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NATIONAL INSTITUTE for
R&D in ELECTRICAL
ENGINEERING ICPE-CA
Bucharest, ROMANIA

PROGRAMME

Conference INGIMED XXth

“Biomedical Engineering at the crossroads of concepts in the world and of generations in Romania”

November 7, 2019

Conference Hall of the National Institute for R&D in Electrical Engineering ICPE-CA
313-Splaiul Unirii, District 3, Bucharest, building J, 3rd floor

Thursday, November 7, 2019

09³⁰ - 10⁰⁰

Reception and registration of participants

10⁰⁰ - 10²⁰

Opening speeches

Dr. Sergiu Nicolaie, MEng, *Director General of INCDIE ICPE-CA, Bucharest*
Acad. Mircea Ifrim, *Secretary General of the Romanian Academy of Medical Sciences*
Prof. Wilhelm Kappel, MPhys, *Scientific Director of INCDIE ICPE-CA, Bucharest*
Prof. Radu M. Negoescu, MEng, MPH, *Director of Romanian Federation of Biomedical Engineering, Bucharest*
Dr. Mircea Ignat, MEng, *Coordinator of “Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest*

10²⁰ - 12⁰⁰

Session I – Chair: Prof. Dr. Radu M. Negoescu

From multidisciplinary to interdisciplinarity in medicine (*De la multidisciplinaritate la interdisciplinaritate în medicină*), Prof. Gheorghe I. Mihalaş, MPhys, MMath – Academy of Medical Sciences Timișoara Chapter, Commission of Medical Informatics and Data Protection, Timișoara, Romania

Crossroad of BME in present: detaching of bioengineering from medical engineering in advanced countries and a generation change on organizing INGIMED conferences in Romania (*Răscrucea actuală a ingineriei biomedicale: în țările avansate individualizarea bioingineriei în contextul crizei planetare și schimbarea de generație în organizarea conferințelor INGIMED în România*), Prof. Radu M. Negoescu, MEng, MPH – Academy of Medical Sciences & National Institute of Public Health, Bucharest, Romania

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| 10 ²⁰ – 12 ⁰⁰ | <p>Medical Bioengineering – 25 years of didactic and scientific performance in lassy (<i>Bioingineria medicală – 25 de ani de performanță didactică și științifică la Iași</i>), Prof. Anca Irina Galaction, MBioeng. - Faculty of Medical Bioengineering, “Grigore T. Popa” University of Medicine and Pharmacy, Iassy, Romania</p> |
| | <p>Status of microelectronics, biomedical engineering and health promotion technologies in the Republic of Moldova (<i>Starea microelectronicii, a ingineriei biomedicale și a tehnologiilor de promovare a sănătății în Republica Moldova</i>), Assoc. Prof. Vitalie Scripnic, Dr. Hab. Biol.; Assoc. Prof. Vasile Socolov, MD – International Free University; Anatol Iavorschi, MEng – The Technical University; Dr. Corneliu Scripnic, MD - “Nicolae Testemițanu” State University of Medicine and Pharmacy; Kishinev, Republic of Moldova</p> |
| | <p>Quo vadis Homo futuris? (<i>Quo vadis Homo futuris?</i>), Prof. Cristina Mocanu, MD – Carpatia Group, Bucharest, Romania / Rockville Faculty of Medicine, University of Maryland, USA; Assoc. Prof. Manole Cojocar, MD – Faculty of Medicine, “Titu Maiorescu” University, Bucharest, Romania</p> |
| 12 ⁰⁰ – 13 ⁰⁰ | <p>Friendly and musical intermezzo offered by AMRP and Carpatia Group</p> |
| 13 ⁰⁰ – 14 ⁴⁵ | <p>Session II – Chair: Dr. Mircea Ignat</p> |
| | <p>Assessment of sympathetic supra-normal drive to heart via 24 h spectral RR Holter using artificial neural networks (<i>Evaluarea controlului simpatic supranormal al miocardului prin spectrele RR derivate din Holter-24 h folosind rețele neurale artificiale</i>), Assoc. Prof. Șerban Dincă-Panaitescu, MEng - School of Health Policy and Management, York University, Toronto, Canada; Prof. Alin Achim, MEng - Faculty of Engineering, University of Bristol, United Kingdom; Prof. Radu M. Negoescu, MEng, MPH – Academy of Medical Sciences & National Institute of Public Health, Bucharest, Romania</p> <p>Therapeutic plasmapheresis, a solution for the patient with hypercholesterolemia (<i>Plasmafereza terapeutică, o soluție pentru pacientul cu hipercolesterolemie</i>), Assoc. Prof. Corneliu Zeană, MD – “Carol Davila” University of Medicine and Pharmacy & Floreasca Emergency Hospital, Bucharest, Romania</p> |

