

BIOMEDICAL ENGINEERING meets MEDICAL FACULTY

Wrocław University of Science and Technology

28 November 2023, 13:00 – 15:00

Building H-14, “sala rektorska”

PROGRAM

Opening of the meeting

Prof. Paweł Machnikowski – Dean of the Faculty of Fundamental Problems of Technology

Prof. Dariusz Jagielski – Dean of the Faculty of Medicine

Signal analysis, bioinformatics, head/neck studies

1. Prof. Robert Iskander, *OCT speckle as a source of information supporting medical diagnosis.*
2. Dr hab. inż. Magda Kasprowicz, prof. PWr, *Advancements in Neuroengineering: From Brain Monitoring to AI Predictive Model.*
3. Dr hab. inż. Cezary Sielużycki, prof. PWr, *Can maths aid neuroscience? A working example.*
4. Dr hab. inż. Sebastian Kraszewski, *Advanced numerical tools in modern 3P medicine - from molecular design to mobile apps.*
5. Prof. Krystian Kubica, *Mathematical model of ticagrelor pharmacokinetics.*
6. Dr hab. inż. Mirosław Łątka, prof. PWr, *Smartphones and wearable devices in medicine.*
7. Prof. Małgorzata Kotulska, *Amyloid proteins and their interactions at the onset of neurodegenerative diseases.*

Bio-optics

8. Prof. Halina Podbielska, *Monitoring outcomes of medical procedures by thermal imaging.*
9. Dr hab. inż. Marta Kopaczyńska, prof. PWr, *Biofunctionalization of cardiovascular stents.*
10. Dr inż. Igor Buzalewicz, *Biomedical engineering and beyond - how engineers are playing with tissues and cells.*
11. Dr hab. inż. Magdalena Przybyło, prof. PWr, *Liposomes for delivery of biologically active compounds.*
12. Dr hab. inż. Sławek Drobczyński, prof. PWr, *Optical micromanipulation of living cells.*
13. Prof. Artur Podhorodecki, *Colloidal Nanostructures – high-resolution fluorescence imaging methods and inorganic nanomaterials for biomedical applications.*