

**APMAS 2021**

**11<sup>th</sup> INTERNATIONAL ADVANCES IN APPLIED PHYSICS &  
MATERIALS SCIENCE CONGRESS & EXHIBITION**

**ENEFM 2021**

**7<sup>th</sup> INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY  
& ENERGY RELATED MATERIALS**

**INTERM 2021**

**8<sup>th</sup> INTERNATIONAL CONGRESS ON MICROSCOPY &  
SPECTROSCOPY**

**BIOMATSEN 2021**

**6<sup>th</sup> INTERNATIONAL CONGRESS ON BIOMATERIALS &  
BIOSENSORS**

**NANOMACH 2021**

**2<sup>nd</sup> INTERNATIONAL CONFERENCE ON  
NANOMATERIALS, NANOFABRICATION AND  
NANOCHARACTERIZATION**

**INTERPHOTONICS 2021**

**3<sup>rd</sup> INTERNATIONAL CONFERENCE ON PHOTONICS  
RESEARCH**

**OCTOBER 17-23, 2021**

**Liberty Hotels Lykia, Oludeniz  
MUGLA / TURKEY**

<b>TENTATIVE PROGRAM</b> <b>FRIDAY, OCTOBER 15, 2021</b>	
14:00-23:30	<b>REGISTRATION FOR EARLY ARRIVALS</b> <b>(14:00 Check-in)</b>

<b>TENTATIVE PROGRAM</b> <b>SATURDAY, OCTOBER 16, 2021</b>	
9:00-23:30	<b>REGISTRATION</b> <b>(14:00 Check-in)</b>
Everyday Tours	<b>SOCIAL PROGRAM</b> <ul style="list-style-type: none"> <li>• <i>Saklıkent Jeep Safari</i></li> <li>• <i>Paragliding in Oludeniz</i></li> </ul>

<b>TENTATIVE PROGRAM</b> <b>SUNDAY, OCTOBER 17, 2021</b>	
<b>HALL 1</b>	
<b>OPENING SESSION</b> 11:00-11:15	Chairperson: <b>A.Yavuz ORAL</b>  <b>OPENING CEREMONY</b> <b>A.Yavuz ORAL</b>
11:15-11:30	<b>COFFEE BREAK</b>
<b>PLENARY SESSION</b> 11:30-12:15	Chairperson: <b>A.Yavuz ORAL</b>  <b>M.Alper SAHINER</b> Seton Hall University, USA  <b>PLENARY SPEAKER</b>  <b>“Phase Identification in HfZrO<sub>2</sub> Ferroelectric Thin Films: DFT and X-ray Absorption Fine-Structure Spectroscopy”</b>

12:15-14:00	<b>LUNCH</b>	
<b>PARALLEL SESSIONS</b> 14:00-15:40	<b>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</b>	
	<b>HALL 1</b>	<b>HALL 2</b>

