INTERM 2023 10th INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

BIOMATSEN 2023 8th INTERNATIONAL CONGRESS ON BIOMATERIALS & BIOSENSORS

NANOMACH 2023 4th INTERNATIONAL CONFERENCE ON NANOMATERIALS, NANOFABRICATION AND NANOCHARACTERIZATION

INTERPHOTONICS 2023 5th 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
REGISTRATION (14:00 Check-in)
SOCIAL PROGRAM • Saklıkent Jeep Safari • Paragliding in Oludeniz
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TENTATIVE PROGRAM THURSDAY, APRIL 13, 2023

	INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS		
	HALL 1		
_	Chairperson: A.Yavuz Oral		
PLENARY SESSION 10:30-11:15	Josep Nogués		
ARY 7:30-	Catalan Institute of Nanoscience and Nanotechnology, Spain		
PLEN.	"Magnetoplasmonic nanodomes as a novel structure for biomedical applications"		
11:15- 11:30	COFFEE BREAK		
	Chairperson: A.Yavuz Oral		
PLENARY SESSION 11:30-12:15	Hendrick C. Swart University of the Free State, South Africa		
PLEN.	"Applications of AES, XPS and TOF SIMS to phosphor nanomaterials"		

12:30- 14:00	LUNCH	
PARALLEL SESSIONS 14:00-15:30	INTERM & INTERPHOTONICS HALL 1 Chairperson: Josh Davies-Jones 14:00-14:30 Josh Davies-Jones Cardiff Catalysis Institute, UK Invited speaker ID684- Imaging the Nanoscale World of Life: A Biophysical Approach to Studying Microbes, Stem Cells, and Antibiotic Resistance 14:30-15:00 Victor Pavlov Ioffe Institute, the Russian Academy of Sciences, Russian Federation Invited speaker ID700- Unusual magneto-optics of europium chalcogenide magnetic semiconductors 15:00-15:30 Christian Andreasen University of Copenhagen, Denmark Invited speaker ID638- Weed control with a 2 µm fiber laser: How does the laser beam affect non-target organisms?	Chairperson: Izabela Kuryliszyn-Kudelska 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
15:30- 15:40	COFFEE BREAK	
30-	INTERM & INTERPHOTONICS	BIOMATSEN & NANOMACH
PARALLEL SESSIONS 15:30- 17:00	HALL 1 Chairperson: Ewa Mijowska 15:30-16:00	HALL 2
ARA	Ewa Mijowska	
Δ	West Pomeranian University of Technology, Poland	

	Invited speaker ID668- Solid wastes recycling into hierarchical porous carbon materials for supercapacitors – microscopic and spectroscopic study 16:00-16:30 Irena Kostova
	Medical University-Sofia, Bulgaria Invited speaker ID696- Theoretical DFT and vibrational (IR and Raman) characterization of biologically active lanthanide(III) complexes
	16:30-17:00 Nikita Kirsanov Terra Quantum AG, Switzerland Invited speaker ID651- End-To-End Line Control For Optical Quantum Key Distribution
19:30-21:30	DINNER WITH ALL PLENARY SPEAKERS (INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS)

	TENTATIVE PROGRAM
	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-	COFFEE BREAK
11:30	
	Chairperson: A.Yavuz Oral
PLENARY SESSION 11:30-12:15	Naceur Belgacem University Grenoble Alpes, CNRS, Grenoble INP, LGP2, Grenoble, France "Cellulose as substrate for active surfaces: Theory and applications"
12:30- 14:00	LUNCH

INTERM

HALL 1

Chairperson: Günther Rupprechter

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

INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

HALL 2

Chairperson: Zhandos Tauanov

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

15:20-15:50

Arcady Zhukov

University of Basque Country, UPV/EHU, Spain Invited speaker

ID474- Development of magnetic microwires for magnetic sensors applications

15:50-16:10

Masahiro Nakayama

Osaka University, Japan

ID685- Energy-level alignment of Ru complexes placed in multi-layers probed by frequency modulated EFM

16:10-16:30

Dmitry Kronberg

Terra Quantum AG, Switzerland

ID645- Quantum key distribution over global distances by using quantum thermodynamics restrictions

INTERM & INTERPHOTONICS

HALL 3

Chairperson: Marek Godlewski

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

 ${\it SCE-Sami Shamoon College of Engineering, Israel}\\$

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

COFFEE BREAK

16:30-16:40

FOYER (Poster Session Area)

16:40-17:40

Chairperson: A. Yavuz Oral

POSTER SESSION

INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

	TENTATIVE PROGRAM
	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	
PLENARY SESSION 11:30-12:15	Queen's Un	iversity Belfast, UK 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 14:00-15:30	14:00-14:30 Denis Koume University of Toulouse, France Invited speaker ID660- Computational biomedical imaging: inverse problems 14:30-14:50 Radov Radeslav Lawrence Livermore National Laboratory, USA ID659- International standards for radiation protection instrumentation 14:50-15:10 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 15:10-15:30 Oleg Boyarkine EPFL, Switzerland ID662- Identification of isomeric molecules by spectroscopy of noncovalent complexes	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 Elif 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
15:30- 15:40	COFFEE BREAK	

	INTERM & INTERPHOTONICS	BIOMATSEN & NANOMACH
	HALL 1	HALL 2
	Chairperson: Søren Bredmose Simonsen	Chairperson: Lobat Tayebi
PARALLEL SESSIONS 15:40-17:30	15:40-16:10 Søren Bredmose Simonsen Technical University of Denmark, Denmark Invited speaker ID693-Combining Impedance Spectroscopy with Environmental TEM for solid state electrochemical experiments 16:10-16:30 Viktoria Sergunova Federal Research and Clinical Center of Intensive Care Medicine and Rehabilitology, Russian Federation ID648- Using confocal laser scanning and atomic force microscopy to assess the effect of activators on neutrophils 16:30-16:50 Dmitri Atiakshin xxxx IDxxx - xx 16:50-17:10 Aleksei Kodukhov Terra Quantum AG, Switzerland ID653- Existing Qkd Protocols Enhancement via Continuous Monitoring of Artificial Leakages in the Transmission Line 17:10-17:30 Valeria Pastushenko Terra Quantum AG, Switzerland ID654- On the Security of a Long-Distance Quantum Key Distribution Protocol Utilizing Optical Amplifiers	15:40-16:10 Lobat Tayebi Marquette University School of Dentistry, USA Invited speaker ID478 - VEGF Delivery in Tissue Engineering to be Applied for Angiogenesis of Critical-Sized Craniomaxillofacial Defects 16:10-16:30 Alexander Spirov The Institute of Scientific Information for Social Sciences RAS, Russian Federation ID472- Development of new microdroplet microfluidic techniques for the in vitro evolution of macromolecular devices using numerical methods
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
INARY SESSION 10:30-11:15	Sarper Ozharar NEC Laboratories America, Inc., USA
PLENARY 10:30-	" XXX "
11:15- 11:30	COFFEE BREAK
	Chairperson: A.Yavuz Oral
PLENARY SESSION 11:30-12:15	Francesco Branda 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	AL 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			
PARALLEL SESSIONS 10:00-10:50	Chairperson: Caglar Sivri 10:00-10:30 Caglar Sivri Bahçeşehir University, Turkey Invited speaker ID695- Novel Perspectives in Microscopy of Nanofibrous Materials 10:30-10:50 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	