

**International Conference on Medical Physics and Engineering
PHYSICS AND ENGINEERING FOR HEALTH AND WELLNESS OF SOCIETY
21-24.09.2011 Poznań, Poland**

CONFERENCE TIME-TABLE

Wednesday, September 21, 2011	
17:00 – 19:00	<i>Registration</i>
19:00 – 21:00	<i>Welcome Party</i>
Thursday, September 22, 2011	
9:30 – 9:45	<i>Conference opening</i>
9:45 – 11:15	Session 1 – Invited lectures Chairman – Ryszard Krzyminiewski
9:45 – 10:15	1.1 CLINICAL MONTE CARLO BASED TREATMENT PLANNING - NEW CONCEPTS AND CONSIDERATIONS Joanna Cygler
10:15 – 10:45	1.2 COLLATERAL EFFECTS IN MODERN RADIOTHERAPY: NEUTRONS RISK F. Sanchez-Doblado
10:45 – 11:15	1.3 PHYSICAL CHARACTERIZATION OF HEAVY-ION THERAPY BEAMS Dieter Schardt
11:15 – 11:45	<i>Coffee break</i>
11:45 – 13:15	Session 2 Chairman – Julian Malicki
11:45 – 12:00	2.1 RADIOPHARMACEUTICALS PRODUCTION AND RESEARCH CENTRE AT THE UNIVERSITY OF WARSAW <u>J. Jastrzębski</u> , J. Choiński, D. Hechner, K. Kilian, P. Napiorkowski, I. Mazur
12:00 – 12:15	2.2 DIAGNOSTIC ASPECTS OF NMR RELAXATION MEASUREMENTS <u>L. Skórski</u> , D. Wierzuchowska, B. Blicharska
12:15 – 12:30	2.3 CORRELATIONS BETWEEN HIGH SIGNAL RESOLUTION PULSOXIMETER PARAMETERS AND ARTERY STIFFNESS OF PATIENTS WITH ATHEROSCLEROSIS R. Krzyminiewski, R. Stepien, <u>B. Dobosz</u> , T. Kubiak
12:30 – 12:45	2.4 USG APPLICATION FOR TONGUE AND JAW MOVEMENT REGISTRATION M. Sobotka, M. Lewandowski, <u>A. Grzanka</u>

12:45 – 13:00	2.5 APPLICATION A NEW EYE LENS DOSEMETER FOR MEDICAL STAFF IN THE INTERVENTIONAL RADIOLOGY PROCEDURES <u>R. Kopeć</u> , M. Budzanowski
13:00 – 13:15	2.6 Andree Dutreix
13:15 – 14:45	<i>Lunch</i>
14:45 – 16:15	Session 3 Chairman – Natalia Golnik
14:45 – 15:00	3.1 THE INFLUENCE OF CARBON ALLOTROPES ON CHOLESTEROL LODGMENT - COMPUTER SIMULATION <u>Z. Gburski</u> , K. Górny, P. Raczyński, A. Dawid
15:00 – 15:15	3.2 THE EFFECT OF THE EFFECTIVENESS OF THYROID SHIELD ON RADIATION DOSE IN CONE BEAM COMPUTED TOMOGRAPHY OF IMPLANT RADIOGRAPHY <u>F. Akbari</u> , M.T. Bahreyni Toossi, H. Hoseini Zarch
15:15 – 15:30	3.3 VARIATIONS OF SOUND IN HYPOTHYROIDISM BY MEANS OF VOICE ANALYSIS <u>N. Mohsenian</u> , M.H. Bahreini, Sh. Bayani, Sh. Bonakdaran, S. Ebrahimzade, M.B. Alizade
15:30 – 15:45	3.4 CORRECTION OF CT METALLIC HIP PROSTHESES ARTIFACTS AND ITS IMPACT ON THE ACCURACY OF CALCULATED DOSE IN X-RAY RADIOTHERAPY OF THE PROSTATE <u>Ł. Matulewicz</u> , K. Ślosarek
15:45 – 16:00	3.5 THE DIAGNOSTICS OF THE HUMAN BY USING THE SPECTRUM-SPECIFIC IMPEDANCE IN THE RANGE OF KHZ <u>K. Michalak</u>
16:00 – 16:15	3.6 NATIONAL CENTRE FOR HADRON RADIOTHERAPY IN POLAND –BRONOWICE CYCLOTRON CENTRE <u>P. Olko</u> , M. Jeżabek
16:15 – 16:30	<i>Coffee break</i>
16:30 – 17:30	Poster session I
17:30 – 19:30	General Meeting of Polish Society of Medical Physics
Friday, September 23, 2011	
9:00 – 10:30	Session 4 – Invited lectures Chairman – Marta Wasilewska-Radwańska
9:00 – 9:30	4.1 TOWARDS RADIOTHERAPY APPLICATION OF LASER DRIVEN PARTICLE BEAMS Joerg Pawelke
9:30 – 10:00	4.2 BIOLOGICAL DOSIMETRY AND RADIATION ACCIDENTS IN RADIOTHERAPY Andrzej Wojcik

