Banci Buonamici</p> <p>0182 Web Based National Patient Dose Survey in Diagnostic and Interventional Radiology. Preliminary Results and Analysis of Survey Performance F. Simeonov, D. Kostova-Lefterova, D. Ivanova, J. Vassileva</p> <p>0183 Local Diagnostic Reference Levels in Children's CT Examinations According to the New European Guidelines T. Makri, A. Tsilimidou, V. Syrgiamiotis, C. Xatzigiorgi</p> <p>0184 A 9-Years Follow-Up of Occupational Radiation Doses in An Interventional Cardiology Department D. Kostova-Lefterova, H. Mateev, A. Aleksandrov, E. Ivanova, J. Vassileva</p>
09:00-10:30	<p>Refresher Course: Advances In Charged Particle Radiotherapy For Paediatric Tumours Moderator: J. Kalef-Ezra</p> <p>General overview on charged particle therapy- current status and future challenges</p>	<p>Joint EFOMP-EANM Session: Quantitative Imaging And Dosimetry In Nuclear Medicine Moderators: S. Holm, M. Konijnenberg</p> <p>Instrumentation/Optimization/QC of imaging for Nuclear Medicine diagnostic dosimetry</p>	<p>Scientific Session: Radiation Protection in Radiotherapy Moderators: I. Stamatelatos, V. Peppas</p> <p>Oral Presentations</p>

M. Ciocca

Expected clinical benefits and challenges from particle therapy for paediatric tumours

S. Schulz

The future role of particle beams in the treatment of paediatric tumours, by a medical physics point of view

A. Bolsi

S. Holm

Dosimetry methodology for diagnostic Nuclear Medicine

U. Eberlein

Dosimetry based optimisation in Molecular Radiotherapy

M.Konijnenberg

- 0185** Optimization of IMRT Techniques for Two Dose Levels Irradiation of Larynx Cancer
A. Youssoufi, M.Bougtrib, M. El Baraka, M.Erraoudi, F. Bentayeb
- 0186** EPID-Based Dosimetry Using a Commercial Software: Gamma Analysis and DVH Metrics for VMAT Pre-Treatment and In-Vivo QA
E. Villaggi
- 0187** High Dose Radiotherapy Can Be Preserved Normal Tissues From Bystander Effects Of Irradiated Tumors
M. T. Bahreyni Toossi, S. Soleymanifard, S. Khademi, H. Azimian, S. Mohebi
- 0188** Assessment of the Dosimetric Impact when Modelling Complex-Shaped Multi-Leaf Collimators in Monte Carlo Simulations
Á. Perales, M.A. Cortés-Giraldo, M.I. Gallardo, H. Miras, R. Arráns
- 0189** Optimization of Minimal Beam Size for Spatial Fractionation of the Dose Using Ions
W. Gonzalez, C. Peucelle, Y. Prezado
- 0190** Inter Observer Variation in Delineating Lumpectomy Cavity and CTV for Patients Undergoing APBI Using Intra-Operative Implants and ITS Impact on Implant Dosimetry
R. R.Upreti, A.Budrukkar, T.Wadasadawala, S. Mishra, L. Naidu, R. Pathak, D. D.Deshpande
- 0191** Implementation in Clinical Use of a New Plan Verification Software for Conformational and Modulated Treatments
A. Barateau, J. Mesgouez, D. Autret, M. Bremaud, C. Di Bartolo, S. Dufreneix, C. Legrand
- 0192** Development of External Dosimetry Audits for Advanced Technology in Radiotherapy Dose Delivery: An Iaea Coordinated Research Project
J. Izevska, P. Wesolowska, W. Lechner, D. Georg, M. Tomsej, D. Followill, S. Kry, M. Tenhunen, J. Povall, D. Thwaites
- 0193** Assessment of Portal Dosimetry Accuracy as a QA Tool for VMAT Clinical Treatment Plans Using Dolphin/Compass Tools
M. Tomsej, A. Monseux, V. Baltieri, C. Leclercq, A. Sottiaux

