Thursday, September 1st 2016

TIME	HALL A Eugenides Foundation (Main Auditorium)	HALL B Metropolitan Hotel (Aegean Sea Ballroom)	HALL C Eugenides Foundation (Conference Hall)
09:00-10:30	**Scientific Session : Radiation Oncology Physics and Technology** Moderators: **P. Kukolowicz, K. Theodorou** **Oral Presentations** 0001 Maxima – A Horizon2020 Project For Increasing The Research And Innovation Capacity of EU Universities In The Field Of Breast Cancer Modelling **K.Bliznakova, H. Bosmans, G. Mettivier, P.Russo** 0002 Patient Daily Treatment Verification Using MIC Log Files **D. Defoor, N. Papanikolaou, S. Stathakis** 0003 Evaluation Of Two Detector Arrays For VMAT Pre-Treatment Quality Assurance **S. Russo, A. Bruschi, M. Esposito, S. Pini, A. Ghirelli, S. Mazzocchi, P. Bastiani, G. Zatelli** 0004 DIBH Tecnique Guided By An Optical System In Left Breast Irradiation **S. Russo, F. Rossi, L. Paoletti, R. Barca, S. Fondelli, P. Alpi, B. Grilli, M. Esposito, S. Pini, A. Ghirelli, L. Cunti, L. Isgrò, P. Bastiani** 0005 Dependence Of Tissue Inhomogeneity Correction Factors On Nominal Photon Beam Energy **M. Akhtaruzzaman, P. Kukolowicz** 0006 Weight Loss Influence In Head And Neck VMAT Treatments **V.Puchades-Puchades, A. Serna-Berná, J.F. Mata-Colodro, D. Ramos-Amores** 0007 DVH Comparison Between Forward Imrt, Inverse IMRT & RapidArc® For Patients With Left Sided Breast Cancer After Lumpectomy **P. Zaverdinos, Aik. Konidari, S. Diamantopoulos, I. Kantemiris, J.C.A. Dimopoulos** 0008 Time-Dependent Dose-Response Relation For Absence Of Vaginal Elasticity After Gynecological Radiation Therapy **E. Alevronta, E. Avall-Lundqvist, M. al-Abany, T. Nyberg, H. Lind, A.-C.Waldenstrom, C. Olsson, G. Dunberger, K. Bergmark, G. Steineck, B. K. Lind**	**Refresher Course: MRI: Quality Assurance** Moderators: **I. Tsougos, A. Webb** Basic quality control in MRI **T.G. Maris** High Field MRI: What Are the Special Safety Risks at Higher Fields? **P. de Bruin** Quality assurance in quantitative MRI **I. Seimenis** Quality assurance in MRI for radiotherapy planning **N. Papanikolaou**	**Scientific Session: Brachytherapy and Radionuclide Therapy** Moderators: **M. Bardies, G. Borasi** **Oral Presentations** 0033 INTRA-VOXEL Heterogeneity And Its Effect On 3D Brachytherapy Dose Distributions **G. Yegin, I. Kalp** 0034 Clinical Application Of MOSkin Dosimeters To Rectal Wall In Vivo Doismetry In Gynecological And Prostate HDR Brachytherapy **M. Carrara, D. Mazzeo, A. Romanyukha, C. Tenconi, A. Cerrotta, M. Borroni, D. Cutajar, M. Petasecca, M. Lerch, J. Bucci, C. Fallai, G. Gambarini, A. Rosenfeld, E. Pignoli** 0035 On The Dosimetric Effect Of Heterogeneities And Finite Patient Dimensions On 60Co HDR Brachytherapy **K. Zourari, I. Fotina, E. Pantelis, P. Papagiannis** 0036 On The Use Of Time Resolved Dose Rate Distributions In Brachytherapy **V. Peppa, E. Pappas, P. Karaiskos, P. Papagiannis** 0037 Testing MBDCA Performance In 192Ir HDR Brachytherapy For Lip Carcinoma **V. Peppa, E. Pantelis, T.Major, I. Skampardoni, P. Papagiannis** 0038 Statistical Bayesian Analysis Of The Brachytherapy Source Position **A. Serna, P. Parrado** 0039 Development of a Three Dimensional Printed MRI Compatible Template For High Dose Rate Prostate Brachytherapy Implants **S. Diamantopoulos, P. Zaverdinos** 0040 Cost-Effect And Ethical Reasoning In Radionuclide Therapy Dosimetry Under The New EU BSS **J.A.M. Santos** 0041 Radioiodine Therapy After Recombinant Human TSH Administration Or Hormone Withdrawal: Is