	<p>Chairperson: <b>Vladimir Popok</b></p> <p>(14:00-14:30)  <b>Vladimir Popok</b>  Aalborg University, Denmark  <i>(Invited speaker)</i>  <b>ID374-</b> “Matrices of Gas Aggregated Metal Nanoparticles for Enhancement of SALDI MS”</p> <p>(14:30-14:50)  <b>Olga Hendrickson</b>  Bach Institute of Biochemistry, Research Center of Biotechnology of the Russian Academy of Sciences, Russian Federation  <b>ID387-</b> Lateral flow immune sensors for phycotoxins: Improved assays and new reactants for sensitive detection</p> <p>(14:50-15:10)  <b>Gokcen Yasayan</b>  Marmara University, Turkey  <b>ID384-</b> Nanotextured films encapsulating doxorubicin hydrochloride for cancer treatment</p> <p>(15:10-15:40)  <b>Pietro Galinetto</b>  University of Pavia, Italy  <i>(Invited speaker)</i>  <b>ID556-</b> “Raman investigations in pure and doped Zinc ferrites nanoparticles”</p>	<p>Chairperson: <b>Ivan Kelnar</b></p> <p>(14:00-14:30)  <b>Ivan Kelnar</b>  Institute of Macromolecular Chemistry, ASCR, Czech Republic  <i>(Invited speaker)</i>  <b>ID681-</b> “Nano-modified epoxy: effect of GO modification on formation of nacre-like structures”</p> <p>(14:30-15:00)  <b>M. Natália D. S. Cordeiro</b>  LAQV-REQUIMTE, University of Porto, Portugal  <i>(Invited speaker)</i>  <b>ID682-</b> “Covalent Functionalization of Graphene by PAMAM Dendrimer and Its Implications on Graphene’s Dispersion and Cytotoxicity”</p> <p>(15:00-15:30)  <b>Dina Deyneko</b>  Lomonosov Moscow State University, Russian Federation  <i>(Invited speaker)</i>  <b>ID558-</b> Green-Emitters Ca<sub>8</sub>ZnGd<sub>1-x</sub>Tbx(PO<sub>4</sub>)<sub>7</sub> WITH β-Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>-Type Structure</p>
15:30-15:50	<b>COFFEE BREAK</b>	
PARALLEL SESSIONS 15:50-17:10	<b>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</b>	
	<b>HALL 1</b>	<b>HALL 2</b>
	<p>Chairperson: <b>Agata Krywko-Cendrowska</b></p> <p>(15:50-16:20)  <b>Agata Krywko-Cendrowska</b>  University of Basel, Switzerland  <i>(Invited speaker)</i>  <b>ID400-</b> “Self-assembly of amphiphilic triblock copolymers into versatile sensing platforms using a microfluidic approach”</p> <p>(16:20-16:40)  <b>Iheb Bouzaiane</b>  European university of Lefke, Northern Cyprus  <b>ID65-</b> Development and Implementation of a smart SCADA System for hybrid PV-Wind installation</p> <p>(16:40-17:10)  <b>Dana Seyringer</b>  Vorarlberg University of Applied Sciences, Research Centre for Microtechnology, Austria  <i>(Invited speaker)</i>  <b>ID526-</b> “Arrayed waveguide gratings for photonics applications”</p>	<p>Chairperson: <b>Aykut Yakup</b></p> <p>(15:50-16:20)  <b>Aykut Yakup</b>  Bursa Uludag University, Turkey  <i>(Invited Speaker)</i>  <b>ID717-</b> “Ceramic Nanofibrous Structures for DNA Damage Detection”</p> <p>(16:20-16:50)  <b>Marek Wiśniewski</b>  Nicolaus Copernicus University in Toruń, Poland  <i>(Invited Speaker)</i>  <b>ID684-</b> “Carbon Quantum Dots – known but still mysterious”</p>

<b>TENTATIVE PROGRAM</b> <b>MONDAY, OCTOBER 18, 2021</b>			
<b>PARALLEL SESSIONS 10:00-12:00</b>	<b>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</b>		
	<b>HALL 1</b>	<b>HALL2</b>	<b>HALL 3</b>
	Chairperson: <b>Sefik Suzer</b>  (10:00-10:30) <b>Sefik Suzer</b> Bilkent University, Turkey <i>(Invited speaker)</i> <b>ID541-</b> “Localized X-Ray Photoelectron Impedance Spectroscopy for Liquid/Solid Interfaces”  (10:30-11:00) <b>Michal Horak</b> Brno University of Technology, Czech Republic <i>(Invited speaker)</i> <b>ID539-</b> “Imaging of electric and magnetic near fields of plasmonic antennas by EELS”  (11:00-11:30) <b>Balazs Illes</b> Budapest University of Technology and Economics, Department of Electronics Technology, Hungary <i>(Invited speaker)</i> <b>ID535-</b> “Microstructural investigation of SnAgCu-TiO <sub>2</sub> composite solder alloys”  (11:30-12:00) <b>Marek Kojdecki</b> Military University of Technology, Poland <i>(Invited speaker)</i> <b>ID549-</b> “Characterization of crystalline microstructure in polycrystalline materials by analyzing powder X-ray diffraction patterns”	Chairperson: <b>Tayfun Babadagli</b>  (10:00-10:30) <b>Tayfun Babadagli</b> University of Alberta, Canada <i>(Invited speaker)</i> <b>ID26-</b> “Next Generation Techniques for Ecofriendly-High Efficiency Recovery of Heavy Oil/Bitumen”  (10:30-11:00) <b>Nicolae Marinescu</b> Transilvania University of Brasov, Romania <i>(Invited speaker)</i> <b>ID298-</b> “Assessing the Evolution of the Romanian Renewable Energy Market”  (11:00-11:20) <b>Ekaterina Politova</b> Semenov Institute of Chemical Physics RAS, Russian Federation <b>ID1805-</b> Preparation and characterization of dielectric, ferroelectric and piezoelectric properties of lead-free ceramics on the base of sodium-bismuth titanate and sodium-potassium niobate  (11:20-11:40) <b>Igor Perevyazko</b> Saint Petersburg State University, Russian Federation <b>ID1865-</b> Metallo-Supramolecular Assemblies based on Terpyridine and Ferrocene units: Formation, Composition and Properties in solution  (11:40-12:00) <b>Mikhail Proyavin</b> Federal Research Center Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation <b>ID1898-</b> Recent results of new additive technology CMPS of manufacturing elements of vacuum electronic devices	Chairperson: <b>Alexander Andrianov</b>  (10:00-10:30) <b>Alexander Andrianov</b> Ioffe Physical Technical Institute, Russia <i>(Invited Speaker)</i> <b>ID504-</b> Excitonic THz luminescence from semiconductors  (10:30-11:00) <b>Humeyra ORUCU</b> Ege Üniversitesi, Turkey <i>(Invited Speaker)</i> <b>ID563-</b> Luminescent Phosphors as Optical Temperature Sensing Materials  (11:00-11:30) <b>Ivana Panžić</b> University of Zagreb, Croatia <i>(Invited speaker)</i> <b>ID513-</b> Influence of Al doping on morphology and electrical properties of ZnO nanorods  (11:30-12:00) <b>Jozef Chovan</b> Slovak Centre of Scientific and Technical Information, International Laser Centre, Slovakia <i>(Invited speaker)</i> <b>ID548-</b> Temperature Stability of Fiber Array to Photonics Chip Butt Coupling
	<b>12:00-13:15</b>	<b>LUNCH</b>	
	<b>13:15-18:00</b>	<b>SOCIAL PROGRAM</b>  <b>13:15-18:00 FETHIYE CITY TOUR &amp; THE ROCK TOMBS</b>  <i>(Gathering at Congress registration desk)</i>	