10:30-11:00

Coffee Break

10:30-11:00	<p>Satellite Lecture (sponsored by Bracco Injeneering S.A) Moderator: E. Seccamani</p> <p>Patient Dose and ALARA in a compliant world A. Torresin</p>		
11:00-12:00	<p>Special Session: Technology-Enhanced Education In Medical Physics Moderator: S. Tabakov</p> <p>Successes and Challenges of e-Learning Practical Introduction in Medical Physics Education and Training S. Tabakov</p> <p>The Social Web: A New Communication Medium and Scientific Evaluation Tool G. Sanchez Merino</p>	<p>Refresher Course: CT dosimetry and optimization Moderator: A. Trianni</p> <p>Invited Talk Patient-specific dosimetry in CT G. Solomou</p> <p>Invited Talk CT dose optimization A. Papadakis</p>	<p>Scientific Session: Radiation Protection in Radiotherapy Moderators: S. Schulz, A. R. Figueira</p> <p>Oral Presentations</p> <p>0194 Dosimetric Confirmation of Monitor Chamber Positioning Following a Carousel Pullout on A Varian Truebeam Linac A. Sabbas, W.Daling, J. Keith DeWyngaert</p> <p>0195 The Reproduction for the Absorbed-Dose to Water of the Clinical Accelerator Photon Beams S. Jin, K.Wang, Y. Fan, Z.Wang, J. Huang, X. Yang, J. Zhang</p> <p>0196 A Comparative Plan Analysis: Constant and Variable Dose Rate VMAT and Step-And-Shoot IMRT in Head and Neck Cancer A. Didona, C. Aristei, C. Zucchetti, R. Tarducci, M. B. Panizza, A. Frattegiani</p> <p>0197 On the Spatial Sensitivity of a 3D Dosimetric Phantom E. Apostolou, R. Avgousti, C. Armpilia, A. Nikolakopoulou, A. Zygianni, C. Antypas</p> <p>0198 Electron Depth Dose Curves in Inhomogeneous Medium for Radiation Therapy: A Simulation Approach A. S. Jagtap, B.J. Patil, S.S. Dahiwale, V.N. Bhoraskar, S.D. Dhole</p> <p>0199 Effects of Interruptions for Public Holidays in Spain on Radiotherapy Treatments J.M. de la Vega, B. Ríos, J. Torres del Río, R. Guerrero, I. Castillo, D. Guirado</p>
12:00-13:00	<p>Special Session: Radiation Protection in Diagnostic Radiology Moderators: J. Edmund, E. Samsøe</p> <p>Invited Talk The Process, Status And Perspectives of the 2nd ECMP</p>	<p>Scientific Session: Imaging Moderators: G. Loudos, E. Dimovasili</p> <p>Invited Talk CERN breakthrough technologies for non-invasive, in vivo, image-guided diagnosis</p>	<p>Scientific Session: Radiobiology Moderators: A. Bolsi, P. Papadimitroulas</p> <p>Oral Presentations</p> <p>0200 Radiobiological Effects of Cancer Stem Cell-Targeting</p>

