

Wednesday 16.11.2022	
14:00-14:45	Conference opening Non-linearity and time variance in samples Zbigniew Karkuszewski Instytut Fotonowy
14:45-15:30	How does solar cell really work? prof. Robert Alicki University of Gdańsk, Poland
Coffee junction	
15:45-16:30	How to and not to measure bandgap? prof. Wojciech Macyk Jagiellonian University, Poland
16:30-17:15	Introduction to electrical transport theory in nanoscale systems prof. Krzysztof Byczuk Warsaw University, Poland
17:15-18:00	Photoelectrochemical cells - stability and performance issues. Measurements of energy conversion efficiency. dr Krzysztof Bieńkowski Warsaw University, Poland
19:00-23:00	Banquet

Thursday 17.11.2022	
9:00-10:30	<p>Photoelectric Spectrometer Workshop</p> <p>Experimental setup preparation and calibration. Sample preparation and mounting. Experimental procedures: photocurrent measurements, I-V curves, Open Circuit Potential, Quantum Efficiency (IPCE), 3-D action maps. Data interpretation.</p> <p>Zbigniew Karkuszewski Instytut Fotonowy</p>
Coffee junction	
10:45-12:15	<p>Kelvin Probe Workshop</p> <p>Experimental setup preparation and calibration. Sample preparation and mounting. Experimental procedures: Contact Potential Difference (CPD), Work Function. Data interpretation.</p> <p>Zbigniew Karkuszewski Instytut Fotonowy</p>
Lunch	
14:00-14:45	<p>Unexpected effect in work function measurements of semiconductors</p> <p>dr Joanna Kuncewicz Jagiellonian University, Poland</p>
14:45-15:30	<p>Difference between metal and semiconductor work functions</p> <p>Zbigniew Karkuszewski Instytut Fotonowy</p>
Coffee junction	
15:45-16:30	<p>Hybrid Photoelectrochemical Systems Based on TiO₂ Nanostructures</p> <p>dr Miloš Krbal University of Pardubice, Czech Republic</p>
16:30-17:15	Participant Q&A session
17:30-19:00	Poster session

Friday 18.11.2022	
9:00-10:30	<p>IMPS/IMVS + Mini Photoelectric Spectrometer Workshop</p> <p>Experimental setup preparation and calibration. Sample preparation and mounting. Experimental procedures: photocurrent measurements, I-V curves, Open Circuit Potential, Quantum Efficiency (IPCE), 3-D action maps. Data interpretation.</p> <p style="text-align: center;">dr Piotr Chomiuk Instytut Fotonowy</p>
Coffee junction	
10:45-12:15	<p style="text-align: center;">Impedance Camera Workshop</p> <p>Introduction to Time-Resolved Impedance Spectroscopy, Linear Time-invariant (LTI) systems. Experimental procedure. Data interpretation.</p> <p style="text-align: center;">Zbigniew Karkuszewski Instytut Fotonowy</p>
Lunch	
14:00-14:45	<p style="text-align: center;">Introduction to IMPS/IMVS</p> <p style="text-align: center;">prof. Jakub Rysz Jagiellonian University, Poland</p>
14:45-15:30	<p style="text-align: center;">Non-linear responses in IMPS/IMVS techniques and introduction to higher harmonic analysis</p> <p style="text-align: center;">Adrian Olejnik Institute of Fluid-Flow Machinery Polish Academy of Sciences, Poland</p>
Coffee junction	
15:45-16:30	<p style="text-align: center;">Application of TR-EIS to track fast hydration processes of cements</p> <p style="text-align: center;">dr Andrzej Kruk Pedagogical University of Krakow, Poland</p>
16:30-17:15	<p style="text-align: center;"><i>Cold fusion experiments are coming back</i></p> <p style="text-align: center;">Konrad Łojek Instytut Fotonowy</p>
17:15-17:30	<p style="text-align: center;">Closing remarks</p>