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				
7	Chairperson: A.Yavuz Oral				
SIOF					
SES:	Josep Nogués				
PLENARY SESSION 10:30-11:15	Catalan Institute of Nanoscience and Nanotechnology, Spain				
EN/					
<u> </u>	"Magnetoplasmonic nanodomes as a novel structure for biomedical applications"				
11:15-	COFFEE BREAK				
11:30	COTT EL BREAK				
	Chairperson: A.Yavuz Oral				
NO	Hendrick C. Swart				
ESSI 2:15	University of the Free State, South Africa				
KY SI 0-12					
NARY SESSI 11:30-12:15	WALL TO SAFE VEST TO SENSE.				
PLE	"Applications of AES, XPS and TOF SIMS to phosphor nanomaterials"				
PLENARY SESSION 11:30-12:15	"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?	BIOMATSEN & NANOMACH HALL 2 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	
S	INTERM & INTERPHOTONICS	INTERM & BIOMATSEN & NANOMACH
ALLEL SESSIONS 15:30-17:00	HALL 1 Chairperson: Ewa Mijowska	HALL 2 Chairperson: Nutthaya Butwong
PARALLEL 15:30	15:30-16:00 Ewa Mijowska West Pomeranian University of Technology, Poland Invited speaker	15:30-16:00 Nutthaya Butwong Rajamangala University of Technology Isan, Thailand

	Ic: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	Facial Cream 16:00-16:30 Luigi Santamaria Italian Space Agency, Italy ID679- Spatial demultiplexing imaging and spectroscopy
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
7	Chairperson: A.Yavuz Oral
PLENARY SESSION 10:30-11:15	
::1.	Naceur Belgacem
:NARY SESSI 10:30-11:15	University Grenoble Alpes, CNRS, Grenoble INP, LGP2, Grenoble, France
4R)	
10 10	"Cellulose as substrate for active surfaces: Theory and applications"
PLE	
11:15-	
11:30	COFFEE BREAK
	Chairperson: A.Yavuz Oral
_	
6 .	Wuge H Briscoe
PLENARY SESSION 11:30-12:15	University of Bristol, UK
SE -12	
RY 30	"Self-assembly and interactions of bacterial lipids"
NA 11:	
J.	
_	
12:30-	
14:00	LUNCH
17.00	

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

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- COFFEE BREAK

16:40

FOYER (Poster Session Area)

16:40-17:40

Chairperson: A. Yavuz Oral

POSTER SESSION

INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS

9:30-21:30	DINNER WITH INTERPHOTONICS INVITED SPEAKERS
.9:30-2	

	TENTATIVE P R O G R A M				
	SUNDAY, APRIL 16, 2023				
	HALL 1				
Z O	Chairperson: A.Yavuz Oral				
PLENARY SESSION 10:30-11:15	Thomas Webster Hebei University of Technology, China				
PLENAI 10:3	" A Review of Nanomaterials in Humans"				
11:15- 11:30	COFFEE BREAK				
	Chairperson: A.Yavuz Oral				
PLENARY SESSION 11:30-12:15	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				
ij	(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

5 5	Biqiong Chen			
NARY SESSI 11:30-12:15	Queen's University 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	INTERM & NANOMACH	
	HALL 1	HALL 2	HALL 3	
	Chairperson: Denis Koume	Chairperson: Darya Alontseva	Chairperson: Mariana Ionita	
	14:00-14:30	14:00-14:30	14:00-14:30	
	Denis Koume	Darya Alontseva	Mariana Ionita	
	University of Toulouse, France	D. Serikbayev East Kazakhstan Technical	University Politehnica of Bucharest, Romania	
	Invited speaker	University, Kazakhstan	ID839- Emerging strategies in bone	
	ID660- Computational biomedical imaging:	Invited speaker	regeneration	
30	inverse problems	ID456- Additive manufacturing of orthopedic		
[5:3		implants with microplasma sprayed	14:30-15:00	
0-1	14:30-14:50	hydroxyapatite coatings	Jules Thibault	
7:4	Radov Radeslav		University of Ottawa, Canada	
SESSIONS 14:00-15:30	Lawrence Livermore National Laboratory, USA	14:30-15:00	ID831- Predicting the gas permeability and	
6	ID659- International standards for radiation	Elif Begum Elcioglu	selectivity of mixed-matrix membranes	
SSI	protection instrumentation	Eskisehir Technical University, Turkey		
r SE		Invited speaker	15:00-15:30	
=	14:50-15:10	ID832- Nanofluids: The State of the Art and Future	Dehua Li	
PARALLE	Ekaterina Sherstyukova	Outlook	Shandong University of Science and	
ΡA	Federal Research and Clinical Center of Intensive		Technology, China	
	Care Medicine and Rehabilitology, Russian	15:00-15:20	ID706- Recognition of crude oil samples base	
	Federation	Vanja Kokol	on terahertz time-domain spectroscopy and	
	ID647- Changes in RBCs under hypoxia: Spectrophotometry and AFM study	University of Maribor, Slovenia ID800- Antimicrobial nanocellulose-based porous migropartials as an alternative to toxic page	principal component analysis	
	15:10-15:30	microparticles as an alternative to toxic nanobiocides		
	Oleg Boyarkine	bioliucs		
	EPFL, Switzerland			
	ID662 - Identification of isomeric molecules by			
	spectroscopy of non-covalent complexes			

