



THE *TENTATIVE* PROGRAM

INTERM 2026

BIOMATSEN 2026

NANOMACH 2026

SEMIMATER 2026



INTERM 2026
**13th INTERNATIONAL CONGRESS ON MICROSCOPY &
SPECTROSCOPY**
APRIL 2-8, 2026

BIOMATSEN 2026
**11th INTERNATIONAL CONGRESS ON BIOMATERIALS &
BIOSENSORS**
APRIL 2-6, 2026

NANOMACH 2026
**7th INTERNATIONAL CONFERENCE ON NANOMATERIALS,
NANOFABRICATION AND NANOCHARACTERIZATION**
APRIL 2-8, 2026

SEMIMATER 2026
3rd SEMICONDUCTOR MATERIALS & DEVICE PHYSICS CONFERENCE
April 5-8, 2026

Liberty Hotels Lykia, Oludeniz
MUGLA / TURKEY

TENTATIVE PROGRAM WEDNESDAY, APRIL 1, 2026	
9:00-16:30	REGISTRATION (14:00 Check-in)
Everyday Tours	SOCIAL PROGRAM <ul style="list-style-type: none">• <i>Saklıkent Jeep Safari</i>• <i>Paragliding in Oludeniz</i>

TENTATIVE PROGRAM

THURSDAY, APRIL 2, 2026

INTERM & BIOMATSEN & NANOMACH

HALL 1

PLENARY SESSION 09:30-10:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Murat Pak Imec, Belgium</p> <p style="text-align: center;">“ID...- Lithography in Today’s Microchip Manufacturing: From i-line to HNA EUV”</p>
PLENARY SESSION 10:15-11:00	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Gang Sun University of California, Davis, USA</p> <p style="text-align: center;">“ID574- Ultrasensitive Biosensors (f-ELISA) for Rapid Onsite Detection of Biological and Chemical Agents in Fluids”</p>
11:00-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Thomas Webster Hebei University of Technology, China & Brown University, USA</p> <p style="text-align: center;">“ID560- Implantable Nano Sensors: Building of off Human Success”</p>

12:30-14:00	LUNCH	
PARALLEL SESSIONS 14:00-15:20	<p>INTERM & BIOMATSEN</p> <p>HALL 1</p> <p>Chairperson: Susan Gibbs</p> <p>14:00-14:30 Susan Gibbs Amsterdam University Medical Center, Netherlands (invited speaker) ID568- Towards a multi-Organ-on-Chip model combining skin, lymph node and vasculature for mimicking innate and adaptive immune responses</p> <p>14:30-15:00 Kay Römer TU Graz, Austria invited speaker) ID583- Position Sensing in the Presence of (Bio)obstacles</p> <p>15:00-15:20 Alba Thio-Pera Procope Medicals SAS, France ID565- Development of Hemocompatible membranes for total artificial hearts: from manufacturing to in vitro evaluation</p>	<p>NANOMACH</p> <p>HALL 2</p> <p>Chairperson: Barbara Pieczyrak</p> <p>14:00-14:30 Barbara Pieczyrak University of Wroclaw, Poland (invited speaker) ID1040- Electronic and magnetic properties of salophene-based molecular systems on noble metal surfaces</p> <p>14:30-15:00 Pablo Botella INSTITUTO DE TECNOLOGIA QUÍMICA (ITQ), Spain invited speaker) ID1017- Covalent organic frameworks for cancer theranostics</p> <p>15:00-15:20 Maria Iliuta Université Laval, Canada ID1010- High-purity biohydrogen production by intensified steam reforming of biomass derivatives over nanocomposite-based hybrid materials</p>

