## INTERM 2023 10<sup>th</sup> INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

# BIOMATSEN 2023 8<sup>th</sup> INTERNATIONAL CONGRESS ON BIOMATERIALS & BIOSENSORS

### NANOMACH 2023 4<sup>th</sup> INTERNATIONAL CONFERENCE ON NANOMATERIALS, NANOFABRICATION AND NANOCHARACTERIZATION

# INTERPHOTONICS 2023 5<sup>th</sup> INTERNATIONAL CONFERENCE ON PHOTONICS RESEARCH

APRIL 13-19, 2023

Liberty Hotels Lykia, Oludeniz MUGLA / TURKEY

 

 TENTATIVE P R O G R A M TUESDAY, APRIL 11, 2023

 14:00-16:30
 REGISTRATION FOR EARLY ARRIVALS (14:00 Check-in)

**TENTATIVE** P R O G R A M

WEDNESDAY, APRIL 12, 2023	
9:00-16:30	REGISTRATION (14:00 Check-in)
Everyday Tours	SOCIAL PROGRAM • Saklıkent Jeep Safari • Paragliding in Oludeniz

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	TENTATIVE P R O G R A M		
	THURSDAY, APRIL 13, 2023		
	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS		
	HALL 1		
_	Chairperson: A.Yavuz Oral		
:NARY SESSI 10:30-11:15	Josop Negués		
<b>Υ S</b> 7-1.	Josep Nogués		
<b>IAR</b> 0:3(	Catalan Institute of Nanoscience and Nanotechnology, Spain		
PLENARY SESSION 10:30-11:15	"Magnetoplasmonic nanodomes as a novel structure for biomedical applications"		
11:15- 11:30	COFFEE BREAK		
11.50			
_	Chairperson: A.Yavuz Oral		
N N N	Hendrick C. Swart		
:15	University of the Free State, South Africa		
PLENARY SESSION 11:30-12:15	Onversity of the free state, south Anta		
<b>AR'</b> 1:30			
- <b>EN</b>	"Applications of AES, XPS and TOF SIMS to phosphor nanomaterials"		
L L			

12:30- 14:00	LUNCH	
	INTERM & INTERPHOTONICS HALL 1 Chairperson: Josh Davies-Jones	BIOMATSEN & NANOMACH HALL 2 Chairperson: Izabela Kuryliszyn-Kudelska
PARALLEL SESSIONS 14:00-16:30	<ul> <li>14:00-14:30</li> <li>Josh Davies-Jones</li> <li>Cardiff Catalysis Institute, UK</li> <li>Invited speaker</li> <li>ID684- Imaging the Nanoscale World of Life: A Biophysical Approach to Studying Microbes, Stem Cells, and Antibiotic Resistance</li> <li>14:30-15:00</li> <li>Victor Pavlov</li> <li>Ioffe Institute, the Russian Academy of Sciences, Russian Federation</li> <li>Invited speaker</li> <li>ID700- Unusual magneto-optics of europium chalcogenide magnetic semiconductors</li> <li>15:00-15:30</li> <li>Christian Andreasen</li> <li>University of Copenhagen, Denmark</li> <li>Invited speaker</li> <li>ID638- Weed control with a 2 μm fiber laser: How does the laser beam affect non-target organisms?</li> <li>15:30-16:00</li> <li>Ewa Mijowska</li> <li>West Pomeranian University of Technology, Poland</li> <li>Invited speaker</li> <li>ID688- Solid wastes recycling into hierarchical porous carbon materials for supercapacitors – microscopic and spectroscopic study</li> <li>16:00-16:30</li> <li>Irena Kostova</li> <li>Medical University-Sofia, Bulgaria</li> <li>Invited speaker</li> <li>ID696- Theoretical DFT and vibrational (IR and Raman) characterization of biologically active lanthanide(III) complexes</li> </ul>	14:00-14:30 Izabela Kuryliszyn-Kudelska Institute of Physics Polish Academy of Sciences, Poland Invited speaker ID822- Magnetic semiconductor nanocrystals based on oxide compounds 14:30-14:50 Klaudia Maslana West Pomeranian University of Technology in Szczecin, Poland ID819- Cellulose-based electrocatalysts for water splitting 14:50-15:10 Olga Hendrikson Russian Academy of Sciences, Russian Federation ID406-Immunochromatographic test systems for rapid and sensitive detection of phycotoxins

19:30-21:30

#### DINNER WITH ALL PLENARY SPEAKERS

(INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS)

TENTATIVE P R O G R A M			
	FRIDAY, APRIL 14, 2023		
	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS		
	HALL 1		
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral		
11:15- 11:30	COFFEE BREAK		
PLENARY SESSION 11:30-12:15	Chairperson: A.Yavuz Oral Sanjairaj Vijayavenkataraman New York University Abu Dhabi, United Arab Emirates "Eco-friendly Bioinks for 3D Bioprinting of Soft Tissues"		
12:30- 13:15	LUNCH		
13:15-18:00	SOCIAL PROGRAM 13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS (Gathering at Congress registration desk)		
19:30-21:30	DINNER WITH BIOMATSEN INVITED SPEAKERS		

