

**May 29, 2024**

## **Session III**

# **ELECTRICAL ENGINEERING**

**Committee: doc. Ing. Miroslav Hagara, PhD. – chairman**  
**doc. Ing. Elemír Ušák, PhD.**  
**Ing. Štefan Čerba, PhD.**

## **09:00 - 11:00**

- 1. Power Limit Adjustment during Bulk Current Injection (BCI) Testing**  
Martin Gabrišák, Mikuláš Bittera and Jozef Hallon (ÚE)
- 2. Lithium-based batteries state of charge estimation methods and their impact on the operation of battery storage systems**  
János Kurcz, Jaroslav Longauer, Ján Poničan and Vladimír Šály (ÚEAE)
- 3. Software for analysis of ionizing radiation measurement data from PADC track detectors**  
Vendula Filová, Branislav Vrban, Štefan Čerba, Jakub Lüley and Vladimír Nečas (ÚJFI)
- 4. Radiation Load Optimization: Simulation Integration & Shielding Designs for D-D Neutron Generator at STU**  
Otto Glavo, Branislav Vrban, Štefan Čerba, Jakub Lüley, Vendula Filová and Vladimír Nečas (ÚJFI)
- 5. Design of a purpose-built ECG signal generator**  
Erik Foltán, Ľuboš Černaj, Michal Mičjan, Erik Vavrinský, Helena Kosnáčová and Diana Viťazková (ÚEF)
- 6. Simulation of Ventricular Activation in a Patient with PVC Using Computer Modeling Based on a Bidomain Reaction-Diffusion Model**  
Lukáš Zelieska, Elena Cocherova and Milan Tyšler (ÚEF)
- 7. Optimizing metallization time for enhanced deposition of co-activated nanosized nickel hydroxide onto substrate surfaces for supercapacitor electrodes**  
Oleksandra Zima, Miroslav Mikolášek, Vadym Kovalenko and Valerii Kotok (ÚEF)

## **14:00**

**Announcement of award-winning papers (Lecture Hall BC-150)**