



ROMANIAN MINISTRY of  
RESEARCH and  
INNOVATION



# INGIMED XIX<sup>th</sup> „Biomedical Engineering in Romania over the Century of Unification: history, present, perspectives”

November 22, 2018

## - PROGRAMME -

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

### Thursday, November 22, 2018

09<sup>30</sup> - 10<sup>00</sup>

**Reception and registration of participants**

10<sup>00</sup> - 10<sup>20</sup>

#### Opening speeches

Dr. Sergiu Nicolaie, MEng, *General Director of INCDIE ICPE-CA, Bucharest*

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*

10<sup>20</sup> - 12<sup>00</sup>

#### Plenary Session I – Chair: Prof. Radu NEGOESCU

**Four Decades of Medical Informatics in Romania (*Patru decenii de informatică medicală în România*)**, Prof. Gheorghe I. Mihalaş, MPhys, MMath - *Academy of Medical Sciences of Romania, Timişoara Chapter, Commission of Medical Informatics and Data Protection, Timisoara, Romania*

**A Retrospect of Biomedical Engineering at Greater Romania’s Centenary (*Retrospectiva ingineriei biomedicale la Centenarul României Mari*)**, Prof. Radu M. Negoescu, MEng, MPH - *Academy of Medical Sciences & National Institute of Public Health, Bucharest, Romania*

	<p><b>Bioengineering - Biotechnology - Bioethics (<i>Bioinginerie – Biotehnologie - Bioetică</i>)</b>, Prof. Constantin Bogdan, MD – AGORA Association, Bucharest, Romania</p> <p><b>100 years of Endocrinology: from Insulin to Vitamin H3 (<i>100 de ani de endocrinologie: de la insulină la vitamina H3</i>)</b>, Dr. Cristina Mocanu, MD – CARPATIA Group/Medical Clinics, Bucharest; Assoc. Prof. Manole Cojocaru, MD – “Titu Maiorescu” University, School of Medicine, Bucharest; Dr. Simona Soare, MD – SUUB Elias &amp; “Titu Maiorescu” University, School of Medicine, Bucharest, Romania</p> <p><b>Involvement of New Technologies in Correct Identification of the Disposition of Adipose Tissue and of Metabolic Risk (<i>Implicarea noilor tehnologii în identificarea corectă a dispoziției țesutului adipos și a riscului metabolic</i>)</b>, Dr. Simona Carniciu, MD – The Centre for Research, Diagnosis and Treatment in Diabetes and Metabolic Diseases CORPOSANA, Bucharest, Romania</p>
12 <sup>00</sup> – 12 <sup>45</sup>	<p><b>Centenary Intermezzo</b></p>
12 <sup>45</sup> – 14 <sup>15</sup>	<p><b>Plenary Session II – Chair: Dr. Mircea IGNAT</b></p> <p><b>Cardiovascular Bioengineering at the Crossroad of XX<sup>th</sup> and XXI<sup>st</sup> Centuries: a Message to Deliver for Epidemiology of Sudden Cardiac Death Corde Indemno (<i>Bioingineria cardiovasculară la încrucișarea secolelor XX și XXI: un cuvânt de spus în epidemiologia morții cardiace subite corde indemno</i>)</b>, Assoc. Prof. Șerban Dincă-Panaitescu, MEng, School of Health Policy and Management, York University, Toronto, Canada; Mihaela Dincă-Panaitescu, BPhys, MSc, United Way, Toronto, Canada; Prof. Radu M. Negoescu, MEng, National Institute of Public Health &amp; Academy of Medical Sciences, Bucharest, Romania</p> <p><b>50-year Retrospect of the Medical Applications of Laser Technologies in Romania (<i>O retrospectivă pe 50 de ani asupra aplicațiilor medicale ale tehnologiilor laser în România</i>)</b>, Lect. Dr. Ioana Soare, MD - “Titu Maiorescu” University of Bucharest, School of Medicine, Bucharest, Romania</p> <p><b>Management of Special Categories of Personal Data in Medical Insurance for GDPR Compliance (<i>Managementul categoriilor speciale de date cu caracter personal în asigurările medicale pentru conformitate cu RGDP</i>)</b>, Lucia Ștefan, MSc, Archiva Ltd., London, UK</p> <p><b>Applying Anonymous Signature Schemes to the Romanian National Health Insurance System (<i>Aplicarea schemelor cu semnături anonime în sistemul electronic al asigurărilor de sănătate</i>)</b>, Narcis Florentin Antonie, MEng, Drd – Military Technical Academy of Bucharest; Prof. Ciprian Răcuciu, MEng - “Titu Maiorescu” University of Bucharest; Ileana Mariana Mateș, MEng, Drd - Politehnica University of Bucharest; Dragoș Glăvan, MEng, Drd - Military Technical Academy of Bucharest, Romania</p>