TENTATIVE PROGRAM

FRIDAY, APRIL 3, 2026

INTERM & BIOMATSEN & NANOMACH

HALL 1

PLENARY SESSION 09:30-10:15	Chairperson: A.Yavuz Oral <p style="text-align: center;">Cagatay Aydin VIB, Belgium</p> <p style="text-align: center;">“ID...-Decoding the Brain: How AI and Big Data are Revolutionizing Neurological Diagnostics”</p>	
PLENARY SESSION 10:15-11:00	Chairperson: A.Yavuz Oral <p style="text-align: center;">Ladislav Kavan J. Heyrovsky Institute of Physical Chemistry, Czech Republic</p> <p style="text-align: center;">“ID1002- Work function and spectro-photo-electrochemistry of ZnO single crystals and thin films”</p>	
11:00-11:30	COFFEE BREAK	
PLENARY SESSION 11:30-12:15	Chairperson: A.Yavuz Oral <p style="text-align: center;">Thomas Webster Hebei University of Technology, China & Brown University, USA</p> <p style="text-align: center;">“ID...-Microscopy and Nanomedicine: Understanding Nanomaterial Control Over Cells”</p>	
12:30-14:00	LUNCH	
PARALLEL SESSIONS 14:00-15:30	<p style="text-align: center;">INTERM & BIOMATSEN HALL 1</p> Chairperson: Olga Sokolova 14:00-14:30 Olga Sokolova Lomonosov Moscow State University, Russian Federation (invited speaker) ID843- The body in the phage capsid - a detective story 14:30-15:00 Marian Catalin Grosu The National Research & Development Institute for Textiles and Leather, Romania (invited speaker) ID584- TECHNOLOGICAL SOLUTION FOR THE REALIZATION OF AN AUTOMATIC TRIGGERING SYSTEM FOR GUNSHOT WOUND DETECTION 15:00-15:30 Fatemeh Hassaninejad Farahani Tehran University of Medical Science, Iran (invited speaker) ID594- Next-Generation Wound Dressings: Lyophilized Synbiotic Microparticles for the Management of Infected Burn Wounds	<p style="text-align: center;">NANOMACH HALL 2</p> Chairperson: Ewa Mijowska 14:00-14:30 Ewa Mijowska West Pomeranian University of Technology in Szczecin, Poland (invited speaker) ID1013- Molybdenum disulfide based for electrocatalysts- new insights into hydrogen evolution 14:30-15:00 Alireza Qaiumzadeh NTNU, Norway (invited speaker) ID1020- Thickness-dependent magnon spin transport in antiferromagnetic insulators: Crossover from a quasi-three-dimensional to quasi-two-dimensional regime 15:00-15:30 XXX

TENTATIVE PROGRAM

SATURDAY, APRIL 4, 2026

INTERM & BIOMATSEN & NANOMACH

HALL 1

PLENARY SESSION 09:30-10:15	Chairperson: XXX
PLENARY SESSION 10:15-11:00	Chairperson: A.Yavuz Oral Hendrik Swart University of the Free State, South Africa "ID846- Multifunctional Lanthanide-doped Oxyfluoride Nanophosphors for Luminescence Thermometry and Latent Fingerprint Detection"
11:00- 11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	Chairperson: A.Yavuz Oral Fang Xie Imperial College London, UK "ID598- Harnessing Plasmonic Nanomaterials for Enhanced Optical Sensing and NIR-II Imaging"
12:30- 13:15	LUNCH

13:15-18:00	<p><i>SOCIAL PROGRAM</i></p> <p><i>13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND</i></p> <p><i>(Gathering at Congress registration desk)</i></p>
19:30-21:30	<p><i>SPECIAL DINNER WITH INTERM & BIOMATSEN & NANOMACH PLENARY - INVITED SPEAKERS</i></p> <p><i>(Authentic Turkish Cuisine)</i></p>