<p style="text-align: center;"><b>TENTATIVE PROGRAM</b> <b>TUESDAY, OCTOBER 19, 2021</b></p>			
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>PLENARY SESSION</b></p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">10:00-10:45</p>	<p>Chairperson: <b>A.Yavuz ORAL</b></p> <p style="text-align: center;"><b>Darya ALONTSEVA</b> East Kazakhstan Technical University, Kazakhstan <b>PLENARY SPEAKER</b></p> <p style="text-align: center;"><b>“Increasing the Efficiency of Microplasma Spraying of Zr Wire Coatings on Small Parts by Selecting the Optimal Spraying Parameters”</b></p>		
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">10:45-11:00</p>	<p><b>COFFEE BREAK</b></p>		
<b>PARALLEL SESSIONS 11:00-12:20</b>	<p style="text-align: center;"><b>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</b></p>		
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 3</b>
	<p>Chairperson: <b>Marek Godlewski</b></p> <p>(11:00-11:30) <b>Marek Godlewski</b> Institute of Physics Polish Academy of Sciences, Poland (Invited speaker) <b>ID334-</b> “Thin films of oxides grown by ALD – New bio and medical applications”</p> <p>(11:30-11:50) <b>OANA-ELENA Carp</b> "Petru Poni" Institute of Macromolecular Chemistry, Romania <b>ID376-</b> Evaluation of antioxidant properties using Electrochemistry combined with in vitro peroxidation and reducing assays</p> <p>(11:50-12:10) <b>Maciej Trzaskowski</b> Warsaw University of Technology, Centre for Advanced Materials and Technologies, CEZAMAT, Poland <b>ID368-</b> Portable Surface Plasmon Resonance Detector for COVID-19</p>	<p>Chairperson: <b>SAULIUS Rudys</b></p> <p>(11:00-11:30) <b>Saulius Rudys</b> Institute of Applied Electrodynamics and Telecommunications, Vilnius University, Lithuania (Invited speaker) <b>ID1803-</b> “Measurement of magnetic permeability using various methods”</p> <p>(11:30-11:50) <b>Recep Yilmaz</b> TUBITAK National Metrology Institute (TUBITAK UME), Turkey <b>ID1857-</b> Interlaboratory Pressure Comparison Measurement in Hydraulic Medium up to 400 MPa Range</p> <p>(11:50-12:10) <b>Can Yesilyurt</b> Istanbul University, Turkey <b>ID1870-</b> Fabrication and characterization of nano-scale devices based on anisotropic Weyl semimetals</p>	<p>Chairperson: <b>Gaku Egucki</b></p> <p>(11:00-11:30) <b>Gaku Egucki</b> Institute of Solid State Physics, TU Wien, Austria (Invited speaker) <b>ID17-</b> “Giant transport anisotropy in a cubic thermoelectric material”</p> <p>(11:30-11:50) <b>Vinodkumar Etacheri</b> IMDEA Materials Institute, Madrid, Spain <b>ID299-</b> High performance Mg and Mg-Li/Na-ion hybrid batteries through defect engineering of metal oxide electrodes</p> <p>(11:50-12:20) <b>Juma Haydary</b> Slovak University of Technology in Bratislava, Slovakia (Invited speaker) <b>ID300-</b> A novel two stage pyrolysis/splitted product gasification (PSPG) system for biomass conversion</p>

