

	13 June
	<u>Plenary session</u> Chairs: Talivaldis Freivalds, Alexandra Csapai
9:00-9:30	ADVANCED SEMICONDUCTOR DOSIMETRY IN RADIATION THERAPY <u>Invited lecture</u> Anatoly B. Rozenfeld (Remotely)
9:30-10:00	WEDDING MPI AND MFH: A THERANOSTIC PAIR ALMOST MADE IN HEAVEN Oliver Buchholz, Kulthisa Sajjamark, Jochen Franke, Huimin Wei, Christian Munkel, Dominik von Elverfeldt, Thorsten Buzug, Sébastien Bär, <u>Ulrich G. Hofmann</u> (Remotely)
10:00-10:30	EDUCATION AND CERTIFICATION OF MEDICAL PHYSICISTS: AN OVERVIEW, RECENT DEVELOPMENTS AND FUTURE INNOVATION. <u>Invited lecture</u> Carmel J. Caruana, Malta
10:30-11:00	GEAR-WHEEL, CHIRAL AND ANTICHIRALIC TRAFFIC OF THE DAMAGED DNA IN CELL NUCLEUS <u>Invited lecture</u> <u>J. Erenpreisa</u> , K. Salmina, NM Vainshelbaum, F. Rumnieks, T. Freivalds
11:00-11:30	COFFEE BREAK
	<u>Plenary session</u> Chairs: Carmel J. Caruana, Juha Latikka
11:30-12:00	HIERARCHICAL INTEGRATION OF ELECTROSPINNING AND 3D/4D PRINTING PROCESS FOR BIOMEDICAL APPLICATIONS Ashok Vaseashta
12:00-12:20	EFFECT OF THE DIELECTROPHORETIC FORCES ON THE SELECTIVE BACTERIAL GROWTH IN 3D PRINTED MICROFLUIDIC BIOREACTORS <u>Alexandra Csapai</u> , Dan A. Toc, Nicoleta Tosa, Septimiu Tripon, Alexandra Ciorîță, Razvan M. Mihaila, B. Mociran, Carmen Costache, Catalin O. Popa
12:20-12:50	RGB LASER-ILLUMINATED SPECTRAL IMAGING: APPLICATIONS IN DERMATOLOGY AND ENDOSCOPY <u>Janis Spigulis</u> , Ilze Oshina, Uldis Rubins, Edgars Kviesis-Kipge
12:50-13:10	SYNTHESIS OF PHOTO-ACTIVE FULLERENE-BASED BIOPOLYMERS TO COMBAT MICROBIAL BIOFILMS Gabrielė Saulėnienė, Monika Kirsnyte, Arūnas Stirkė, Vitalija Jasulaitiene, <u>Wanessa Melo</u>
13:10-13:30	A VIRTUAL REALITY APPLICATION FOR ANXIETY AND STRESS REDUCTION

	Carola Gatto, Giovanni D’Errico, Fabiana Nuccetelli, Benito Luigi Nuzzo, Maria Cristina Barba, Valerio De Luca, <u>Lucio Tommaso De Paolis</u>
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	<p><u>Session 4 Diagnostics and therapy tools</u></p> <p>Chairs: Mehrdad Naderi, Kristjan Pilt</p>
14:30-14:45	<p>EFFECT OF AGE ON IN VIVO HUMAN BRAIN TISSUE ELECTRICAL CONDUCTIVITY <u>Juha Latikka</u>, Hannu Eskola</p>
14:45-15:00	<p>VISION SCREENING AND TRAINING TOOL FOR SCHOOL-AGED CHILDREN Jelena Slabcova, Evita Kassaliete, Karola Panke, Kristine Kalnica-Dorosenko, Zane Jansone-Langina, Renars Truksa, Sergejs Fomins, Aiga Svede, <u>Gunta Krumina</u></p>
15:00-15:15	<p>THE IMPACT OF DIFFERENT LIGHTING CONDITIONS ON THE NEURAL PROCESSES UNDERLYING RELATIVE DEPTH PERCEPTION OF 3D VISUALIZATION USING MULTIPLANAR VOLUMETRIC DISPLAYS <u>Mehrdad Naderi</u>, Albina Abdullayeva, Tatjana Pladere, and Gunta Krumina</p>
15:15-15:30	<p>INFLUENCE OF ACUTE MENTAL STRESS ON THE FOREHEAD PHOTOPLETHYSMOGRAPHIC SIGNAL WAVEFORM <u>Kristjan Pilt</u>, Deniss Karai, Maie Bachmann, Marietta Gavriljuk, Ivo Fridolin</p>
15:30-15:45	<p>COMPARATIVE OSCILLOMETRY ON FINGER USING PNEUMATICS AND MULTI-WAVELENGTH PHOTOPLETHYSMOGRAPY <u>Jaak Talts</u>, Sander Ümarik, Jana Kivastik, Kersti Jagomägi</p>
15:45-16:00	<p>ACCURACY AND PRECISION OF THE HRV MEASUREMENT BASED ON ECG, PPG, AND MOBILE HRV ON THE POINCARÉ PLOT ANALYSIS <u>Matti Huotari</u>, Erkki Viheälä, Kari Määttä, Teemu Myllylä, Juha Röning</p>
16:00-16:15	<p>APPROACH FOR CALCULATING HEMODIALYSIS UNITS IN CENTRAL MEXICO <u>Fabiola M. Martinez-Licon</u>, Alma E. Martinez-Licon, Raul E. Molina Salazar</p>
16:15-16:30	<p>MRI AND DTI LONGITUDINAL STUDY IN SPINAL CORD CHRONIC INJURY WITH PLASMA PYRROLE POLYMER IMPLANT Arturo Hernández-Medina, Roberto Olayo, Miguel Flores-Leal, Hermelinda Salgado-Ceballos, <u>Axayacatl Morales-Guadarrama</u></p>