	0009 Dosimetric Characterization Of A Commercial 2-D Scintillation Detector For Quality Assurance Tests In Scanned Proton And Carbon ION Beams **S. Russo, D. Boi, A. Mirandola, S. Molinelli, A. Mairani, E. Mastella, G. Magro, S. Giordanengo, M. Ciocca**		There A Difference in I-131 Effective Half-Life? **K. Perisinakis, C.Donas, A. Dimitraki, J. Damilakis**
10:30-11:00	Coffee Break		
11:00-12:00	**Scientific Session: Radiation Oncology** Moderator: **L. Strigari** Invited Talk Small scale radiopharmaceutical dosimetry **M. Bardies** **Oral Presentations** 0010 Decission Of Treatment With Iodine-131 Of One Patient Previously Irradiated With Radiotherapy **J. M. Jimenez, R. Garcia, A. seguro, G. Ruiz** 0011 Previsional Dosimetry in 99mTc-MAA SPECT-TC Images For Liver Radioembolization With 90y Microspheres: Influence of Iterative and FBP Reconstruction Algorithms On Dose Calculation **E. Richetta, L. Radici, M. Pasquino, C. Cutaia, S. Valzano, M. Menga, R.E. Pellerito, M. Stasi** 0012 Dosimetry Of Lesions In Radioiodine Therapy Of Metastatic Throid Cancer: SPECT-TC Calibration, Verification and Preliminary Patient Results **E. Richetta, L. Radici, C. Cutaia, S. Valzano, G. Lo Moro, M. Pasquino, R.E. Pellerito, M. Stasi** 0013 Optimization Of Activity And Absorbed Doses Calculation To Target/Tumor And Normal Liver Volumes In Patients Submitted To Yttrium-90 Radioembolization With Glass Microspheres **P. Ferreira, R. Parafita, A. Canudo, C. Oliveira, L. Rosa, P. Girão, Durval C. Costa**	**Refresher Course: MRI: Safety** Moderators: **N.Papanikolaou, P. de Bruin** Risks related to static magnetic fields **L. Hanson** Risks related to gradient fields **I. Tsougos** Risks related to RF fields **A. Webb** European legal framework for safety and quality assurance in MRI **A. Torresin** Discussion	**Scientific Session: Radiation Protection in Diagnostic Radiology** Moderators: **E. Efstathopoulos, T. de Bondt** **Oral Presentations** 0042 Does Clinical Indication Play A Role In Ct Radiation Dose In Pediatric Patients? **V. Tsapaki, S. Triantopoulou** 0043 Head CBCT Vs Head Msct Imaging; Comparing Organ Doses And Radiation Risks For A Cohort Of Orthognathic Patients **A. Stratis, G. Zhang, R. Jacobs, R. Bogaerts, C. Politis, E. Shaheen, H. Bosmans** 0044 Low Contrast Quality Assesment In CT: Human And Model Observer Comparison **M. Biondi, A. La Penna, E. Vanzi, L. N. Mazzoni, G. De Otto, G. M. Belmonte, E. Foderà, R. Martini, G. Imbriaco, F. S. Carbone, A. Guasti, L. Volterrani, F. Banci Buonamic** 0045 Dental Hybrid Cone Beam CT Effective And Organ Doses **A. Loria, C.R.Gigliotti, M.Branchini, F. De Cobelli, M. Del Maschio, A. del Vecchio** 0046 Diagnostic Reference Levels In Dutch Clinical Practice **H. Bijwaard, D. Valk, I. de Waard-Schalkx** 0047 Multi Hospital Experiences In The Use Of RDIM Softwares to Optimize Radiological Procedures In Computed Tomography, Mammography and Interventional Radiology **S. Pini, S. Mazzocchi, A. Ghirelli, E. Rigacci, M. Esposito, S. Russo, G. Zatelli**
12:00-13:00	**Scientific Session: Radiation Protection in Radiation Oncology** Moderators: **K. Kappas, M. Brambilla** **Oral Presentations**		**Scientific Session: Radiation Protection in Diagnostic Radiology** Moderator: **V. Tsapaki** **Oral Presentations**

