



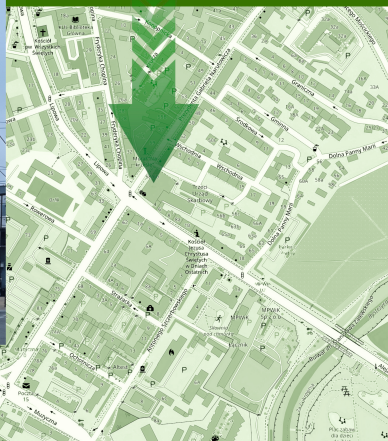
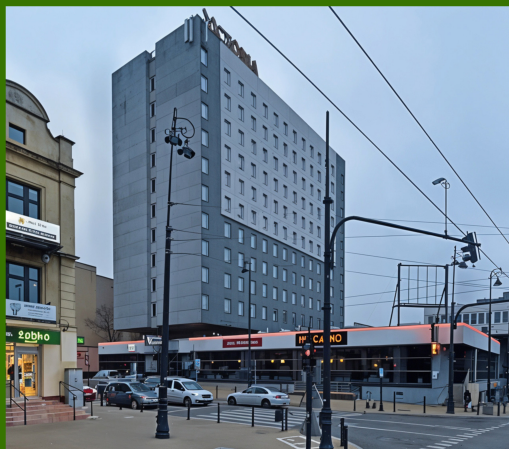
11th International Conference

September 12-15, 2024

Electromagnetic Devices
and Processes
in Environment Protection

Lublin
VICTORIA Hotel

Conference Program



9⁰⁰ – 10⁰⁰ Registration

10¹⁵ – 11¹⁵ Opening session

11³⁰ – 12³⁰ Anniversary session: "60th anniversary of Faculty of Electrical Engineering and Computer Science of Lublin University of Technology" and 30th anniversary of ELMECO Conference.

12³⁰ – 14⁰⁰ Lunch

ORAL SESSION 1 (KENJI EBIHARA, HENRYKA DANUTA STRYCZEWSKA)

14⁰⁰ – 14²⁰ O1 BARTEK GŁOWACKI, Decentralised energy infrastructure integrated with superconductivity, hydrogen and natural gas



14²⁰ – 14⁴⁰ O2 MARIUSZ STĘPIEŃ, Recent development of HTS large scale applications for energy transition



15⁰⁰ – 15²⁰ O3 WALID HELOU, Overview of the high power continuous-wave Ion Cyclotron Range of Frequencies system of the ITER tokamak



15²⁰ – 15⁴⁰ O4 UMANAND LOGANATHAN, Energy internet - the next generation smart grid



15⁴⁰ – 16⁰⁰ O5 OLEKSIH GIRKA, The high voltage RF resonator test facility for the new vacuum feedthrough of the ASDEX Upgrade ICRF antennas



16⁰⁰ – 16³⁰ Coffee break

ORAL SESSION 2 (MAKIKO KOBAYASHI, OLEKSANDR BOIKO)

16³⁰ – 16⁵⁰ O6 AGNIESZKA ŁĘKAWA-RAUS, Functional electronic materials based on wood, carbon nanotubes, and graphene



16⁵⁰ – 17¹⁰ O7 ALEKSANDER VAHL, Via bottom-up synthesis of nanoobjects and nanocomposites towards brain-inspired electronics












17¹⁰ – 17³⁰ O8 DANIIL NIKITIN, Gas-aggregated nanoparticles and where to apply them: from optics to neuromorphic science



17³⁰ – 17⁵⁰ O9 ZBIGNIEW KOŁACIŃSKI, How to destroy cancer cells with nanotechnology?