10:00 – 10:30	4.3 EVOLVING TRENDS IN ACADEMIC AND CLINICAL EDUCATION OF MEDICAL PHYSICISTS Ervin Podgorsak
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:00	Session 5 Chairman – Joanna Cygler
11:00 – 11:15	5.1 OCCUPATIONAL DOSES IN POLAND - BASED ON RESULTS FROM LADIS DOSIMETRY SERVICE AT IFJ PAN, KRAKÓW <u>M. Budzanowski</u> , R. Kopeć, E. Broda, A. Chrul, B. Dzieża, M. Kruk, A. Nowak, A. Pajor, A. Sas-Bieniarz, K. Włodek, A. Kiszkurno- Mazurek
11:15 – 11:30	5.2 GEOMETRICAL UNCERTAINTIES IN SPINAL CORD AND ITS IMPACT ON THE DOSES RECEIVED IN IT DURING HEAD AND NECK HELICAL TOMOTHERAPY <u>T. Piotrowski</u> , J. Kazmierska, A. Ryczkowski, M. Skorska, A. Jodda, B. Bak
11:30 – 11:45	5.3 CLINICAL APPROBATION OF A NOVEL DIGITAL QUALITY ASSURANCE METHOD IN DIGITAL RADIOGRAPHY <u>L. Bumbure</u> , Y. Dehtyar, T. Kirsanova, L. Shuvalova
11:45 – 12:00	5.4 FIRST PROTON EYE CANCER RADIOTHERAPY AT IFJ PAN PROTON THERAPY FACILITY <u>J. Swakon</u> , B. Romanowska-Dixon, P. Olko, D. Adamczyk, T. Cywicka-Jakiel, J. Dabrowska, B. Dulny, L. Grzanka, K. Gugula, T. Horwacik, T. Kajdrowicz, B. Michalec, T. Nowak, A. Pogrzebielski, M. Ptaszkiewicz, U. Sowa, L. Stolarczyk, J. Sulikowski, M.P.R. Waligorski
12:00 – 13:00	Session 6 – Teleconference Chairman – Krzysztof Zaremba
12:00 – 12:20	Film
13:00 – 14:30	<i>Lunch</i>
14:30 – 15:45	Session 7 Chairman – Paweł Olko
14:30 – 14:45	7.1 STROBOSCOPE EFFECTS IN THE BEAM DELIVERY SYSTEM AT THE IFJ PAN OCULAR PROTON FACILITY <u>T. Kajdrowicz</u> , T. Nowak, P. Olko, K. Guguła, B. Lipka
14:45 – 15:00	7.2 NEW KLEIN-NISHINA BASED SCATTER CORRECTION APPROACH FOR NUCLEAR MEDICINE IMAGES <u>Sh.Oloomi</u> , M.Hajizadeh, F.Hashemiyani Nezhad, H.Rajabi, M.Askari
15:00 – 15:15	7.3 DOSE DISTRIBUTION IN CARDIAC CATHETERIZATION LABORATORY (CATHLAB). MONTE CARLO CALCULATIONS VS TLD MEASUREMENTS <u>K. Kisielewicz</u> , A. Truszkiewicz, S. Wach, M. Wasilewska – Radwańska, A. Śladowska, A. Cepiga, A. Dziecichowicz, A. Jankowska, M.P.R. Waligórski, E. Byrski
15:15 – 15:30	7.4 OVERSAMPLING IN THE COMPUTED TOMOGRAPHY MEASUREMENTS AS A METHOD OF SPATIAL RESOLUTION INCREMENT <u>G. Tatoń</u> , E. Rokita, T. Rok, F. Beckmann