	<p><b>Finite Element Modelling of an Implant for Radius (<i>Modelare cu element finit a unui implant pentru radius</i>)</b>, Dragoş Glăvan, MEng, Drd - Military Technical Academy of Bucharest; Ileana Mariana Mateş, MEng, Drd - Politehnica University of Bucharest; Narcis Florentin Antonie, MEng, Drd - Military Technical Academy of Bucharest; Assoc. Prof. Dan Nicolae Batalu, MEng - Politehnica University of Bucharest; Lect. Ioana Cătălina Enache, MEng - Politehnica University of Bucharest; Radu Moinescu, MEng, Drd - Military Technical Academy of Bucharest, Romania</p> <p><b>Game and Procedure Regarding the Surgeon's Training. Case Study: Fingerprint of the Surgeon (<i>Joc și procedură privind formarea chirurgicală. Studiu de caz: Amprenta chirurgului</i>)</b>, students: David Nicolae Voicu, Luca Andrei Glăvan - "Spiru Haret" National College, Bucharest &amp; "Alexandru Proca" Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest, Romania</p>
14 <sup>15</sup> – 14 <sup>30</sup>	<p><b>Coffee break</b></p>
14 <sup>30</sup> – 15 <sup>15</sup>	<p><b>Round table „Contributions of Electromechanical Engineering in the Field of Medicine”</b> Moderator: Dr. Mircea Ignat, Coordinator of „Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research (CITCS)</p>
15 <sup>15</sup> – 15 <sup>45</sup>	<p><b>Mini-exhibition of Bioengineering Systems</b> developed by the members of “Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research, Bucharest, Romania</p>
	<p><b>Poster session</b></p> <p><b>Entrepreneurial Research on an Urology Centre Specializing in Renal Surgery (<i>Cercetări antreprenoriale privind un centru de urologie cu specializare în chirurgie renală</i>)</b>, student Yuan Jiarong - International Theoretical High School of Informatics, Bucharest, Romania &amp; "Alexandru Proca" Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest, Romania</p> <p><b>Computational elements of the lipid structures (<i>Elemente ale structurilor lipidice</i>)</b>, student Andrei Ionescu - „Mihai Viteazul” National College, Ploiești, Romania &amp; "Alexandru Proca" Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest; student Serghei Ulian - International Theoretical High School of Informatics, Bucharest &amp; "Alexandru Proca" Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest, Romania</p> <p><b>Short history of dialysis (<i>O scurtă istorie a dializei</i>)</b>, students: David Nicolae Voicu and Luca Andrei Glăvan - "Spiru Haret" National College, Bucharest &amp; "Alexandru Proca" Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest, Romania</p> <p><b>Electrotherapy aspects (<i>Aspecte ale electroterapiei</i>)</b>, students: Bianca Denşorean, Yuan Jiarong and David Peța - International Theoretical High School of Informatics, Bucharest &amp; "Alexandru Proca" Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest, Romania</p>

	<p><b>Impressions about “Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research (<i>Impresii despre Centrul „Alexandru Proca” pentru Inițierea în Cercetarea Științifică a Tinerilor</i>), student Dan-Andrei Corbeanu – IMT Bremen, Germany</b></p>
<p><b>15<sup>45</sup> – 16<sup>00</sup></b></p>	<p><b>Closing remarks</b>  Prof. Gheorghe I. Mihalaș and Prof. Radu M. Negoescu  <i>Academy of Medical Sciences of Romania</i></p>
<p><b>16<sup>00</sup> – 16<sup>15</sup></b></p>	<p><b>Conclusions</b>  Prof. Adriana Sarah Nica, MD, <i>“Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania</i>  and  Dr. Mircea Ignat, MEng, <i>Coordinator of “Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research, INCDIE ICPE-CA Bucharest, Romania</i></p>