19⁰⁰ – 21³⁰ Dinner

ORAL SESSION 3 (MARISUZ STEPIEŃ, WALID HELOU)				
Friday, 13/09/24	9 ⁰⁰ – 9 ²⁰	O10	KENJI EBIHARA, Ozone nano-mist generation by dielectric barrier discharges and automatic remote insect pest disinfection system in agriculture	
	9 ²⁰ – 9 ³⁵	OL1	THAN NU NU SAN, Visualization and Calibration Free Quantification of Two-Dimensional Sound Pressure Distribution with Optical Wave Microphone CT Scanning	
	9 ³⁵ – 9 ⁵⁰	OL2	HTET LIN AUNG, Estimation the direction of arrival sound source using optical wave microphone and raspberry pi camera module	
	9 ⁵⁰ – 10 ⁰⁵	OL3	SI THU HAN, Phase distribution of acoustic pressure visualized by optical wave microphone within the distance of one-cycle wavelength of acoustic wave	
	10 ⁰⁵ – 10 ²⁰	OL4	NWAY HTET HTET MYO, Synchronized Investigation of pressure wave influence on atmospheric pressure plasma jet and plasma-induced liquid flow using optical wave microphone and high-speed camera	
	10 ²⁰ – 11 ⁴⁰	Poster session (Mariusz Najgebauer, Shin-ichi Aoqui)+ coffee break		
	ORAL SESSION 4 (UMANAND LOGANATHAN, ZBIGNIEW KOŁACIŃSKI)			
	11 ⁴⁰ – 12 ⁰⁰	O11	ANDRZEJ DEMENKO, Development of Methods for Modeling Low-Frequency Electromagnetic Field	
	12 ⁰⁰ – 12 ²⁰	O12	NATALIIA ISTOMINA, Multi-agent simulation of switched reluctance motors	
	12 ²⁰ – 12 ⁴⁰	O13	DARIUSZ ZIELIŃSKI, Eliminating the current pulsations at the terminals of electrochemical energy storage during the asymmetrical operation of a 4-wire converter	
12 ⁴⁰ – 13 ⁰⁰	O14	WOJCIECH JARZYNA, Improving the efficiency of a three-phase transformer with a 4-wire DC/AC converter for voltage symmetry in asymmetrical networks with PV sources		
13 ⁰⁰ – 14 ⁰⁰	Lunch			
14 ³⁰ – 18 ⁰⁰	Excursion #1			
19 ⁰⁰ – 24 ⁰⁰	Gala dinner			

ORAL SESSION 5 (AGNIESZKA ŁĘKAWA-RAUS, MASA AKI YAMAZATO)

9⁰⁰ – 9²⁰ O15 MAKIKO KOBAYASHI, Sol-Gel Composite Material Development for Energy Harvesting



9²⁰ – 9³⁵ OL5 SEIRYU UEDA, Proposal for Security System using Optical Wave Microphone with long-distance laser beam



9³⁵ – 9⁵⁰ OL6 RYOTA ONO, Wearable Piezoelectric Microphone Using Sol-Gel Composite



9⁵⁰ – 10⁰⁵ OL7 YUKINO TOKUSHIGE, Effect Of Mixing Ratios On Different Grain Sizes in Pb(Zr,Ti)O₃/ Pb(Zr,Ti)O₃



10⁰⁵ – 10²⁰ OL8 MAKO NAKAMURA, Nitrogen Spray Corona Discharge Method for Poling under High Humidity



10²⁰ – 10³⁵ OL9 VOLODYMYR HERA, Research of dependences of engine oil viscosity on electrical parameters for quality control in a cyber-physical measurement system



10³⁵ – 11⁰⁰ Coffee break

ORAL SESSION 6 (OLEKSII GIRKA, PAWEŁ SURDACKI)

11⁰⁰ – 11²⁰ O17 MASA AKI YAMAZATO, Antibacterial properties of iodine-doped amorphous carbon films



11²⁰ – 11⁴⁰ O18 SHINI-CHI AOQUI, Observation of Seed Condition Change by Atmospheric Pressure Plasma Irradiation



11⁴⁰ – 12⁰⁰ O19 MARIUSZ NAJGEBAUER, Pro-ecological aspects of soft magnetic material applications



12⁰⁰ – 12²⁰ O20 OLEKSANDR BOIKO, Key factors enhancing the electrical properties of nanofluids. A mini-review of the applications in the energy-related sectors



12²⁰ – 13³⁰ Lunch

15⁰⁰ – 16¹⁵ Session in Lublin Scientific Society: KRZYSZTOF KLUSZCZYŃSKI, Reflective lecture and piano concert *Modelling, Simulation and Music*



16¹⁵ – 17³⁰ Excursion #2 (Old City)

17³⁰ – 18³⁰ Visiting of Perla Brewery and local beverages testing

Sunday, 15/09/24 09⁰⁰ – 10⁰⁰ CS CLOSING SESSION

10⁰⁰ – 11⁰⁰ RF REFRESHMENTS