



New medical technologies as innovation drivers

Workshop

21st March, 2018

AGENDA

Venue: Medical Education Technology Centre of Rīga Stradiņš University,

Conference Hall (room No. 130), Anniņmuižas blvd. 26a, Riga

14:00 – 14:10	Welcome Linda Gabrusenoka, Head of Technology Transfer Office, Riga Stradiņš University
14:10 – 15:00	Increasing your impact in the world through medical device innovation <ul style="list-style-type: none">• The physician's role in medical device design• Starting a medical device project<ul style="list-style-type: none">◦ Defining the need◦ Finding the right partners◦ Funding the project Liran Ankri, Head Of Engineering, Singer Instruments and Control 10 min – Q&A session
15:00 – 15:20	Radionuclide theranostics - emerging field of personalized medicine <ul style="list-style-type: none">• Radiopharmaceuticals for molecular imaging and for molecular radiotherapies• Imaging for studying and measuring the effectiveness of the therapy• Protein prostate-specific membrane anti-gen (PSMA) - targeting molecule labelled with a radionuclide as a means of both imaging and treating prostate cancer Vitālijs Skrīvelis, CEO of Nuclear Medicine Centre 5 min – Q&A session
15:20 – 15:40	Break
15:40 – 16:00	Augmented and virtual reality <ul style="list-style-type: none">• Physical Principles of Technology• Vision ergonomic problems of vision• Potential development directions Dr. Sergejs Fomins, senior researcher of Laboratory of Visual Perception, University of Latvia 5 min – Q&A session
16:00 – 16:20	The impact of OLED and AMOLED displays of a mobile smart device on people's perception of vision (presentation in Latvian) Dr. Māris Ozoliņš, professor of Department of Optometry and Visual Science, Faculty of Physics and Mathematics, University of Latvia 5 min – Q&A session
16:20 – 16:40	Department of Physics – Your partner for development Jevgenijs Proskurins, Acting Head of Department of Physics, Asst.Prof. 5 min – Q&A session



SPEAKERS

Liran Ankri – Head Of Engineering, Singer Instruments and Control

Liran has 12 years of experience in engineering and holds a B.Sc in Aerospace Engineering and an MBA, both from the Technion. Liran is a former Israeli Air-force Captain. During his 8 years of service as aerospace engineer at the IAF, he specialized in helicopters structure and mechanics and led numerous projects in the helicopters world, including the engineering aspects of returning a severely battle damaged helicopter to service. At Singer, Liran led several of medical device development and manufacturing projects in the past 2 years, including a delivery device for a trans-apical tissue closure device for TAVI procedures, innovative orthopedic anchor, and a device for continuous monitoring of cardiac output.

Vitālijs Skrīvelis, CEO of Nuclear Medicine Centre, BSc. in Biology, MBA

Dr. Sergejs Fomins, senior researcher of Laboratory of Visual Perception, University of Latvia

The interests of Sergejs lie in the field of applied vision, multispectral imaging and illumination technology. He took part in the EU projects on the multispectral digital control, vision screening, and visual stress. At the moment he is engaged in the project for visual ergonomics. He is the expert of medicine physics at Latvian Science Council. Recently, became an active member of the International Colour Vision Society and is a member of the organising team of ICVS meeting in Riga, 2019. Sergejs is the co-author of at least two Latvian patents and European patent for colour vision test, owned by UL Institute of Solid State Physics.

Dr. Māris Ozoliņš, professor of Department of Optometry and Visual Science, Faculty of Physics and Mathematics, University of Latvia

M.Ozoliņš has experience in material science, laser physics, visual optics and techniques of investigation eye optical structures and diagnostics. His research field touches new trends and developments in lighting and visual perception, and the nowadays advance toward a wide implementing of economic light diode LED irradiation in panels of illumination, and in digital information visualization using high spatial density OLED and AMOLED emitters. Here he focuses on spectral output of these LED elements in blue region of visible range and in near ultraviolet that can be hazardous for eye structures and have an impact on eye photoreceptors.

Jevgenijs Proskurins, Acting Head of Department of Physics, Asst.Prof.

Jevgenijs is a distinguished lecturer/researcher with a proven track record. He received a number of awards for outstanding contribution to developing new talent in the field of physics and science, including 15 honors diplomas from the Government of Latvia.

Currently works as the Head of Physics department at RSU, teaching a medical physics course to students from all over Europe and managing various medical lab works. He is also engaged as a physics lecturer at Riga State Gymnasium No.1, teaching an International Baccalaureate Physics Program at the top rated physics and mathematics high school in Latvia.

His scientific interests are nuclear and radiation physics, interdisciplinary research in medicine, biology, physics and mathematics, non-linear phenomena in complex systems, fractals, self-organization properties and imaging techniques.