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| | <p>Determination of the rate of aging and diagnosis criteria (Evaluarea ritmului îmbătrânirii și criteriile de diagnoză), Assoc. Prof. Vitalie Scripnic, Dr. Hab. Biol.; Assoc. Prof. Vasile Socolov, MD - International Free University; Anatol Iavorschi, MEng – The Technical University; Corneliu Scripnic, MD and Veronica Gheorghiuță, MD - "Nicolae Testemițanu" State University of Medicine and Pharmacy; Kishinev, Republic of Moldova</p> |
| | <p>Flashback to founding fathers: the 150th anniversary of HW CUSHING, a key personality of world neurosurgery, a promoter of specific technologies & devices and a friend of Romania (Omagiu pentru fondatori: aniversarea 150 a lui HW CUSHING, un titan al neurochirurgiei mondiale, un promotor al instrumentației și tehnologiilor specifice și un prieten al României), Horia Mihai Berceanu, MD - Neurosurgery Section, District Hospital, Ploiești, Romania</p> |
| | <p>Aspects on the life cycle management of medical equipments (Aspecte privind gestionarea ciclului de viață al echipamentelor medicale), Assoc. Prof. Călin Corciovă, MBioeng.; Assist. Prof. Doru Andrițoi, MBioeng.; Assist. Prof. Cătălina Luca, MBioeng. – Faculty of Medical Bioengineering, "Grigore T. Popa" University of Medicine and Pharmacy, Iassy, Romania</p> |
| | <p>Ceramic biomaterials for medical applications at ICPE-CA. Recent advances and future directions (Biomateriale ceramice pentru aplicații medicale la ICPE-CA. Rezultate recente și tendințe de dezvoltare), Christu Țârdei, MEng; Dr. Dorinel Tâlpeanu, MEng - Laboratory of Ceramic Materials, Department of Carbon-Ceramic Materials, INCDIE ICPE-CA, Bucharest, Romania</p> |
| | <p>Designing an exoskeleton for rehabilitation of the movements of the fingers (Proiectarea unui exoschelet pentru reabilitarea mișcărilor degetelor de la nivelul mâinii), Student Cristian-Robert Zanfir – Faculty of Medical Engineering, Politehnica University of Bucharest, Romania</p> |
| 14 ⁴⁵ – 15 ¹⁵ | <p>Coffee break Poster session</p> |
| 15 ¹⁵ – 15 ⁴⁵ | <p>Round table: „The process of transmitting the INGIMED relay to the next generations” Moderator: Dr. Mircea Ignat, MEng, Coordinator of „Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research (CITCS)</p> |

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| 15⁴⁵ – 16⁰⁰ | <p>Mini-exhibition of bioengineering systems developed by the members of <i>“Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research, Bucharest, Romania</i></p> |
| | <p>Visit to laboratories and departments of INCDIE ICPE-CA Bucharest</p> |
| 16⁰⁰ – 16¹⁰ | <p>Closing remarks. Conclusions Prof. Gheorghe I. Mihalaş, MPhys, MMath, and Prof. Radu M. Negoescu, MEng, MPH <i>Academy of Medical Sciences of Romania</i></p> |