<p>TENTATIVE PROGRAM</p> <p>SUNDAY, APRIL 5, 2026</p>	
<p>INTERM & BIOMATSEN & NANOMACH & SEMIMATER</p>	
	<p>HALL 1</p>
<p>PLENARY SESSION 10:15-11:00</p>	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Alexander Khmaladze</p> <p style="text-align: center;">SUNY at Albany, USA</p> <p style="text-align: center;">“ID857- Machine Learning Based Raman Spectral Analysis of Complex Biological Systems”</p>
<p>11:00-11:30</p>	<p>COFFEE BREAK</p>
<p>PLENARY SESSION 11:30-12:15</p>	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Todor Zhelyazov</p> <p style="text-align: center;">Bulgarian Academy of Sciences, Bulgaria</p> <p style="text-align: center;">“ID853- Analyzing the response of intelligent material containing a self-healing agent”</p>
<p>12:30-14:00</p>	<p>LUNCH</p>
<p>PARALLEL SESSIONS 14:00-15:20</p>	<p style="text-align: center;">INTERM & BIOMATSEN & NANOMACH & SEMIMATER</p> <p style="text-align: center;">HALL 1</p> <p>Chairperson: Ekaterina Silina</p> <p>14:00-14:30 Ekaterina Silina Sechenov First Moscow State Medical University (Sechenov University), Russian Federation (invited speaker) ID1023- Development of redox-active nanomaterials based on cerium phosphate nanoparticles for biomedical applications</p> <p>14:30-14:50 Olga D. Hendrickson</p>

	<p>Bach Institute of Biochemistry, Research Center of Biotechnology of the Russian Academy of Sciences, Russian Federation</p> <p>ID575- Enantiospecific biosensor for antibiotics detection based on lateral flow testing</p> <p>14:50-15:20</p> <p>XXX</p>
15:30-16:00	COFFEE BREAK
16:00-17:00	<p>FOYER (Poster Session Area)</p> <p>Chairperson: A. Yavuz Oral</p> <p>POSTER SESSION</p> <p>INTERM & BIOMATSEN & NANOMACH & SEMIMATER</p>

<p>TENTATIVE PROGRAM</p> <p>MONDAY, APRIL 6, 2026</p>	
<p>INTERM & BIOMATSEN & NANOMACH & SEMIMATER</p>	
<p>HALL 1</p>	
<p>PLENARY SESSION 09:30-10:15</p>	<p>Chairperson:</p> <p style="text-align: center;">XXX</p>
<p>PLENARY SESSION 10:15-11:00</p>	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Nilanthy Balakrishnan Keele University, UK</p> <p style="text-align: center;">“ID1006- All solid-state supercapacitor with natural rubber-based solid polymer electrolyte and 2D materials-based electrodes”</p>
11:00-11:30	COFFEE BREAK
<p>PLENARY SESSION 11:30-12:15</p>	<p>Chairperson: A.Yavuz Oral</p> <p style="text-align: center;">Eugeny V Kryukov Cryogenic Ltd., UK</p> <p style="text-align: center;">“ID837- Cryogen-free technology for applications in Magnetic Resonance”</p>
12:30-14:00	LUNCH

	INTERM & BIOMATSEN & NANOMACH & SEMIMATER HALL 1
PARALLEL SESSIONS 14:00-15:30	Chairperson: Mauro Tortello 14:00-14:30 Mauro Tortello Politecnico di Torino, Italy <i>(invited speaker)</i> ID838- Thermal Properties of CVD Graphene by Scanning Thermal Microscopy and Finite-Elements Analysis 14:30-15:00 Gunther Van Kerckhove OCSiAI Europe Sarl, Luxembourg <i>(invited speaker)</i> ID1015- Importance of exposure assessment along life cycle of nanocomposites 15:00-15:30 Joshua Nehinbe Edo State University, Nigeria <i>(invited speaker)</i> ID1- Formal Gate-Level Transformation Theorems for IP-Aware Functional Equivalence in Digital Logic Design
19:30-21:30	SPECIAL DINNER WITH SEMIMATER & SCITEED & DIGIAI SOCIETY PLENARY - INVITED SPEAKERS <i>(Authentic Turkish Cuisine)</i>

TENTATIVE PROGRAM TUESDAY, APRIL 7, 2026	
INTERM & NANOMACH & SEMIMATER	
PLENARY SESSION 09:30-10:15	Chairperson: <p style="text-align: center;">XXX</p>
PLENARY SESSION 10:15-11:00	Chairperson: Ersin Kayahan <p style="text-align: center;"> Kuan-Wei Lee I-Shou University, Taiwan </p> <p style="text-align: center;"> "ID1041- Global Semiconductor Industry Trends and Developments: Insights from Taiwan" </p>
11:00-11:30	COFFEE BREAK