12:20-13:30	<b>LUNCH</b>		
	<b>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</b>		
PARALLEL SESSIONS 13:30-15:50	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 3</b>
	<p>Chairperson: <b>Adina Arvinte</b></p> <p>(13:30-14:00)  <b>Adina Arvinte</b>  “Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania  <i>(Invited speaker)</i>  <b>ID377-</b> “Bimetallic Based Nanostructures for Electrochemical Sensing Applications”</p> <p>(14:00-14:30)  <b>Viacheslav Barsukov</b>  Kyiv National University of Technologies and Design, Ukraine  <i>(Invited speaker)</i>  <b>ID1830-</b> “Composite Paints for Electromagnetic Shielding”</p> <p>(14:30-15:00)  <b>George R. Ivanov</b>  University of Architecture, Civil Engineering and Geodesy, Bulgaria  <i>(Invited Speaker)</i>  <b>ID382-</b> “Chemical Nano Biosensors Based on Novel Phenomena in Langmuir and Langmuir-Blodgett Films from A Lipids and Phospholipids”</p> <p>(15:00-15:20)  <b>Mariana Ionita</b>  University Politehnica of Bucharest, Romania  <b>ID327-</b> Ectopic osteogenesis of bioinspired composite scaffold with graphene oxide filling and hydroxyapatite gradient density</p> <p>(15:20-15:50)  <b>Jean-Yves Raty</b>  University of Liege, Belgium  <i>(Invited Speaker)</i>  <b>ID1832-</b> “Metavalent Bonding: Characterization and Implications for Applications in Phase Change Materials, Thermoelectric and Photovoltaic compounds”</p>	<p>Chairperson: <b>Juras Banys</b></p> <p>(13:30-14:00)  <b>Juras Banys</b>  Vilnius University, Lithuania  <i>(Invited speaker)</i>  <b>ID1734-</b> “PECULIARITIES OF DIPOLAR ORDERING IN MIXED CATION HALIDE PEROVSKITES”</p> <p>(14:00-14:30)  <b>Lavinia Curecheriu</b>  Alexandru Ioan Cuza University, Romania  <i>(Invited speaker)</i>  “Role of critical parameters (composition, phase superposition and grain size) on the electrocaloric properties of BaZrxTi1-xO3 ceramics”</p> <p>(14:30-14:50)  <b>Abdulazim Marafi</b>  Kuwait Institute for Scientific Research, Kuwait  <b>ID1821-</b> The Role of R&amp;D Toward Fossil Fuels to Clean Environmentally Friendly Fuels</p> <p>(14:50-15:10)  <b>Recep Yilmaz</b>  TUBITAK National Metrology Institute (TUBITAK UME), Turkey  <b>ID1858-</b> The Influence of Liquids on Dynamic Pressure Transducers Performance by Using Dropping Mass Method</p> <p>(15:10-15:30)  <b>Recep Yilmaz</b>  TUBITAK National Metrology Institute (TUBITAK UME), Turkey  <b>ID1859-</b> Calibration of Pressure Balances</p> <p>(15:30-15:50)  <b>Ulviye Bunyatova</b>  Baskent University, Turkey  <b>ID1841-</b> Photosynthesized extra small silver nanoparticles: Structural evaluation and antimicrobial potential</p>	<p>Chairperson: <b>Maarten Vanierschot</b></p> <p>(13:30-14:00)  <b>Maarten Vanierschot</b>  KU Leuven, Belgium  <i>(Invited speaker)</i>  <b>ID53-</b> “COMBINED TRANSIENT HEAT AND MASS TRANSFER MODELING OF SOLAR POWERED FOOD DRYERS”</p> <p>(14:00-14:30)  <b>Venko Beschkov</b>  Bulgarian Academy of Sciences, Bulgaria  <i>(Invited speaker)</i>  <b>ID07-</b> “Bioelectrochemical Processes for Wastewater Treatment”</p> <p>(14:30-15:00)  <b>Bauer Ernst</b>  TU Wien, Austria  <i>(Invited speaker)</i>  <b>ID27-</b> “Improving thermoelectricity of Heusler compounds: stucture – property relations”</p> <p>(15:00-15:30)  <b>Baran Sarac</b>  Austrian Academy of Sciences - Erich Schmid Institute of Materials Science, Austria  <i>(Invited speaker)</i>  <b>ID58-</b> “Pd- and Ti-based Metallic Glasses: Electrochemical Hydrogen Activity and Corrosion Properties”</p> <p>(15:30-15:50)  <b>Vladislavs Bezrukovs</b>  Engineering Research Institute Ventspils International Radio Astronomy Centre of Ventspils University of Applied Sciences, Latvia  <b>ID56-</b> Forecasting wind energy density distribution in the Baltic States based on NEWA atlas</p>
15:50-16:00	<b>COFFEE BREAK</b>		
	<b>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</b>		
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 3</b>