15:30 – 15:45	7.5 DEVELOPMENT OF A DYNAMIC HEART PHANTOM FOR SPECT MYOCARDIAL PERFUSION IMAGING T. Fiutowski, F. Sikora, A. Rosiek, <u>M. Wasilewska-Radwańska</u> , A. Stępień, J. Pawlus, Y. Parpottas, S. Christofides, O. Demetriadou, Ch. Yiannakkaras, I. Chrysanthou, D. Kaolis
15:45 – 16:15	<i>Coffee break</i>
16:15 – 17:00	Session 8 Chairman – Francisco Sanchez-Doblado
16:15 – 16:30	8.1 A STUDY ON THE COMMUNITY EFFECTS OF AN OUTPATIENT PET/CT FACILITY F. Cutanda Henríquez, <u>S. Vargas Castrillón</u>
16:30 – 16:45	8.2 THE EFFECT OF RESOLUTION MODE ON ORGAN DOSE IN MAXILLOFACIAL IMAGING WITH CONE BEAM COMPUTED TOMOGRAPHY <u>M.T. Bahreyni Toossi</u> , F. Akbari, H. Hoseini Zarch
16:45 – 17:00	8.3 COMPARISON OF DOSE DISTRIBUTIONS OF THE PROTON AND OXYGEN ION BEAMS IN TUMOR THERAPY P. Szaflik
17:00 – 18:00	Poster session II
19:30	<i>Conference Banquet</i>
Saturday, September 24, 2011	
9:00 – 10:30	Session 9 Chairman – Eugeniusz Rokita
9:00 – 9:15	9.1 CORRELATION BETWEEN RADIATION DOSE OF INTERVENTIONAL RADIOLOGISTS WITH DOSE AREA PRODUCT <u>M. Mehrpouyan</u> , M.T. Bahreyni Toossi, R. Fardid, H. Nademi
9:15 – 9:30	9.2 NOVEL CARBON – MAGNETITE BIOCOMPOSITES <u>B. Kalska-Szostko</u> , M. Rogowska
9:30 – 9:45	9.3 CALCULATION OF COLLIMATOR SEPTAL AND BODY PENETRATION WITH SIMULATION AND ASSESSMENT OF ITS IMPACT ON SPATIAL AND CONTRAST RESOLUTION OF IMAGE H. Baghani, A. Kamali Asl, <u>M. Khazae Moghaddam</u>
9:45 – 10:00	9.4 BRIDGING TELEMEDICAL CENTERS AND HOSPITALS ON THE EXAMPLE OF THE WIELKOPOLSKA CENTER OF TELEMEDICINE T. Biały, <u>M. Bogdański</u> , J. Brzeziński, J. Kobusiński, M. Kosiedowski, C. Mazurek, M. Stroiński, J. Węglarz
10:00 – 10:15	9.5 MAGNETIC RESONANCE SPECTROSCOPY OF THE BRAIN IN CLINICAL ROUTINE R. Mirek

10:15 – 10:30	9.6 WHY SHOULD TOMOTHERAPY ADD A COMPOSITE DOSE MODULE IN THE TREATMENT PLANNING SOFTWARE? <u>M. Skórska</u> , A. Ryczkowski, T. Piotrowski
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:00	Session 10 – Young Scientists Session Chairman – Bahreyni Toossi Mohammad Taghi
11:00 – 11:10	10.1 GLOBAL AND LOCAL KV AND CBCT MATCH RESULTS EVALUATION FOR PROSTATE PATIENTS <u>M. Adamczyk</u> , T. Piotrowski, E. Adamiak
11:10 – 11:20	10.2 DETERMINATION OF ENERGY SPECTRA OF THERAPEUTIC X-RAY BEAMS FROM MEDICAL LINACS FOR VARIOUS IRRADIATION CONDITIONS <u>M. Bakoniak</u> , A. Konefal
11:20 – 11:30	10.3 THE OSMOTICALLY INDUCED PORE FORMATION IN LIPID MEMBRANES MEASURED BY STOPPED FLOW METHOD <u>K. Cyprych</u> , M. Langner
11:30 – 11:40	
11:40: - 11:50	10.5 DOES ANTIRETROVIRAL THERAPY OF PREGNANT FEMALES INFLUENCE OPTICAL DENSITY OF BONES OF THEIR OFFSPRING? <u>K. Maciejewska</u> , K. Michalik, M. Kaszuba, H. Trzeciak, Z. Drzazga
11:50 – 12:00	10.6 ASSESSMENT OF UNDESIRABLE DOSE TO EYE-MELANOMA PATIENTS IN THE COURSE OF PROTON RADIOTHERAPY <u>L. Stolarczyk</u> , T. Cywicka-Jakiel, T. Horwacik, A. Magiera, P. Olko, J. Swakoń
12:00 – 12:15	<i>Conference closing</i>
12:15 – 13:30	<i>Lunch</i>
	<i>Greater Poland Cancer Centre Visit Tour</i>