



MINISTRY of RESEARCH,
INNOVATION and
DIGITIZATION



ACADEMY of
MEDICAL SCIENCES



ROMANIAN
MEDICAL
ASSOCIATION for
PLASMAPHERESIS



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

PROGRAMME

INGIMED XXIIth 2021 Conference "Advances in bioengineering" 18th November, 2021

National conference with international participation,
on-line scientific event

Thursday, 18 th November, 2021	
09:30 – 10:00	Online appeal of all speakers; technical set-up
10:00 – 10:30	<p>Opening remarks</p> <ul style="list-style-type: none"> • Dr. Sergiu Nicolaie, <i>General Director of INCDIE ICPE-CA, Bucharest</i> • Dr. Cristian Buşoi, <i>Member of European Parliament, Chair of Commission for Industry, Research and Energy</i> • Prof. Dr. Gheorghe Mihalaş, <i>Romanian Academy of Medical Sciences, Commission of Medical Informatics, Biostatistics and Data Protection, Romania</i> • Prof. Wilhelm Kappel, <i>Counsellor of INCDIE ICPE-CA, Bucharest</i> • Dr. Mircea Ignat, <i>Coordinator of "Alexandru Proca" Centre for the Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA, Bucharest</i> <p><i>Please notice: 15 minute presentation and discussions for each subject</i></p>
10:30 – 10:45	<p>About Professor Radu Negoescu – a special personality (Despre profesorul Radu Negoescu - o personalitate deosebită)</p> <ul style="list-style-type: none"> • Daniel Comaniţa, <i>Entrepreneur, Romania</i> • Prof. Olgaţa Panţuroiu, <i>Member of RURALIA Foundation, Pietroşiţa, County Dâmboviţa, Romania</i> • Prof. Voicu Vicu, <i>President of the Literary Section of RURALIA Foundation, Pietroşiţa, County Dâmboviţa, Romania</i>
10:45 – 12:30	<p>Session I – Main invited speakers Chair: Dr. Mircea Ignat</p>
	<p>10:45 – 11:00</p> <p>1. A lack in bioengineering education: the safety of bio-instruments (O absenţă în educaţia bioingineriei: siguranţa instrumentelor bio-medicale), <i>MSc Steli Loznen – Vice President for Technical Activities and Member of the Board of Governors, IEEE-PSES, Tel Aviv, Israel</i></p>

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10:45 – 12:30

11:00 – 11:15

2. Sonification – at the crossroad between bioengineering and medical informatics (Sonificarea – la intersecția între bioinginerie și informatică medicală), Prof. Gheorghe I. Mihalaș, MPhys, MMath - "Victor Babeș" University of Medicine and Pharmacy, Timișoara, Romania, Center for Biological Systems Modeling and Data Analysis; Romanian Academy of Medical Sciences, Commission of Medical Informatics, Biostatistics and Data Protection, Romania

11:15 – 11:30

3. Plasmapheresis in severe COVID-19 patient (Plasmafereza în cazurile severe de COVID-19), Dr. Corneliu Zeană, MD; Dr. Eminia Cornelia Zeană, MD – Floreasca Emergency Clinical Hospital, Bucharest, Romania

11:30 – 11:45

4. The Covid-19 test (Testul Covid-19), Assoc. Prof. Manole Cojocar¹, MD; Prof. Simona Soare¹, MD, PhD; Prof. Cristina Mocanu², MD

¹Faculty of Medicine, "Titu Maiorescu" University, Bucharest, Romania

²Carpatia Group, Bucharest, Romania & Rockville Faculty of Medicine, University of Maryland, Baltimore, USA

11:45 – 12:00

5. Cardiac medical devices (Dispozitive medicale cardiace), Prof. Simona Soare¹, MD, PhD; Assoc. Prof. Manole Cojocar¹, MD; Prof. Cristina Mocanu², MD

¹Faculty of Medicine, "Titu Maiorescu" University, Bucharest, Romania

²Carpatia Group, Bucharest, Romania & Rockville Faculty of Medicine, University of Maryland, Baltimore, USA

12:00 – 12:15

6. Influence of information in anticipatory behavior (Influența informației în comportamentul anticipativ), Marian Alin Stavre^{1,3}, student; Prof. Pierre Joseph de Hillerin^{2,3}, PhD; Alexandra Iacobini^{2,3}, PhDs