	<p>2018 in Copenhagen J. Edmund, E. Samsøe</p> <p>Oral Presentations</p> <p>0156 Radiation Safety Training In Medicine I. Duhaini</p> <p>0157 First Survey of Mammography Practice in Sudan: Radiation Exposure and Setting National Diagnostic Reference Levels <u>I.I. Suliman</u>, S. Awad, Alaa Mahdi, N. Ahmed</p> <p>0158 Comparison of Occupational Doses and Practice of the Interventional Cardiologists in One Department <u>D. Kostova-Lefterova</u>, H. Mateev, A. Aleksandrov</p> <p>0159 Proposed Dose Reference Levels in Radiography Procedures in Sudan <u>Nada A. Ahmed</u>, T.S. Mohammed, E.H. Basheir, A.B. Farah, I.I. Suliman</p>	<p>E. Dimovasilii</p> <p>Oral Presentations</p> <p>0168 A PET/SPECT/X-RAY Prototype for Whole Body Mouse Imaging <u>M. Georgiou</u>, E. Fysikopoulos, M. Rouchota, E. Fragogeorgi, K. Mikropoulos, P. Papadimitroulas, G. Kagadis, G. Loudos</p> <p>0169 Quantitative Analysis of Sentinel Lymph Node Detection Using a Novel Small Field of View Hybrid Gamma Camera (HGC) <u>M.S. Alqahtani</u>, J.E. Lees, S.L. Bugby, L.K. Jambi, B.S. Bhatia, W.R. McKnight, N.S. Dawood, A.H. Ng, A.C. Perkins</p> <p>0170 Assessment of Low Energy X-Ray Imaging for Magnetic and Gold Nanoparticles <u>M. Rouchota</u>, G. Loudos, E. Efthimiadou, G. C. Kordas, G. C. Kagadis</p> <p>0171 Phase-Sensitive Breast CT with Monochromatic Beam Towards the Clinical Trial <u>R. Longo</u>, F. Arfelli, R. Bellazzini, A. Brez, F. Brun, M.A. Cova, P. Delogu, F. Di Lillo, D. Dreossi, C. Fedon, B. Golosio, G. Mettievier, M. Minuti, P. Oliva, M. Pichera, L. Rigon, P. Russo, A. Sarno, G. Spandre, M. Tonutti, G. Tromba, F. Zanconati</p>	<p>Therapy in A Head and Neck Cancer Model <u>L. G. Marcu</u>, D. Marcu</p> <p>0201 Radiobiological Analysis for Evaluation of SIB Hypofractionated Treatment in H&N Disease <u>L. La Rosa</u>, A. Occhipinti, <u>A. Pedalino</u>, A. Rabito</p> <p>0202 NTCP Shift in Radiotherapy of Lung Cancer When Changing Either the Radiobiologic Models or the Photon Dose Calculation Algorithms <u>A. Chaikh</u>, J. Balosso</p> <p>0203 Quantification of the Impact of Electrons Transport Model on DVH Metrics and Radiobiological Indices for Lung Radiotherapy Plans <u>A. Chaikh</u>, J. Balosso</p> <p>0204 Effects of Low-Doses Ionizing Radiation on IL-4, IFN-γ and TGF-β Genes Expression in Spleen Lymphocytes of BALB/C MICE <u>M. T. Bahreyni Toossi</u>, Maryam Najafi Amiri, Mojtaba Sankian, Hosein Azimian, Sepideh Abdollahi Dehkordi, Sara Khademi</p> <p>0205 The Effect of Concurrent Radiation and Calcium in Two Cancer Cell Lines <u>J. Billberg</u>, S. Krog Frandsen, J. Gehl, F. Mahmood</p>
13:00-13:30	<p>Satellite Lecture (sponsored by GE Healthcare) Moderator: V. Tsapaki</p> <p>CT Dose Excellence Project: A Pan European approach towards protocols unification and dose optimization K. Katsari</p>		
13:00-14:00	Lunch Break		
14:00-15:00	<p>ISRRT Session: Radiographer's Input For Improving A Safety Culture For Medical Imaging and Therapeutic Procedures Moderators: D. Katsifarakis, E. Agadakos</p> <p>Truth or Dare: Achieving lower radiation doses in CT E. Agadakos</p> <p>Angiography – Neuro-interventional laboratory procedural safety issues K. Thanassoulas</p>	<p>Scientific Session: Imaging Moderators: D. Lurie, S. Gotsis</p> <p>Invited Talk Fast-field cycling MRI: A new tool for enhanced diagnosis L. Broche</p> <p>Oral Presentations</p> <p>0172 Fat Suppressed Proton Density Mri Increases the Sensitivity in the Detection of Cervical Cord</p>	<p>Scientific Session: Educational and Professional Matters Moderators: C. Caruana, G. Sanchez Merino</p> <p>Oral Presentations</p> <p>0206 Medical Physicists Certification Process and Examination in the Middle East I. Duhaini</p> <p>0207 Sustainability of the European Training and Education of the Medical Physics Expert in</p>