	TENTATIVE P R O G R A M	
	SATURDAY, APRIL 15, 2023	
	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
	HALL 1	
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral	

11:15- 11:30	COFFEE BREAK		
11.50	Chairperson: A.Yavuz Oral		
PLENARY SESSION 11:30-12:15		<b>Naceur Belgacem</b> sity Grenoble Alpes, CNRS, Grenoble INP, LGP2 ulose as substrate for active surfaces: Theory a	
12:30- 14:00	LUNCH		
	INTERM	<b>BIOMATSEN &amp; NANOMACH</b>	INTERM & INTERPHOTONICS
	HALL 1	HALL 2	HALL 3
	Chairperson: Günther Rupprechter	Chairperson: <b>Zhandos Tauanov</b>	Chairperson: Marek Godlewski
PARALLEL SESSIONS 14:00-16:30	14:00-14:30 Günther Rupprechter TU Wien, Austria Invited speaker ID653 Correlative in situ surface microscopy of rhodium catalyzed hydrogen oxidation 14:30-15:00 Sergey Katsyuba Arbuzov Institute of Organic and Physical Chemistry, Russian Federation Invited speaker ID665 Computational modeling of condensed-state infrared and Raman vibrational spectra as a tool for analysis of molecular and supramolecular structure of liquids, amorphous solids and their solutions 15:00-15:30 Takuya Matsumoto Osaka University, Japan Invited speaker ID678- Time-Resolved Charge Observation by Tip-Synchronized Electrostatic Force Microscopy 15:30-15:50 Tomoki Misaka Osaka University, Japan ID702- EFM/KPFM measurement of plasmon-induced charge separation on Au nano-particle/ TiO2 interface 15:50-16:10 Elena Kozlova Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russian Federation ID649- Comprehensive study of red blood cell pathologies using atomic force microscopy 16:10-16:30 Klaudia Zielinkiewicz West Pomeranian University of Technology, Poland ID669- Ball milling as facile route for borophene nanoflakes fabrication	14:00-14:30 Zhandos Tauanov LLP "Scientific Production Technical Center "Zhalyn", Kazakhstan Invited speaker ID791- Rice husk derived synthetic zeolites and nanocomposites: synthesis and characterization 14:30-14:50 Zhandos Tauanov LLP "Marmar Kazakhstan", Kazakhstan ID442- Antimicrobial Properties of the Triclosan-Loaded Polymeric Composite Based on Unsaturated Polyester Resin: Synthesis, Characterization and Activity 14:50-15:20 Benjamin Burton Xxx, USA Invited speaker ID825- First Principles Studies 2D Mo(S,Te)2 alloys adsorbed on Sapphire and Graphite, and sandwiched between Graphene layers, and 2D (AL,Sc)N alloys on Sapphire	14:00-14:30 Marek Godlewski Polish Academy of Sciences, Poland Invited speaker ID636- Fluorescent Markers For Early Detection Of Cancer 14:30-15:00 Ludmil T. Benov Kuwait University, Kuwait Invited speaker ID646- Site-specific delivery of photo-generated cytotoxic species 15:00-15:30 Mahmoud Huleihel Ben-Gurion University (BGU), Israel Invited speaker ID675- Rapid Identification and Antibiotics Susceptibility determination of Bacteria Isolated Directly from Patients' Urine Samples by Infrared Spectroscopy in Tandem with Machine Learning 15:30-16:00 Ahmad Salman SCE-Sami Shamoon College of Engineering, Israel Invited speaker ID674- Monitoring the Response of the Immune System by Infrared Spectroscopy-Based Machine-Learning algorithms for Rapid Diagnosis of the Etiology of Patients' Infections as Bacterial or Viral 16:00-16:30 Czesława Paluszkiewicz Institute of Nuclear Physics Polish Academy of Sciences, Poland Invited speaker ID688- Spectroscopic methods in the study of the influence of amino acids on the corrosion process of materials used for implants

16:30- 16:40	COFFEE BREAK
16:40- 17:40	FOYER (Poster Session Area)         Chairperson: A. Yavuz Oral         POSTER SESSION         INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS
19:30-21:30	DINNER WITH INTERPHOTONICS INVITED SPEAKERS

