

**PROGRAMME OF MINDLAB ON FUNCTIONAL MATERIALS AND 19TH WORKSHOP
ON MOLECULAR ACOUSTICS, RELAXATION AND CALORIMETRIC METHODS**

MindLab on Functional Materials and 19th Winter Workshop on
Molecular Acoustics, Relaxation and Calorimetric Methods



Szczyrk, 26 February – 29 February 2024

26.02.2024 Monday	
14:00	<i>Lunch</i>
15:00-15:10	OPENING CEREMONY of the Conferences 18th IOS'2024 51st WSEAV 52nd WSWQA
15:10-16:00	JUBILEE OF PROF. WIESŁAW WOLIŃSKI AND PROF. ANTONI ŚLIWIŃSKI
15:10-16:00	<i>Addresses and speeches</i>
16.00 – 17.00	<i>Coffee Break</i>
17.00 – 18.30	JUBILEE PLENARY SESSION
17.00 – 17.30	<i>Plenary lecture of IOS Conference</i> Photonic integrated circuits – on the road from telecom to sensing R. PIRAMIDOWICZ, S. STOPIŃSKI, K. ANDERS, A. JUSZA, A. PAŚNIKOWSKA, M. LELIT, A. POŁATYŃSKI, A. BIENIEK-KACZOREK, A. KAŹMIERCZAK, M.A. BUTT, P. WIŚNIEWSKI, M. SŁOWIKOWSKI, M. JUCHNIEWICZ, K. PAVŁOV, K. PIERŚCIŃSKI, D. PIERŚCIŃSKA, J. JUREŃCZYK, M. LIEBERT
17.30 – 18.00	<i>Plenary lecture of WSWQA Conference</i> The essence of a pulse compression and SAW technology application for signal processing in a modern radar systems <u>A. KAWALEC</u>
18.00 – 18.30	<i>Plenary lecture of WSEAV Conference</i> Advancements in Computational Techniques for Analyzing Aircraft Noise: Addressing Challenges and Refining Models A. CHYLA, O. ZAPOROZHETS, A. NOWOŚWIAT, <u>M. BUKAŁA</u>
18:30-19:30	<i>Supper</i>
19:30	MUSIC GLANCE

27.02.2024 Tuesday	
8:00	<i>Breakfast</i>
13:00	<i>Lunch</i>
	SESSION
14:00-14:45	Covalent organic frameworks – a bridge between soft and crystalline semiconductors D. PEREPICHKA
14:45-15:30	Tuning energy levels in π-conjugated homopolymers by side-chain functionalization: donor-acceptor interactions between the backbone and side groups I. PEREPICHKA
15:30-16:00	(Electro)chemically deposited organic photosensitizers as light-activated antimicrobial coatings A. BLACHA-GRZECHNIK
16:00-16:30	<i>Coffee break</i>
16:30-17:00	Functionalization of metal-organic frameworks for proton conduction D. MATOGA
17:00-17:30	The impact of structural modification on electrochromic and electroluminescent properties of thiophene/benzothiadiazole D-A-D derivatives S. PLUCZYK-MAŁEK, R. GANCZARCZYK, R. RYBAKIEWICZ-SEKITA, M. ZAWADZKA, P. PANDER P. LEDWOŃ, D. NASTULA
17:30-17:45	Dimensional scan of IoNanoFluid stability – from 0D to 3D nanocarbons in ionic liquids S. RUCZKA, R. JĘDRYSIAK, S. BONCEL
17:45-18:00	Infrared electrochromic properties of the s-tetrazine derivative D. NASTULA, S. PLUCZYK-MAŁEK, A. BLACHA-GRZECHNIK, P. WAGNER
20:00	<i>Festive Supper</i>

28.02.2024 Wednesday	
8:00	<i>Breakfast</i>
13:00	<i>Lunch</i>
14:00-19:00	SESSION
14:00-14:50	Thermal management and storage through smart materials L. VALLESE, G. LOMBARDO, D. MENEGAZZO, S. BORDIGNON, M. DE CARLI, G. FERRARINI, S. BOBBO, F. AGRESTI, S. BARISON, A.A. AYDIN, H. JAVADI, B. BADENES, J.F. URCHUEGUÍA, Z. URE, M. BOTTARELLI, S. CESARI, E. BACCEGA, <u>L. FEDELE</u>
14:50-15:20	From functionalization to functionality – physicochemistry of nanocarbons toward applications S. BONCEL
15:20-15:50	Comparison and characterization of different methods of carbon nanotubes functionalization <u>A. KOLANOWSKA</u> , S. BONCEL, M. DZIDA
15:50-16:10	Low-viscosity ionanofluids with remarkable thermal conductivity – the latest developments in ionanofluids <u>K. CWYNAR</u> , A. KOLANOWSKA, S. BONCEL, M. DZIDA
16:10-16:30	A critical overview of literature data on the isobaric heat capacity of ionanofluids <u>K. KACZMAREK</u> , K. CWYNAR, M. MUSIAŁ, A. TARGIEL, E. ZORĘBSKI, M. DZIDA
16:30-17:00	<i>Coffee break</i>
17:00-17:30	Exploring the relationship between crystal structure and the properties of organic materials C.E.S. BERNARDES
17:30-18:00	Charge, polar, and nonpolar interactions - theoretical approach M. MAKOWSKI
18:00-18:30	Nanoparticles in complex advanced materials – an introduction to nanofluids G. ŻYŁA
18:30-19:00	Structural, spectroscopic and thermophysical studies of ionanofluids composed of long multi-walled carbon nanotubes and pyrrolidinium-based ionic liquid <u>M. DZIDA</u> , S. BONCEL, B. JÓŻWIAK, H. F. GREER, M. DULSKI, A. GOLBA, R. FLAMHOLC, G. DZIDO, J. DZIADOSZ, A. KOLANOWSKA, R. JĘDRYSIAK, Ł. SCHELLER, K. CWYNAR, E. ZORĘBSKI, C.E.S. BERNARDES, M.J.V. LOURENÇO, C.A. NIETO DE CASTRO
19:00-20:00	<i>Supper</i>

20:00	<p style="text-align: center;">POSTER SESSION</p> <p>Black gold – how to improve the service life of a key element in the synthesis of multi-walled carbon nanotubes, such as a quartz tube?</p> <p style="text-align: center;">R. <u>JĘDRYSIAK</u>, S. RUCZKA, A. KOLANOWSKA, S. BONCEL</p>
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29.02.2024 Thursday	
8:00	<i>Breakfast</i>