	INTERM & INTERPHOTONICS	INTERM & BIOMATSEN & NANOMACH &
	HALL 1	INTERPHOTONICS
	TALL I	HALL 2
		HALL
	Chairperson: Søren Bredmose Simonsen	
		Chairperson: Lobat Tayebi
	15:40-16:10	15.40.16.10
	Søren Bredmose Simonsen	15:40-16:10
	Technical University of Denmark, Denmark	Lobat Tayebi Marquette University School of Dentistry, USA
	Invited speaker ID693-Combining Impedance Spectroscopy with	Invited speaker
	Environmental TEM for solid state	ID478 - VEGF Delivery in Tissue Engineering to be
	electrochemical experiments	Applied for Angiogenesis of Critical-Sized
	- Cook Control Conposition Control	Craniomaxillofacial Defects
	16:10-16:30	
	Viktoria Sergunova	16:10-16:30
	Federal Research and Clinical Center of Intensive	Alexander Spirov
	Care Medicine and Rehabilitology, Russian	The Institute of Scientific Information for Social
7:40	Federation	Sciences RAS, Russian Federation
)-17	ID648 - Using confocal laser scanning and atomic force microscopy to assess the effect of activators	ID472- Development of new microdroplet microfluidic techniques for the in vitro evolution
5:40	on neutrophils	of macromolecular devices using numerical
S 1.	on neutropinis	methods
	16:30-16:50	
SSI	Dmitri Atiakshin	16:30-16:50
SE	xxxx	Andrzej Kolek
PARALLEL SESSIONS 15:40-17:40	IDxxx - xx	Rzeszów University of Technology, Poland
RAL		ID637- Numerical simulations of electronic
PA	16:50-17:10	transport in type II superlattice device
	Aleksei Kodukhov	46 50 47 40
	Terra Quantum AG, Switzerland	16:50-17:10
	ID653- Existing Qkd Protocols Enhancement via Continuous Monitoring of Artificial Leakages in	Merve Metin Yurt
	the Transmission Line	Arcelik, Turkey ID671- Impact of Laser Surface Texturing in
	THE TRANSMISSION EITH	Sustainability at Homes: Improvements in Energy
	17:10-17:30	Efficiency for Tumble Dryer Machines
	Valeria Pastushenko	
	Terra Quantum AG, Switzerland	17:10-17:40
	ID654- On the Security of a Long-Distance	Uraib Sharaha
	Quantum Key Distribution Protocol Utilizing	Ben-Gurion University, Israel
	Optical Amplifiers	ID690- Rapid Characterization and Identification
		of Primary, Pre-Malignant, and Malignant Cells:
		Raman Spectroscopy-Based Machine Learning Algorithms
		Algorithms
0		
1:3		
19:30-21:30	DINNER WITH INTERM INVITED SPEAKERS	
9:3(
15		

INTERM & BIOMATSEN & NANOMACH &

INTERM & INTERPHOTONICS

TENTATIVE PROGRAM TUESDAY, APRIL 18, 2023 Chairperson: A.Yavuz Oral

11:15- 11:30	COFFEE BREAK
	Chairperson: A.Yavuz Oral
PLENARY SESSION 11:30-12:15	Sarper Ozharar NEC Laboratories America, Inc., USA " xxx "
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			
PARALLEL SESSIONS 10:00-11:20	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 Was about University of Science and Technology Belond		
	Wrocław University of Science and Technology, Poland ID640- High-resolution X-ray diffraction edge geometry for epitaxial nanostructures characterization		
	10:50-11:20 Rustem Zairov		
	Kazan (Volga region) Federal University, Russian Federation ID471- Lanthanide Chelate Nanoparticles as luminescent sensors		
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		