	TENTATIVE P R O G R A M	
	SUNDAY, APRIL 16, 2023	
	HALL 1	
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral Wuge H Briscoe University of Bristol, UK "Self-assembly and interactions of bacterial lipids"	
11:15- 11:30	COFFEE BREAK	
PLENARY SESSION 11:30-12:15	Chairperson: A.Yavuz Oral Holger Klein Institut Néel, Université Grenoble Alpes & CNRS, France "Beam-sensitive nano-crystals: a double challenge for crystallographic structure solution"	
12:30- 13:15	LUNCH	
13:15-18:00	SOCIAL PROGRAM 13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND (Gathering at Congress registration desk)	
19:30- 21:30	DINNER WITH NANOMACH INVITED SPEAKERS	

TENTATIVE P R O G R A M				
	MONDAY, APRIL 17, 2023			
	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS			
	HALL 1			
PLENARY SESSION 10:30-11:15	Chairperson: A.Yavuz Oral			
11:15- 11:30	COFFEE BREAK			
	Chairperson: A.Yavuz Oral			
SSION :15	Biq	iong Chen		
<b>NARY SESSI</b> 11:30-12:15	Queen's Un	iversity Belfast, UK		
PLENARY SESSION 11:30-12:15	"Biomimetic elastomers and elastomer	nanocomposites for biomedical applications"		
12:30- 14:00	LUNCH			
	INTERM & INTERPHOTONICS	BIOMATSEN & NANOMACH		
	HALL 1	HALL 2		
	Chairperson: Denis Koume	Chairperson: Darya Alontseva		
PARALLEL SESSIONS 14:00-16:20	14:00-14:30 Denis Koume University of Toulouse, France Invited speaker ID660- Computational biomedical imaging: inverse problems 14:30-15:00 Søren Bredmose Simonsen Technical University of Denmark, Denmark Invited speaker ID693-Combining Impedance Spectroscopy with Environmental TEM for solid state electrochemical experiments 15:00-15:20 Radov Radeslav Lawrence Livermore National Laboratory, USA ID659- International standards for radiation protection instrumentation 15:20-15:40 Ekaterina Sherstyukova Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russian Federation ID647- Changes in RBCs under hypoxia: Spectrophotometry and AFM study 15:40-16:00 Oleg Boyarkine EPFL, Switzerland ID662- Identification of isomeric molecules by spectroscopy of non- covalent complexes 16:00-16:20 Viktoria Sergunova Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russian Federation ID647- Changes in RBCs under hypoxia: Spectrophotometry and AFM study	14:00-14:30 Darya Alontseva D. Serikbayev East Kazakhstan Technical University, Kazakhstan Invited speaker ID456- Additive manufacturing of orthopedic implants with microplasma sprayed hydroxyapatite coatings 14:30-15:00 Eilf Begum Elcioglu Eskisehir Technical University, Turkey Invited speaker ID832- Nanofluids: The State of the Art and Future Outlook 15:00-15:20 Vanja Kokol University of Maribor, Slovenia ID800- Antimicrobial nanocellulose-based porous microparticles as an alternative to toxic nano-biocides		

19:30-21:30

DINNER WITH INTERM INVITED SPEAKERS

	TENTATIVE P R O G R A M TUESDAY, APRIL 18, 2023
	Chairperson: A.Yavuz Oral
PLENARY SESSION 10:30-11:15	Sarper Ozharar NEC Laboratories America, Inc., USA ""
11:15- 11:30	COFFEE BREAK
	Chairperson: A.Yavuz Oral
PLENARY SESSION 11:30-12:15	<b>Francesco Branda</b> University of Naples "Federico II, Italy "Structure, Formation Mechanism and Impact on Fire Behavior of Nanoparticles Formed in Epoxy Matrix through the Solvent-Free One-Pot Process"
12:30- 13:15	LUNCH
13:15- 18:00	SOCIAL PROGRAM
	13:15-18:00 GHOST TOWN & BLUE LAGOON
	(Gathering at Congress registration desk)

TENTATIVE P R O G R A M	
WEDNESDAY, APRIL 19, 2023	
INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
HALL 1	

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	Chairperson: Lobat Tayebi
	10:00-10:30
0	Caglar Sivri
1:2	Bahçeşehir University, Turkey
0-1	Invited speaker
SESSIONS 10:00-11:20	ID695- Novel Perspectives in Microscopy of Nanofibrous Materials
SNC.	10:30-11:00
SIG	Lobat Tayebi
SES	Marquette University School of Dentistry, USA
	Invited speaker
PARALLEL	ID478 - VEGF Delivery in Tissue Engineering to be Applied for Angiogenesis of Critical-Sized Craniomaxillofacial Defects
PAI	11:00-11:20
	Jaroslaw Serafinczuk
	Wrocław University of Science and Technology, Poland
	ID640- High-resolution X-ray diffraction edge geometry for epitaxial nanostructures characterization
12:00	Hotel Check Out

PROGRAM LEGEND DESCRIPTIONS	
ID-	INTERM 2023 oral presentations
ID-	BIOMATSEN 2023 oral presentations
ID-	NANOMACH 2023 oral presentations
ID-	INTERPHOTONICS 2023 oral presentations