	<p>The impact of medical informatics on safety and quality assurance N. Delikanakis</p> <p>Image Guided Radiation Therapy: a safety practice A. Sarchosoglou</p>	<p>Multiple Sclerosis Lesions E. Karavasilis, A. Athanasakos, G. Velonakis, G. Argiropoulos, L.S. Poulou, P. Toulas, I. Gkerles, E. Xenos, P.E. Efstathopoulos, L.N. Kelekis</p> <p>0173 Structural Alterations in Patients with Schizophrenia: an Advanced Neuroimaging VBM Study A. Mentzelopoulos, E. Karavasilis, F. Christidi, E. Spilioti, L. Mantonakis, E Savvidou., P. E. Efstathopoulos, E. Anyfandi, E. Kattoulas, G. Nikiforidis, N. Smyrnis, L. N. Kelekis</p> <p>0174 Interactive Web Site And App for Early Magnetic Resonance Education L. G. Hanson</p> <p>0175 Numerical Simulation and Experimental Validation of Magnetic Nanoparticle Hyperthermia C. Papadopoulos, G.Loudos, E. Efthimiadou, G.Kordas, G.Kagadis</p>	<p>Diagnostic Radiology (EUTEMPE-RX) St.Christofides, V.Tsapaki, C. J. Caruana, H.Bosmans</p> <p>0208 Producing the Next Generation of Medical Physics Leaders in Europe: EUTEMPE-RX Module MPE01 'Development of the Profession and the Challenges for te MPE (D&IR) in Europe' C. J. Caruana, E. Vano</p> <p>0209 Implementation of the "Anthropomorphic Phantoms" Educational Module from the European EUTEMPE-RX Course Kr. Bliznakova, I. Buliev, Z. Bliznakov</p> <p>0210 New European Recommendations for MP Staffing Levels - Application to Portugal R. Figueira, E. Poli, J. Isidoro</p>
15:00-16:00	<p>Scientific Session: Radiation Oncology Moderators: J. Edmund, A. R. Figueira</p> <p>Invited Talk Fetal dose from radiation therapy M. Mazonakis</p> <p>Oral Presentations</p> <p>0160 Towards Breast Cancer Rotational Radiotherapy with Synchrotron Radiation F. Di Lillo, G. Mettievier, A. Sarno, P. Russo</p> <p>0161 TBI with a Translational Technique: A 15-Year Experience T. Koligliatis, P. Komi, E. Vasilakou, N. Pappas, A. Tsilimidou, K. Kouvati, B. Zambatis</p> <p>0162 An Analytical Model of Tumour Response to Radiotherapy to Investigate Biological Parameters of Chordoma Treated by X-Rays, Protons and Carbon Ions V. Kanellopoulos, N. F. Kirkby, R. Jena, M. Dosanjh, K. J. Kirkby</p> <p>0163 EPID-Based in Vivo Dosimetry for Complex VMAT Treatments Dose Verification in Clinical Routine S. Cilla, A. Ianiro, F. Deodato, G. Macchia, A. Fidanzio, L. Azario, V. Valentini, A. G. Morganti, A. Piermattei</p>	<p>Scientific Session: Imaging Moderators: K. Bacher, M. Sans-Merce</p> <p>Invited Talk Radiation-induced cataracts in staff engaged in interventional procedures (remote talk using go-to-meeting) M. Rehani</p> <p>Oral Presentations</p> <p>0176 Factors Affecting Exposure Parameters During Diagnostic Coronary Catheterization M. Habibi, N. Kollaros, P. Karyofyllis, I. Mastorakou, V. Voudris</p> <p>0177 Validation Measurements for the Retrospective Calculation of Eye Lens Doses of Interventional Cardiologists E. Carinou, P. Askounis, D. Berus, O.Ciraj-Bjelac, I.Clairand, P. Covens, J.Dabin, J.Domienik, J.Farah, J.Jurewicz, R. Padovani, L. Struelens</p> <p>0178 A MC Study on the Eye Lens Dose Distribution for Medical Staff in Interventional Radiology A. Zagorska, Kr.Bliznakova, A.Trianni, J.Vassileva</p> <p>0178b Comparative Patient Organ Dose Levels For Maxillofacial Examinations Performed With Different Radiological Facilities M. Sans-Merce, J. Damet, M.Becker</p>	