0014 Skin Dose Evaluation For 3DCRT And Vmat Breast Cancer Techniques
A.G. Dias, D. Pinto, F. Borges, J. Lencart

0015 Prostate SBRT: The Use Of ERB And Mosfet In Vivo Dosimetry Feasibility
A.G. Dias, L.T. Cunha, A. Oliveira, J.A.M. Santos, J. Lencart

0016 Characterization Of The Exradin A26 Microchamber For Small Field Dosimetry
M. Pasquino, C. Cutaia, L. Radici, E. Gino, M. Stasi

0017 Correlation Between Bladder Volume And Bowel Radiation Dose For Rectum Cancer Patients
L. Andersson, C. F. Behrens, D. Sjostrom

0018 A New Robust Statistical Method For Treatment Planning Systems Validation Using Experimental Designs
S. Dufreneix, K. Briand, C. Di Bartolo, C. Legrand, M. Bremaud, J. Mesgouez, T. Tiplica, D. Autret

0019 Carbon And Oxigen Minibeam Radiation Therapy: A Monte Carlo Dosimetry Study
W. Gonzalez, C .Peucelle, Y. Prezado

0048 Staff Doses In Fluoroscopically Guided Invasive Diagnostic and Interventional Urology Procedures
D. Ivanova, A. Zagorska, S. Avramova-Cholakova, K. Bliznakova, Ts. Deyanova, R. Dobrikov, J. Hristova-Popova, D. Kostova-Lefterova

0049 Diagnostic Reference Levels Of Intraoral Dental Radiography In The Public Hospitals Of Cyprus
S. Christofides, E. Pitri, M. Lampaskis, C. Papaefstathiou

0050 Determination Of Size Specific Conversion Factors To Effective Dose Using TLD Dosimeters In Anthropomorphic Phantoms
S. Tanabasidis, S. Kordolaimi, E.Efstathopoulos, E. Carinou, I. Seimenis

0051 A Regional Solution For Patient Radiological Dose Management
E.A. Garcia-Angosto, A. Serna, A.J. Garcia-Sanchez, F. Garcia-Sanchez, D.Ramos

0052 Understanding Workflow In A Radiology Department By Creative Use Of A Dose-Management Software Solution
T. De Bondt, F. Zanca, De Roeck J., L. Brouhon, M. Geldof, F. Deferme, P. Parizel

0053 Population Dose And Frequency Of Procedures In Medical Exposure In Sudan
Nada A. Ahmed, S.M. Abubaker, I.I. Suliman

13:00-14:00 Lunch Break

14:00-15:00

Scientific Session: Radiation Oncology
Moderators: S. Nikoletopoulos, L. Strigari

Invited Talk
Individualization in radiotherapy: where we are and where to go?
P. Kukolowicz

Oral Presentations

0021 What Dose Distribution Metrics In The PTV is Close to The Generalized Equivalent Uniform Dose?
M. Mrozowska, P. Kukołowicz

0022 A New Optical System For Quality Control And Patients Positioning In Radiation Therapy
P. Kukołowicz, A.Walewska, A. Smigielski, M. Dyrek

Scientific Session: Imaging
Moderators: P. Prassopoulos, H. Bosmans

Invited Talk
Dose optimization in cardiac CT
M. Kalra

Oral Presentations

0030 In Vivo Dosimetry For Head CT Examinations In Paediatric Patients
I. Stathopoulos, A. Ploussi, V. Syrgiamiotis, T. Makri, C. Hatzigiorgi, E. Carinou, G. Sakellaropoulos, G. S. Panayiotakis, E. P. Efstathopoulos

0031 Evaluation Of Model Based Iterative Reconstruction IMR In Computed Tomography
N. Paruccini, C. Pasquali, R. Villa, C. Spadavecchia, A. Baglivi, A. Radice, A. Crespi

Scientific Session: Miscellaneous
Moderator: L Hanson

Oral Presentations

0054 The Effects Of Electromagnetic Fields On Human Health
I. Duhaini

0055 The Medical Physicist And Advanced Technology In The Field Of Science And Medicine
I. Duhaini

0056 Bio-Acoustic Levitational Assembly Of Heterocellular 3D Constructs: 3D Model Establishment For Cells Radiation Effect Studies In 3D Microenvironment
C. Bouyer, P. Chen, T. J.N. Nieland, U. Demirci, F. Padilla

