

Agenda

Date
20,21,22 / 10 / 2022

Avenue
THE WESTIN HOTEL, IZIDORA KRŠNJAVOGA 1, ZAGREB

01 Thursday, October 20, 2022

9:00 Registration

9:30 Mario Novak, Ph.D.: "The use of novel technologies in the research of ancient people and diseases" (Institute for Anthropological Research)

9:55 Assistant Professor, Ph.D. Sasha Missoni: "Management in science" (Institute for Anthropological Research)

10:20 Assistant Professor Kresimir Krizanovic, Ph.D.: "Diagnostics through genome sequencing, applications in human and veterinary medicine" (University of Zagreb, Faculty of Electrical Engineering and Computing)

10:45 Opening ceremony

12:00 Lunch

10:00 - 12:00 Workshop: Application of 3D modeling in medicine and veterinary medicine (Strojotehnika d.o.o. and University of Zagreb, FSB)

01 Thursday, October 20, 2022

Neurosurgical and Neurological Engineering

13:00 Academician Vida Demarin M.D., Ph.D., FAAN, FAHA, FESO, FEAN, FWSO: "Dopler - the Game changer in Brain's Health" (Croatian Academy of Sciences and Arts)

13:25 Assistant Professor Hrvoje Budincevic, M.D. Ph.D., FEAN, FESO: "Brain's Circulation Monitoring in Clinical Practice" (University Hospital Sveti Duh)

13:50 Assistant Professor Vladimira Vuletic, M.D. Ph.D. FEAN: "Technical Improvements Improve Outcomes in Neurodegenerative Diseases" (Head of Clinical Department of Neurology, UHC Rijeka)

14:15 Professor Vladimir Ivkovic PhD, MSc, MSS, ScD hc: "Functional Brain and Physiologic Monitoring: From Extreme Environments to Clinical Applications" (Harvard University)

14:30 Coffee break

Medical Robotics

15:00 Professor Darko Chudy, M.D., Ph.D.: "Robotics in cranial neurosurgery" (Clinical Hospital Dubrava)

15:25 Filip Suligoj, Ph.D.: "Image-guided robotic interventions are medical procedures that integrate robotic and imaging technologies, predominantly to perform minimally invasive surgery" (University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture)

15:40 Professor Zdenko Kovacic, Ph.D.: "Robotics in Medicine - Projects of Laboratory for Robotics and Intelligent Control Systems (LARICS)" (University of Zagreb, Faculty of Electrical Engineering and Computing)

16:00 Assistant Professor Tvrtko Hudolin, M.D., Ph.D.: "Radical prostatectomy from open to robotic" (Department of urology, KBC Zagreb)

Scientific works of young researchers

16:00 - 17:30 Workshop: Patent protection strategies in medicine

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Tissue and Regenerative Engineering

09:00 Professor Iva Dekaris, M.D. Ph.D. "Transplantation of in vitro cultured corneal limbal stem cells in corneal combustion" (Svjetlost Eye Clinic)

09:25 Igor Erjavec, Ph.D.: "Application of osteoinductive agents for bone tissue engineering" (University of Zagreb School of Medicine)

Pharmaceutical Engineering

09:50 Visnja Stepanic, Ph.D.: "Technology driven drug discovery" (Rudjer Boskovic Institute)

10:15 Ljiljana Fruk, Ph.D.: "BioNano Engineering" (University of Cambridge)

Scientific works of researchers

12:00 Lunch

10:00 - 12:00 Workshop: Telemedicine and telehealth

Cardiovascular Engineering

13:00 Professor Hrvoje Gasparovic, M.D., Ph.D., FETCS, "Unmet Challenges in Implantable Mechanical Circulatory Support" (Head of the Clinic for Heart and Blood Vessel Diseases - KBC Zagreb)

13:15 Tomislav Tokic, M.D.: "Left Ventricular Assist Devices: a Historical Perspective" (KBC Zagreb)

13:40 Igor Karsaj, Ph.D.: "The role of numerical models in vascular diseases treatment" (University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture)

Orthopedic Engineering

14:05 Professor Michael Sutcliffe, Ph.D.: "Advanced technologies in the study of knee biomechanics", (University of Cambridge)

14:30 Petra Bonacic Bartolin, Ph.D.: "Repair and reconstruction techniques of ligaments of the knee joint" (University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture)

14:45 Hrvoje Klobucar, M.D., Ph.D. "Tendon-bone junction - pathology and treatment options" (Acromion -Special hospital for orthopedics and traumatology)

15:00 Professor Mario Kasovic, Ph.D.: "Biomechanics of gait analysis" (University of Zagreb, Faculty of Kinesiology)

15:15 Coffee break

Diagnostic Engineering

15:30 Assistant Professor Jelena Bozek, Ph.D. "Medical image analysis of the brain: from newborns to adulthood" (University of Zagreb, Faculty of Electrical Engineering and Computing)

15:45 Petra Margetic, M.D., Ph.D. "The role of modern digital technology in diagnostic imaging" (Sisters of Charity Hospital)

Biomedical Instruments

16:00 Associate Professor Zeljka Lucev Vasic, Ph.D. "Intrabody communication in biotelemetry" (University of Zagreb, Faculty of Electrical Engineering and Computing)

16:15 Professor Ratko Magjarevic, Ph.D.: "Development of biomedical instruments" (University of Zagreb, Faculty of Electrical Engineering and Computing)

Health Informatics

16:30 Associate Professor Alan Jovic, Ph.D.: "Development of a Web-Based Platform for Biomedical Time Series Analysis - Best Practices and Challenges" (University of Zagreb, Faculty of Electrical Engineering and Computing)

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Veterinary Engineering

16:45 Professor Matthew J Allen, MA VetMB PhD FORS MRCVS: "[Robotic testing in veterinary medicine](#)" (University of Cambridge)

17:00 Dr. Kirsten Häusler, PHD, CCRP: "[Application of technology in animal rehabilitation](#)" (Private practice in Germany)

17:15 Bill Oxley MA VetMB DSAS(Orth) MRCVS RCVS "[3D printing in veterinary medicine](#)" (Vet3D)

Scientific works of researchers

03 Saturday, October 21, 2022

Rehabilitation Engineering

09:00 Lana Popovic -Maneski, Ph.D.; "[Rehabilitation engineering in the service of disability](#)" (Serbian Academy of Sciences and Arts)

Scientific works of researchers

11:10 [Closing ceremony](#)

12:00 [Lunch](#)

10:00 - 12:00 [Separate Panel: Women in science](#)

10:00 - 12:00 [Separate panel: Mental health during Ph.D. studies](#)