16:00-16:30	Coffee Break		
16:30-18:00	<p>ECMP Welcomes Italy: Current developments in hadrontherapy Moderators: M. Schwarz, L. Raffaele</p> <p>Advances in dosimetry for hadrontherapy L. Raffaele</p> <p>Organ motion management in scanning ion beams M. Ciocca</p> <p>Towards adaptive therapy with heavy charged particles M. Schwarz</p>	<p>Special Session Gate: A Monte Carlo Code For Imaging And Dosimetry In Medical Physics Moderators: M. Bardies, D. Visvikis</p> <p>Introduction to GATE M. Bardies</p> <p>Using GATE for imaging applications G. Loudos</p> <p>Using GATE for radiation therapy applications P. Papadimitroulas</p> <p>Using GATE for teaching Medical Physics - EduGATE M. Bardies</p> <p>On-going GATE developments and how to use and contribute to GATE D. Visvikis</p> <p>General discussion</p>	<p>Scientific Session: Radiation Protection in Radiotherapy Moderators: M.Mazonakis, A. Sarchosoglou</p> <p>Oral Presentations</p> <p>0211 A Multimodality Network Platform For Oncologic Solution F. Di Rosa, R. Costa, G. Politi, D. Sardina</p> <p>0212 Accuracy of the Small Field Dosimetry Using Acuros XB and AAA Dose Calculation Algorithms of Eclipse Treatment Planning System Within and Beyond Heterogeneous Media for Trubeam 2.0 Unit G. Codel, E. Serin, M.S.Cebe, H. Mabhouti, P. Pacaci, E. Sanli, M. Doyuran, E. Kucukmorkoc, A. Altinok, D. Canoglu, N. Kucuk, H. Acar, H. Caglar</p> <p>0213 Accuracy of the Small Field Dosimetry Using the Monte Carlo and Sequential Dose Calculation Algorithms of Multiplan Treatment Planning System Within and Beyond Heterogeneous Media for Cyberknife M6 Unit E. Serin, G. Codel, M.S. Cebe, H. Mabhouti, P. Pacaci, E. Sanli, M. Doyuran, E. Kucukmorkoc, A. Altinok, D. Canoglu, N. Kucuk, H. Acar, H. Caglar</p> <p>0214 Investigation of the Agfa High Dose Cassette for Quality Assurance in Radiotherapy I.A. Tsalafoutas, P. Birmbakos, K. Kourinou, P. Georgolopoulou</p> <p>0215 Cranio-Spinal Irradiation of Pediatric Patients Using Volumetric Modulated ARC Therapy C. Paraskevopoulou, M. Synodinou, G. Kollias, N. Yakoumakis, E. Koutsouveli, P. Karaiskos, C. Dardoufas</p> <p>0216 Correction Factors for the IBA Razor Diode for Output Factor Measurements in Perfexion GAMMA Knife System N. Yakoumakis, G. Kollias, C. Paraskevopoulou, E. Koutsouveli, P. Karaiskos</p> <p>0217 Monte Carlo Simulation of Different Source</p>

Configurations for a New Design of Rotating GAMMA Knife System

G. Mora, O. Chivani, J. Li, C.M. Ma

0218 Secondary Radiation Doses in IMRT Techniques
K. Polaczek-Grelak, J. Derus, A. Gilka,
A. Kawa-Iwanicka, M. Stefańczyk

0219 The Dosimetric Comparison of Truebeam and Cyberknife Treatment Planning Systems Dose Calculation Accuracy for Brain SRS Treatment on Randophantom

H. Mabhouti, E. Sanli, M.S. Cebe, G. Codel,
P. Pacaci, E. Serin, M. Doyuran, E. Kucukmorkoc,
A. Altinok, D. Canoglu, N. Kucuk, H. Acar, H. Caglar

20:00-24:00

EFOMP Council Dinner (by invitation only)