	0023 New Variance Reduction Techniques For MCNP6 For External Radiation Therapy Calculations I. Papp, G. Stelczer, C. Pesznyak, M. Szieberth, S. Czifrus	0032 Paediatric Multi Detector Computed Tomography RadiationDoses In A Dedicated Paediatric Hospital In Greece D. Akrividou, G. Douskas, A. Stratigopoulou, N. Evlogias, V. Tsapaki	0057 The Impact Of Temperature Dependent Electrical Conductivity In Radiofrequency Ablation Treatment Planning I. Saroglou, T. Samaras 0058 Minimally Invasive Ingestible Device To Perform Anti-Bacterial Phototherapy In The Stomach G. Romano, G. Tortora, S. Calusi, B. Orsini, A. Gnerucci, F. Fusi 0059 Nexodose[tm], An Useful Tool To Monitor And Optimize CT Exposures M. Sutto, A. Maldera, P. E. Colombo, A. Torresin
15:00-16:00	**Scientific Session: Radiation Oncology Physics, QA and Technology** Moderators: P. Kukolowicz, K. Theodorou **Oral Presentations** 0024 The Repeatability Of The Scanner In Radiochromic Film Dosimetry M. Ignasi, S. Zeljko, H. Rihard, J. Aljasa, C. Bozidar 0025 Dosimetry For Low Energy Protons With Ionization Chambers And EBT3 Films In The Bragg Peak Region M.C. Battaglia, D. Schardt, J. Espino, M. Gallardo, M.A. Cortés-Giraldo, J.M. Quesada, A.M. Lallena, H. Miras, D. Guirado 0026 A Simple PMMA Phantom For Daily QA Energy Checks In Proton Therapy N. Bizzocchi, F. Fracchiolla, M. Schwarz 0027 Evolution Of FreeBreathing Using The SDX System in 4D-CT With The Siemens Somatom Scanner For Stereotaxic Lung Treatment With VMAT SBRT (X6 FFF) D. Julian, P. A. Daviau 0028 Preliminary Investigations On The Use Of MRI For Decision Making In Adaptive Proton Radiotherapy For Head And Neck Cancer F. Giesen, L. Bondar, B. Macq 0029 Primo Software As A Tool For Monte Carlo Simulations Of Intensity Modulated Radiotherapy: A Feasibility Study A. Esposito ,S. Silva, L. T. Cunha, A. G.Dias, D. Pimparel, S. Gutierrez, S. Dias, J. Lencart, J. A. M. Santos	**Presentation Of The Medal Award** J. Damilakis **Lecture** High Intensity Focused Ultrasound: physical principles and clinical applications G. Borasi	**Scientific Session: Diagnostic Radiology Physics and Technology** Moderators: S. Tabakov, E. Koutsouveli **Oral Presentations** 0060 Small Field Relative Dosimetry Using A Silicon Diode Of New Generation C. Talamonti, M.D. Falco, A. Bartoli, S. Russo, C. Iervolino, E. Menghi, E. Moretti, E. Mones, C. Fiandra, M. Casale, G. Pastore, C. Oliviero, E. DiCastro, S. Luxardo, A. Vaiano, G.H. Raza, G. Borzi, C. Carbonini, R. Consorti, M.C. Pressello, C. Gasperi, L. Barone Tonghi, F. Palleri, C. Marino, V. Ardu, S. Linsalata, S. Riccardi, F. Vittorini, L. Spiazzi, F. Rosica, C. Iervolino, E. Villaggi, P. Mancosu 0061 Comparison Of Two Psychometric Functions In Analyzing 4-AFC Detection Results Using A Task-Based Structured Phantom For Digital Mammography K. TriWigati, L. Cockmartin, N.W. Marshall, D. S. Soejoko, H. Bosmans 0062 Low Contrast Detectability Assessment With Homemade Software And Dedicated Phantom: Evaluation Of Results And Comparison With CDMAM Analysis R. Villa, N. Paruccini, C. Pasquali, C. Spadavecchia, A. Baglivi, A. Radice, A. Cresp 0063 A Statistical Method For Low-Contrast Detectability Analysis In Angiography Systems A. Radice, N. Paruccini, C. Spadavecchia, R. Villa, A. Baglivi, A. Crespi 0064 Comparison Among Iterative Reconstruction Techniques For Phase-Sensitive Breast Tomography L. Fardin, P. Oliva, B. Golosio, F. Brun, L. Rigon,