¹Bucharest University of Economic Studies, Bucharest, Romania

²University of Pitești, Romania

³S.C. Information for Sport and Human Performance, Bucharest, Romania

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12:15 – 12:30

7. Nanoparticles in support of RT-qPCR (Nanoparticule în sprijinul RT-qPCR), Bogdan Tutunea, student; Ana-Maria Icodin, student; Iustin Geană, student - Faculty of Medicine, "Titu Maiorescu" University, Bucharest, Romania; Alexandra-Gabriela Popp, student - Faculty of Medicine, "Carol Davila" University, Bucharest, Romania
Coordinator: Assoc. Prof. Manole Cojocaru, MD – Faculty of Medicine, "Titu Maiorescu" University, Bucharest, Romania

12:30 – 13:00

Short break

Session II – Invited speakers

Chair: Dr. Mircea Ignat

13:00 – 13:15

8. A less known personality: the pathologist professor Florin Hălălău, director of "Victor Babeș" National Institute of Pathology, Bucharest (O personalitate mai puțin cunoscută: Profesorul patolog, Florin Hălălău, director al Institutului Național de Cercetare-Dezvoltare "Victor Babeș", București), Eng. Florin Hălălău – Solaron Construct SRL, Bucharest, Romania

13:15 – 13:30

9. Relationship between LDH and Mg in monitoring of hematologic and non-hematologic malignant diseases (Relația între LDH și Mg în monitorizarea bolilor maligne hematologice și nehematologice), Dr. Aurelian Udriștioiu, MD, Fellow PhD in Molecular Biology, "Titu Maiorescu" University, Faculty of Medicine, Bucharest, Romania

13:00 – 15:15

13:30 – 13:45

10. Demyelinating: a research into the use of electrical models in studying demyelinating diseases (Cercetare privind demielinizarea bazată pe modelarea prin circuite electrice și model matematic), Despina Iuliana Gica, high school student – "Mihai Viteazul" National College, Bucharest & "Alexandru Proca" Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest, Romania

13:45 – 14:00

11. Study of microbiological structures with the purpose of creating MEMS actuators with various applications in medicine (Studiu bionic cu aplicații asupra unor microactuatori utilizați în medicină), Robin Bucur-Portase; high school student – "Mihai Viteazul" National College, Bucharest & "Alexandru Proca" Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest, Romania

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14:00 – 14:15

12. Bioelectrochemical systems: approaches and opportunities (Sisteme bioelectrochimice: abordări și oportunități), Eng. Cristina Obreja, MSc student - INCDIE ICPE-CA, Bucharest, Romania

14:15 – 14:30

13. Nanoelectromechanical models of the viruses (Modele nanoelectromecanice ale virusurilor), Alexandru Dianu, high school student – International Theoretical High School of Informatics, Bucharest & “Alexandru Proca” Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest, Romania; Raisa Axenie, high school student - National College of Informatics “Tudor Vianu”, Bucharest & “Alexandru Proca” Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest; Alexandru Ianov, high school student – National College of Informatics “Tudor Vianu”, Bucharest & “Alexandru Proca” Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest, Romania

13:00 – 15:15

14:30 – 14:45

14. Guidance system for the visually impaired people (Sistem de orientare pentru persoanele cu probleme de vedere), Mihai Dumitrescu, high school student – International Theoretical High School of Informatics, Bucharest & “Alexandru Proca” Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest; Matei Iosip, high school student, Hermann Oberth International German School, Bucharest & “Alexandru Proca” Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest; Mihai Răzvan Vârlan, high school student - “Mihai Viteazul” National College, Bucharest & “Alexandru Proca” Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest; Dr. Elena Iliescu – Hiperdia Health Clinic, Bucharest, Romania

Thursday, 18 th November, 2021	
13:00 – 15:15	<p style="color: red;">14:45 – 15:00</p> <p>15. Formulation of subjects regarding electromagnetic forces. Applications in conductive microfluidic environments (Formularea unor teme privind forța electromagnetică. Aplicații în medii microfluidice conductoare), <i>Cristiana Andreea Murgoci, high school student – International Theoretical High School of Informatics, Bucharest & “Alexandru Proca” Center for Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest, Romania</i></p>
	<p style="color: red;">15:00 – 15:15</p> <p>16. Aspects regarding the approach of research projects in the field of biomedical engineering by the high school students (Aspecte privind abordarea unor teme de cercetare din domeniul bioingineriei medicale de către elevii de liceu), <i>Dr. Mircea Ignat - Coordinator of “Alexandru Proca” Centre for the Youngsters Initiation in Scientific Research (CICST) within INCDIE ICPE-CA Bucharest, Romania</i></p>
15:15	Conference closure

<http://www.icpe-ca.ro/icpe-ca/evenimente/ingimed-2021/book-of-abstracts-ingimed-2021.pdf>