PLENARY SESSION 11:30-12:15	<p>Chairperson: Ersin Kayahan</p> <p style="text-align: center;">Uwe Bandelow</p> <p style="text-align: center;">Weierstrass Institute for Applied Analysis and Stochastics (WIAS), Germany</p> <p style="text-align: center;">“ID8- Modeling and Simulation of the dynamics in semiconductor lasers”</p>
12:30-14:00	LUNCH
PARALLEL SESSIONS 14:00-15:30	<p style="text-align: center;">INTERM & NANOMACH & SEMIMATER</p> <p style="text-align: center;">HALL 1</p> <p>Chairperson: Ersin Kayahan</p> <p>14:00-14:30 Elena Orlenko Peter the Great Saint-Petersburg Polytechnic University, Russian Federation (invited speaker) ID5- COHERENT PHONON STATES IN HEAT TRANSFER IN NANOMATERIALS WITH DIFFERENT SIZE DIMENSION</p> <p>14:30-15:00</p> <p>15:00-15:30</p>

TENTATIVE PROGRAM WEDNESDAY, APRIL 8, 2026	
PLENARY SESSION 10:15-11:00	<p>Chairperson: Mehmet Emre Akoz</p> <p style="text-align: center;">Sebastian Schlücker</p> <p style="text-align: center;">University of Duisburg-Essen, Germany</p> <p style="text-align: center;">“ID851- SERS-Based Biophotonics: From Nanotags to Microscopy and POCT”</p>
11:00-11:30	COFFEE BREAK
PLENARY SESSION 11:30-12:15	<p>Chairperson:</p> <p style="text-align: center;">XXX</p>
13:15-18:00	<p style="text-align: center;">SOCIAL PROGRAM</p> <p>13:15-18:00 GHOST TOWN & BLUE LAGOON</p> <p><i>(Gathering at Congress registration desk)</i></p>

TENTATIVE PROGRAM
THURSDAY, APRIL 9, 2026

	<p>Leisure Time</p> <p>Liberty Hotels Lykia offers a premium leisure experience with extensive amenities and a stunning natural setting. The resort features a private beach, multiple swimming pools, an aquapark, diverse dining options, sports facilities, and a fully equipped spa and wellness centre. Combining comfort, entertainment, and relaxation, it provides an ideal atmosphere for guests seeking both tranquillity and active recreation throughout their stay.</p>
12:00	HOTEL CHECK OUT

<i>PROGRAM LEGEND DESCRIPTIONS</i>	
ID-	INTERM 2026 oral presentations
ID-	BIOMATSEN 2026 oral presentations
ID-	NANOMACH 2026 oral presentations
ID-	SEMIMATER 2026 oral presentations

TENTATIVE POSTER PROGRAM

SUNDAY, APRIL 5, 2026

16:00-17:00

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION

INTERM & BIOMATSEN & NANOMACH & SEMIMATER

ID	TITLE	CONTACT AUTHOR
XXX	XX	X
XXX	XX	X
1008	Structure–Function Relationships of Engineered Oxide Nanoparticles for Wettability Alteration in Porous Media	Nyeso Azubuike
1016	GREEN NONOTECHNOLOGY: THE PROMISE OF BIOPOLYMERS EMULSIONS IN CRAFTING THE NEXT GENERATION OF ECO-FRIENDLY PESTICIDES	Christian Andreasen
1037	IMPACT OF PORE STRUCTURE AND SURFACE MODIFICATION ON LOADING CAPACITY AND DRUG RELEASE PROFILES OF TWO TYPES OF CUBIC MESOPOROUS SILICAS LOADED WITH THE FLUOROQUINOLONE ANTIBIOTIC LOMEFLOXACIN	Borislav Tzankov
1038	DESIGN OF MCM-41 MESOPOROUS SILICA NANOPARTICLES FOR DELIVERY OF PYRROLE HYDRAZONES AND IMPROVEMENT OF THEIR BIOPHARMACEUTICAL PROPERTIES	Diana Tzankova
XXX	XX	X