PARALLEL SESSIONS 16:00-17:40	<p>Chairperson: <b>Zdenko Vizintin</b></p> <p>(16:00-16:30)  <b>Zdenko Vizintin</b>  Fotona, Slovenia  (Invited Speaker)  <b>ID531</b>-Unique Features of Non-Ablative ERYAG Laser in Medical Therapies</p> <p>(16:30-16:50)  <b>Krzysztof Sielicki</b>  West Pomeranian University of Technology in Szczecin, Poland  <b>ID699</b>- Single-atom catalyst based on Al-MOF for Oxygen Evolution Reaction</p> <p>(16:50-17:10)  <b>Klaudia Maślana</b>  West Pomeranian University of Technology, Poland  <b>ID700</b>- Development of high active material based on nickel nanoparticles on cellulose platform for electrochemical applications</p>	<p>Chairperson: <b>Leontin Padurariu</b></p> <p>(16:00-16:30)  <b>Leontin Padurariu</b>  Alexandru Ioan Cuza University of Iasi, Romania  (Invited Speaker)  <b>ID1883</b>- “Exploiting local field inhomogeneity for tuning functional properties in ferroelectric based composites”</p> <p>(16:30-16:50)  <b>Khaled Youssef</b>  Qatar University, Qatar  <b>ID1749</b>- The effect of graphene structural integrity on the thermoelectric behavior of bismuth telluride</p> <p>(16:50-17:10)  <b>Yury Philippov</b>  Joint Institute for Nuclear Research, Russian Federation  <b>ID1834</b>- Diagnostic tools for multiphase flows in cryogenics, LNG- and oil industry</p> <p>(17:10-17:40)  <b>Farid Abed</b>  American University of Sharjah, United Arab Emirates  (Invited Speaker)  <b>ID1891</b>- “Thermo-Mechanical Behavior of AISI 4140 and MMFX Steel at Different Temperatures and Strain Rates”</p>	<p>Chairperson: <b>Elena Alekseeva</b></p> <p>(16:00-16:30)  <b>Elena Alekseeva</b>  Saint Petersburg University, Russian Federation  (Invited Speaker)  <b>ID28</b>- “Energy storage properties of NiSalen type polymer and its composites at low-temperature”</p> <p>(16:30-16:50)  <b>Oytun Erdemir</b>  ADM Elektrik Dağıtım A.Ş., Turkey  <b>ID49</b>- Differentiating Technical and Non-Technical Losses in Electricity Distribution Systems</p> <p>(16:50-17:10)  <b>Ance Plavniece</b>  Latvian State Institute of Wood Chemistry, Latvia  <b>ID67</b>- Biomass based Carbon Materials for Fuel Cells</p>