			R. Longo **0065** Automatised Detection Of Microcalcification In Mammography **A. Fanizzi, S. Tangaro, R. Bellotti, T.M.A. Basile, U. Bottigli, L. Losurdo, R. Massafra, P. Tamborra, V. Didonna, D. La Forgia** **0066** Further Results On The Evaluation Of The Performance Of A Digital Breast Tomosynthesis System In The Clinical Environment **A. Rodríguez-Ruiz, M. Castillo, J. Garayoa, M. Chevalier**
16:00-16:30	Coffee Break		
16:00-16:30		**Invited Talk** WW1. Radiology on the Balkan Front **G. Livadas**	
16:30-18:00	**ECMP Welcomes Italy: The Italian Group Of Dosimetry In Radiometabolic Therapy: State Of The Art And Future Prospective** Moderators: **M. Stasi, C. Antypas, R. Matheoud** The individualized dosimetry in the radioembolization of hepatocarcinoma with 90Y-microspheres **C. Chiesa** Bone metastases dosimetry for 223Ra-dichloride: an Italian multicenter study **M. Pacilio, S. Camillo Forlanini** The advantage of combined treatments: alpha-emitters radiopharmaceutical and external beam radio-therapy **L. Strigari**	**Joint EFOMP-ESR Session** **A Multi-Stakeholder Approach To Medical Radiation Protection** Moderators: **P. Sharp, P. Prassopoulos** An overview of ESR experience, with a focus on EuroSafe Imaging **G. Frija** An overview of EFOMP experience, with a focus on EuroSafe Imaging **J. Damilakis** EURAMED: European Alliance for Medical Radiation Protection Research **L. Donoso** Structured dose reporting **P. Mildenberger** Towards benchmarking paediatric cranial CT protocols using a dose tracking software system: A multicenter study **T. de Bondt**	**Scientific Session: Miscellaneous** Moderators: **A. Torresin, M. Kallergi** **Oral Presentations** **0067** Effect Of PMMA Shield On Photoneutron Dose Equivalent In High Energy Medical Linacs **H. D. Seyed Mehdi** **0068** Automated Breast Ultrasound For The Detection And Reconstruction Of The Breast Ductal Pattern **M. Kallergi, M. S. Haynes, V. Bizini, P. A. Sheth, L. D. Eshraghi, S. M. Love** **0069** An Automatic Method Improving The Reliability Of Shear Wave Elastography In The Diagnosis Of Chronic Liver Disease **I. Gatos, S. Tsantis, P. S. Zoumpoulis, I. Theotokas, G. C. Kagadis** **0070** Development And Optimization Of Magnetic Nanoparticles For Targeted Therapy **M. Patitsa, A. Tziouni, K. Kordatos, D.A. Verganelakis, A. Klinakis** **0071** Air Density Dependence Of The PTW 34013 Ionization Chamber For Soft X-Ray **J. Torres del Río, C. Forastero, A.M. Tornero-López, J.M. de la Vega, D. Guirado, J. Pérez-Calatayud, A. M. Lallena** **0072** jQC-PET, AN ImageJ Macro For The Standardization Of PET/CT Quality Control

			J. Cortes-Rodicio, G. Sanchez-Merino, R. Lope-Lope, T. Martin-Gonzalez, J. Ruiz-Pomar, M.A. Garcia-Fidalgo 0073 A New User Friendly Visual Environment For Breast MRI Data Analysis A. Danelakis, P. Toulas, T. Theoharis, D. A. Verganelakis 0074 MRI-Only Brain Radiotherapy Verification Using Cone Beam Computed Tomography S. Aouadi, R.W. Hammoud, A. Vasic, S. Paloor, T. Torfeh, P. Petric, N. Al-Hammadi 0075 Creating A Tissue Mimicking Phantom Appropriate For Relaxometry, Diffusion Imaging And Ultrasound Elastography Z.G. Portakal, J.W. Phillips, S.M. Shermer, C.E. Richards, E. Spezi, L.J. Garcia, T. Perrett, D.G. Lewis, N. Tuncel
19:30-21:00	**Opening Ceremony** **Welcome addresses** **Prof. J. Damilakis**, ECMP 2016 President **Dr V. Tsapaki,** ECMP 2016 Vice President **Dr S. Tabakov**, IOMP President Presentation of the Galileo Galilei Award **P. Russo** **Cultural Program** *(Greek dances from Crete Island & music performance from the "Underground Youth Orchestra")*		
21:00	**Welcome Reception**		