

Monday (24.06.2024)

9:00-10:00 Registration

10:00-10:15 Welcome

10:15-11:00 Invited lecture - Krzysztof Abramski Photonics began with the laser

11:00-11:30 Coffee break

11:30-13:10	I session	Gas Sensors (1)	Chair: Katarzyna Zakrzewska
11:30-11:50	Łukasz Sterczewski	Chip-based frequency combs for spectroscopic sensing at long wavelengths	
11:50-12:10	Grzegorz Dudzik	A novel approach to optical gas sensing utilizing laser spectroscopy	
12:10-12:30	Tomasz Grzebyk	From a miniature vacuum pump to a family of high vacuum MEMS devices	
12:30-12:50	Julian Elier	Micro-hotplate hydrogen sensor operated by the 3-omega method	
12:50-13:10	Joanna Banaś-Gac	Surface and interface engineering towards gas sensing devices based on multilayered copper oxide thin films	
13:10-14:00	Lunch		

14:00-15:20	II session	Bio/chem Sensors (1)	Chair: Patrycja Śniadek
14:00-14:20	Nina Szczotka, Aleksandra Motyka	Comprehensive solution for sensors, micro, and nanosystems	
14:20-14:40	Artur Dybko	Cartridge for paper-based chemical sensors	
14:40-15:00	Wojciech Kubicki	3D printed microfluidic lab-on-a-disk for centrifugal droplet generation	
15:00-15:20	Tymon Janisz	3D printed biocompatible ball check valve	
15:20-15:45	Coffee break		

15:45-17:05	III session	Bio/chem Sensors (2)	Chair: Piotr Jasiński
15:45-16:05	Justyna Kornicka	Transdermal drug delivery technology using a microneedle patch combined with diagnostics for use in veterinary medicine.	
16:05-16:25	Anna Kusior	New insights in neurotransmitter sensing: nanomaterial-based non-enzymatic approaches	
16:25-16:45	Maciej Dudzik, Konrad Segelyn	The impact of Ag deposition on SPR-based optical sensors	
16:45-17:05	Robert Bogdanowicz	Electrochemical Detection of Herbicides in Environmental Samples Using Boron-Doped Diamond/Graphene Electrodes	
19:00-21:00	boat cruise on the Oder, meeting place H-14		

Tuesday (25.06.2024)

9:00-9:15 Welcome

9:15-10:00 Invited lecture - Jan Dziuban Progress in miniaturization of space instruments

10:00-12:00	IV session	Sensors for Space Exploration	Chair: Jan Dziuban
10:00-10:30	Piotr Orleański (keynote)	New Space czyli nowe podejście do elektroniki kosmicznej	
10:30-11:00	Hanna Rothkaehl (keynote)	Benefits for space science and applications from innovative tools and sensors, based on in situ space plasma diagnostics	
11:00-11:20	Piotr Szyszka	Miniature MEMS Quadrupole Mass Spectrometer (mQMS) for Space Applications	

11:20-11:40	Patrycja Śniadek	Lab-payload for the autonomous biological satellite (LabSat)
11:40-12:00	Paweł Knapkiewicz	Why Europe needs its own miniature atomic time reference
12:00-12:30	coffee break	
12:30-13:50	V session	MEMS Chair: Andrzej Dziedzic
12:30-12:50	Michał Krysztof	Research on development of vacuum electron beam MEMS devices
12:50-13:10	Paweł Urbański	World's first x-ray source made entirely of MEMS technology
13:10-13:30	Grzegorz Kołasczyński	Assessment of the human body stability during walking using an inertial measurement unit
13:30-13:50	Tomasz Kabala	Smart transducers for use in aviation laboratories
13:50-14:40	Lunch	
14:40-16:00	Posters and networking	
16:30-18:30	meeting of PTTS members	
19:30-21:30	gala dinner "Przystań i Marina"	

Wednesday (26.06.2024)

9:00-9:15	Welcome	
9:15-10:00	Invited lecture - Jan Kołodyński	Quantum sensors operated in real time
10:00-11:30	VI session	Novel Technologies and Applications Chair: Tomasz Grzebyk
10:00-10:30	Andrzej Dziedzic (keynote)	Planar thermocouples, thermopiles and thermoelectric microgenerators
10:30-10:50	Wiesław Jakubik	Humidity sensing with rr-P3HT polymer films in LiNbO ₃ 128° Y-X SAW sensor platform
10:50-11:10	Wiktoria Weichbrodt	Selected methods of modifying the gasochromic properties of WO ₃ thin films
11:10-11:30	Jędrzej Kowalewski	A new approach to hyperspectral system design - selected case studies
11:30-12:00	coffee break	
12:00-12:45	Invited lecture - Eduard Llobet	Synthesis and functionalization of transition metal dichalcogenides for gas sensing applications
12:45-15:35	VII session	Gas Sensors (2) Chair: Eduard Llobet
12:45-13:15	Katarzyna Zakrzewska (keynote)	Low temperature performance of resistive-type gas sensors based on metal oxide semiconductors - a review
13:15-13:35	Michał Mazur	Gasochromic phenomenon in metal oxide thin films based on the comprehensive analysis of the optical studies
13:35-13:55	Paweł Pasierb	ABO ₃ protonic conductors for gas sensing applications
13:55-14:15	Ewa Mańkowska	Hydrogen gas sensing properties of p-type CuTiOx thin films
14:15-14:35	Paulina Kapuścik	Analysis of gas sensing properties of thin film coatings based on cerium oxides
14:35-14:45	Ending ceremony	
14:45-15:35	Lunch	