	<p><u>Session 5 Education, training, safety and medical technologies quality</u></p> <p>Chairs Ashok Vaseashta, Eric Pace</p>
14:30-14:55	<p>DESIGNING INNOVATIVE BIOMEDICAL ENGINEERING EDUCATION MODELS FOR MEETING EMERGING GLOBAL DEMANDS <u>Shankar Krishnan</u></p>

14:55-15:10	<p>OBJECTIVE SURROGATES FOR PATIENT RISK AND SENSITIVITY-SPECIFICITY AND DESCRIPTORS OF BODY HABITUS FOR THE OPTIMISATION OF ABDOMINOPELVIC CT – AN UPDATE TO APRIL 2023</p> <p><u>Pace Eric</u>, Caruana J Carmel, Bosmans Hilde, Cortis Kelvin, D’Anastasi Melvin, Valentino Gianluca</p>
15:10-15:25	<p>A COMPARATIVE STUDY OF PATIENT DOSE RELATED SUMMARY STATISTICS FROM COMMERCIAL VS FREE OPEN-SOURCE DOSE MONITORING PLATFORMS</p> <p><u>Nicholas Cardona</u>, Eric Pace, Carmel J Caruana</p>
15:25-15:40	<p>HEMODIALYSIS OPTICAL MONITORING TOWARDS GREENER TECHNOLOGY: A POTENTIAL FOR WATER SAVING DIALYSIS TREATMENT</p> <p><u>Leis L.</u>, Adoberg A., Paats J., Holmar J., Arund J., Karai D., Luman M., Pilt K., Taklaja P., Tanner R., Fridolin, I.</p>
15:40-15:55	<p>SHIELDING CALCULATION AND VERIFICATION FOR 15MV MEDICAL LINEAR ACCELERATOR TREATMENT FACILITIES</p> <p>Md Mokhlesur Rahman, <u>Md Saiful Islam</u>, Nahida Sultana, Mohammad Ullah, Md. Zulkar Naen, Dr. Md. Akhtaruzzaman, Md. Masud Rana</p>
15:55-16:10	<p>DOSIMETRY ASPECTS OF HOLMIUM-166 RADIOEMBOLIZATION</p> <p><u>Kirill Skovorodko</u>, Marius Kurminas, Inga Andriulevičiūtė, Renata Komiagienė</p>
16:10-16:25	<p>DEVELOPMENT OF NEW SYNTHESIS METHODS FOR ANTIDOTES IN CASES OF RADIATION CONTAMINATION</p> <p><u>Ugis Eismonts</u>, Andris Actins, Kristine Saleniece, Ingars Reinholds, Maris Bertins, Arturs Viksna, Gunta Kizane, Andrejs Grinbergs</p>
16:25-16:40	<p>EDUCATION AND TRAINING SCHEMES IN EUROPEAN COUNTRIES</p> <p>Paddy Gilligan</p> <p>(Remotely)</p>