	<p style="text-align: center;"><b>TENTATIVE P R O G R A M</b></p> <p style="text-align: center;"><b>WEDNESDAY, OCTOBER 20, 2021</b></p>		
<b>PLENARY SESSION</b> 09:00-09:45	<p>Chairperson: <b>A.Yavuz Oral</b></p> <p style="text-align: center;"><b>Thomas WEBSTER</b>  Northeastern University, USA  <b>PLENARY SPEAKER</b></p> <p style="text-align: center;"><b>“The Past, Present, and Future of Nanomedicine: Battling COVID-19, Making Implantable Sensors, 4D Printing and More!”</b></p>		
09:45-10:00	<b>COFFEE BREAK</b>		
<b>PARALLEL SESSIONS</b> 10:00-12:00	<p style="text-align: center;"><b>APMAS &amp; <i>ENEFM</i> &amp; <i>INTERM</i> &amp; <i>BIOMATSEN</i> &amp; <i>NANOMACH</i> &amp; <i>INTERPHOTONICS</i></b></p>		
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 3</b>
	<p>Chairperson: <b>George Kalosakas</b></p> <p>(10:00-10:30)  <b>George Kalosakas</b>  University of Patras, Greece  <i>(Invited Speaker)</i>  <b>ID1871-</b> “Modeling phonons and mechanical properties of 2-dimensional materials”</p> <p>(10:30-11:00)  <b>Seniz R. Kushan Akin</b>  Çankaya University, Turkey  <i>(Invited speaker)</i>  <b>ID388-</b> “Antibacterial Properties of Si<sub>3</sub>N<sub>4</sub> Based Ceramics”</p> <p>(11:00-11:20)  <b>Sanat Tolendiuly</b>  Institute of Combustion Problems, Kazakhstan  <b>ID1853-</b> Study of Physico-Chemical Properties of Refractory Materials Synthesized from Metallurgical Waste</p> <p>(11:20-11:40)  <b>Sergey Gudoshnikov</b>  National University of Science and Technology «MISiS», Russian Federation  <b>ID1809-</b> Scanning magnetometer based on a magnetoimpedance sensor for nondestructive evaluation of materials containing magnetic nanoparticles</p> <p>(11:40-12:00)  <b>Ramunas Levinas</b>  Vilnius University, Lithuania  <b>ID1744-</b> SMARTELECTRODES: Scaling up from 2D to 3D Electrodes and Unifying Methods of their Catalytic Activity Characterization Using EIS</p>	<p>Chairperson: <b>Melinda David</b></p> <p>(10:00-10:30)  <b>Melinda David</b>  Transilvania University of Brasov, Romania  <i>(Invited Speaker)</i>  <b>ID391-</b> “Electrochemical biotransducers for label-free analysis of biomolecules: from proof of concept to medical applications”</p> <p>(10:30-11:00)  <b>Philippe Mesini</b>  Institute Charles Sadron, France  <i>(Invited Speaker)</i>  <b>ID552-</b> “Study of the polymorphism of an organogel: nanotube to crystallites transition”</p> <p>(11:00-11:30)  <b>Jose Mustre</b>  Cinvestav, Mexico  <i>(Invited Speaker)</i>  <b>ID471-</b> “X-ray absorption near edge spectroscopy used to determine local atomic structure of ions in solution. The case of as in water”</p> <p>(11:30-11:50)  <b>Alexander Georgievich Savelyev</b>  FSRC «Crystallography and Photonics» RAS, Russian Federation  <b>ID381-</b> Cell-friendly hydrogel fiber fabrication for biomedical applications</p>	<p>Chairperson: <b>Sergey Klimonsky</b></p> <p>(10:00-10:30)  <b>Sergey Klimonsky</b>  Lomonosov Moscow State University, Russian Federation  <i>(Invited Speaker)</i>  <b>ID559-</b>SERS substrates from inverse opal photonic crystal films</p> <p>(10:30-11:00)  <b>Vesna Janicki</b>  Ruder Boskovic Institute, Croatia  <i>(Invited Speaker)</i>  <b>ID550-</b>Optical characterization of spin coated Ag/polymer nanocomposite film on soda-lime glass substrate</p> <p>(11:00-11:30)  <b>Victor Koledov</b>  Kotel’nikov Institute of Radioengineering and Electronics Russian Academy of Sciences, Russian Federation  <i>(Invited Speaker)</i>  <b>ID553-</b>Mechanical Nano-Manipulation for the Novel Single Photon Sources with Hybrid Nanoantennas</p> <p>(11:30-12:00)  <b>Svetlana Von Gratowski</b>  Kotel’nikov Institute of Radioengineering and Electronics Russian Academy of Sciences, Russian Federation  <i>(Invited Speaker)</i>  <b>ID561-</b>Creating CNT based devices for nanophotonics, nanoplasmonics, metasurfaces, THz generation using nano-manipulation</p>
12:00-13:15	<b>LUNCH</b>		
13:15-18:00	<p><b><i>SOCIAL PROGRAM</i></b></p> <p><b>13:15-18:00 GHOST TOWN &amp; BLUE LAGOON</b></p> <p><b>(Gathering at Congress registration desk)</b></p>		



<b>TENTATIVE P R O G R A M</b> <b>THURSDAY, OCTOBER 21, 2021</b>		
	<b>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</b>	
	<b>HALL 1</b>	<b>HALL 2</b>
	<p>Chairperson: <b>Vilko Mandic</b></p> <p>(10:00-10:30)  <b>Vilko Mandic</b>  University of Zagreb, Croatia  <i>(Invited Speaker)</i>  <b>ID680-</b> “Assessment of thin-films for thermochromic application using an in-operando approach”</p> <p>(10:30-11:00)  <b>Nerija Zurauskiene</b>  Center for Physical Sciences and Technology, Lithuania  <i>(Invited Speaker)</i>  <b>ID697-</b> “Magnetoresistive properties of advanced nanostructures based on graphene and lanthanum perovskite films for high magnetic field sensors applications”</p> <p>(11:00-11:30)  <b>Rafael Omar Torres Mendieta</b>  Technical University of Liberec, Czech Republic  <i>(Invited Speaker)</i>  <b>ID687-</b> “Laser-mediated fabrication of nanoparticles for the decoration of nanofibrous membranes and their usage in the oil/water separation sector”</p> <p>(11:30-12:00)  <b>Brindusa Dragoi</b>  Regional Institute of Oncology Iasi, Romania  <i>(Invited Speaker)</i>  <b>ID705-</b> “2D Nanostructured Layered Double Hydroxides for MRI and Anticancer Drug Delivery”</p> <p>(12:00-12:20)  <b>Alexandr Sirotkin</b>  Constantine the Philosopher University in Nitra, Slovakia  <b>ID690-</b> Toxic effect of metal nanoparticles on ovarian cells can be prevented by their chemical modification and plant molecules</p> <p>(12:20-12:40)  <b>Sabrine Khammassi</b>  ENSTA, France  <b>ID703-</b> Compressive mechanical performance of an epoxy adhesive doped with CNT, GNP and CB nanofillers</p> <p>(12:40-13:00)  <b>Saleem Akhtar</b>  National University of Sciences and Technology, Pakistan  <b>ID1781-</b> Optimization of ball-milling parameters for the processing of samarium-cobalt magnetic compound using Taguchi approach</p>	<p>Chairperson: <b>Malgorzata Kac</b></p> <p>(10:00-10:30)  <b>Malgorzata Kac</b>  Institute of Nuclear Physics PAN, Poland  <i>(Invited Speaker)</i>  <b>ID547-</b> “Mössbauer Spectroscopy in studies of thin films and multilayers”</p> <p>(10:30-11:00)  <b>Guenther Rupprechter</b>  TU Wien, Austria  <i>(Invited Speaker)</i>  <b>ID533-</b> “In situ Photoemission Microscopy of Catalytic Surface Reactions”</p> <p>(11:00-11:30)  <b>Svetlana Rempel</b>  Ural Branch of the Russian Academy of Science, Russian Federation  <i>(Invited Speaker)</i>  <b>ID529-</b> Research&amp;Development of inorganic nanoparticles for biomedical applications on the example of metal sulfides and metal oxides</p> <p>(11:30-12:00)  <b>Dmitry Wainstein</b>  Surface Phenomena Researches Group, Russian Federation  <i>(Invited Speaker)</i>  <b>ID548-</b> “Features of microstructure and composition of 18th century Dutch tiles revealed by SEM, XRF, XPS, and TOF-SIMS”</p> <p>(12:00-12:20)  <b>Aleksandr Shishlov</b>  JSC "SRC RF TRINITI", Russian Federation  <b>ID532-</b> X-Ray microscope with high spatial resolution (of <math>\geq 2</math> microns) and time resolution of 1 ns</p> <p>(12:20-12:40)  <b>Elina Ushanova</b>  Peter the Great Polytechnic University, Russian Federation  <b>ID553-</b> EBSD analysis application to study evolution of deformation structures in materials science</p> <p>(12:40-13:00)  <b>Asiful Seikh</b>  King Saud University, Saudi Arabia  <b>ID1880-</b> Electrochemical behavior of high Molybdenum Maraging Steel in neutral, acidic and alkaline media</p>
13:00-14:30	<b>LUNCH</b>	
14:30-16:30	<p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION</b></p> <p><b>(APMAS2021-ENEFM2021-INTERM2021-BIOMATSEN2021-NANOMACH2021- INTERPHOTONICS2021)</b></p>	

TENTATIVE PROGRAM FRIDAY, OCTOBER 22, 2021		
PARALLEL SESSIONS 10:00-12:00	APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
	HALL 1	HALL 2
	Chairperson: <b>Henrikas Cesiulis</b>  (10:00-10:30) <b>Henrikas Cesiulis</b> JSC Elektronikos Perdirbimo Technologijos / Vilnius University, Vilnius, Lithuania (Invited Speaker) <b>ID1739-</b> “SMARTELECTRODES: new way of recovering metals from electronic waste by electrowinning”  (10:30-11:00) <b>Natalia Tintaru (Tsyntsaru)</b> Institute of Applied Physics/Vilnius University, Moldova (Invited Speaker) <b>ID1738-</b> “SMARTELECTRODES: electrodeposited foams/nanostructured with large specific area suitable for catalytic, sensing and magnetic applications”  (11:00-11:30) <b>Cristina Elena Ciomaga</b> Institute of Interdisciplinary Research, Al. I. Cuza University of Iasi, Romania (Invited Speaker) <b>ID1886-</b> “Effect of porosity on dielectric, ferroelectric and piezoelectric properties in BaTiO3- based materials”  (11:30-11:50) <b>Cem Karakaya</b> Mesan Kilit A.Ş., Turkey <b>ID1884-</b> Process Improvement Using Biodegradable Material Within the Scope of Sustainability	Chairperson: <b>Albina Valeeva</b>  (10:00-10:30) <b>Albina Valeeva</b> Institute of Solid-State Chemistry of the Ural Branch of the Russian Academy of Sciences, Russian Federation (Invited Speaker) <b>ID530-</b> “In situ disordering of nonstoichiometric monoxides of IV-V groups by means of transmission electron microscope”  (10:30-11:00) <b>Alexandra Ushakova</b> Gazpromneft-Technological Partnership, Russian Federation (Invited Speaker) <b>ID18-</b> “Enhanced Oil Recovery Methods for Shale Oil extraction from Bazhenov Formation”  (11:00-11:30) <b>Badica Petre</b> National Institute of Materials Physics, Romania (Invited Speaker) <b>ID37-</b> “Bio-assessment of MgB2”  (11:30-12:00) <b>Kirill Larin</b> University of Houston, USA (Invited Speaker) <b>ID475-</b> Emerging Methods of Optical Elastography for Ocular Biomechanics
	12:00-13:15 <b>LUNCH</b>	
	13:15-18:00 <b>SOCIAL PROGRAM</b>  <b>13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON &amp; VISIT TO St. NICHOLAS ISLAND</b>  <b>(Gathering at Congress registration desk)</b>	

<div>TENTATIVE P R O G R A M</div> <div>SATURDAY, OCTOBER 23, 2021</div>	
<div>PARALLEL SESSIONS 10:00-11:50</div>	<div>APMAS &amp; ENEFM &amp; INTERM &amp; BIOMATSEN &amp; NANOMACH &amp; INTERPHOTONICS</div>
	<div>HALL 1</div>
	<div>Chairperson: Janis Spigulis</div> <div>(10:00-10:30)</div> <div>Janis SPIGULIS</div> <div>University of Latvia, Latvia</div> <div>(Invited Speaker)</div> <div>ID549- “Advanced Multispectral and Multimodal Imaging for Skin Diagnostics”</div> <div>(10:30-10:50)</div> <div>Alexei Meshalkin</div> <div>Institute of Applied Physics, Moldova</div> <div>ID1736- SMARTELECTRODES: In situ study of chalcogenide thin films growth during vacuum thermal evaporation</div> <div>(10:50-11:20)</div> <div>Anton Bourdine</div> <div>JSC, Russian Federation</div> <div>(Invited Speaker)</div> <div>ID524- “New 100-um-core silica laser-optimized multimode optical fibers for Gigabit data transmission over on-board and industrial networks”</div> <div>(11:20-11:50)</div> <div>Altay Savalan</div> <div>University of Health Science, Turkey</div> <div>(Invited Speaker)</div> <div>ID715- “Biodistribution, Pharmacokinetics and Toxicology Study of Highly Biocompatible and Biodegradable Ag2S Near-Infrared Quantum Dots in Mice”</div>
12:00	<div>Hotel Check Out</div>

PROGRAM LEGEND DESCRIPTIONS	
ID-	APMAS2021 oral presentations
ID-	ENEFM2021 oral presentations
ID-	INTERM2021 oral presentations
ID-	BIOMATSEN2021 oral presentations
ID-	NANOMACH2021 oral presentations
ID-	INTERPHOTONICS2021 oral presentations