

APMAS 2021

**11th INTERNATIONAL ADVANCES IN APPLIED PHYSICS &
MATERIALS SCIENCE CONGRESS & EXHIBITION**

ENEFM 2021

**7th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY
& ENERGY RELATED MATERIALS**

INTERM 2021

**8th INTERNATIONAL CONGRESS ON MICROSCOPY &
SPECTROSCOPY**

BIOMATSEN 2021

**6th INTERNATIONAL CONGRESS ON BIOMATERIALS &
BIOSENSORS**

NANOMACH 2021

**2nd INTERNATIONAL CONFERENCE ON
NANOMATERIALS, NANOFABRICATION AND
NANOCHARACTERIZATION**

INTERPHOTONICS 2021

**3rd INTERNATIONAL CONFERENCE ON PHOTONICS
RESEARCH**

OCTOBER 17-23, 2021

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

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

PROGRAM SATURDAY, OCTOBER 16, 2021	
9:00-23:30	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>

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

12:15-14:00	LUNCH	
PARALLEL SESSIONS 14:00-15:40	APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
	YUNUS EMRE 1	ARISTO

	<p>Chairperson: Vladimir Popok</p> <p>(14:00-14:30) Vladimir Popok Aalborg University, Denmark <i>(Invited speaker)</i> ID374- “Matrices of Gas Aggregated Metal Nanoparticles for Enhancement of SALDI MS”</p> <p>(14:30-14:50) Olga Hendrickson Bach Institute of Biochemistry, Research Center of Biotechnology of the Russian Academy of Sciences, Russian Federation ID387- Lateral flow immune sensors for phycotoxins: Improved assays and new reactants for sensitive detection</p> <p>(14:50-15:10) Gokcen Yasayan Marmara University, Turkey ID384- Nanotextured films encapsulating doxorubicin hydrochloride for cancer treatment</p> <p>(15:10-15:40) Pietro Galinetto University of Pavia, Italy <i>(Invited speaker)</i> ID556- “Raman investigations in pure and doped Zinc ferrites nanoparticles”</p>	<p>Chairperson: Ivan Kelnar</p> <p>(14:00-14:30) Ivan Kelnar Institute of Macromolecular Chemistry, ASCR, Czech Republic <i>(Invited speaker)</i> ID681- “Nano-modified epoxy: effect of GO modification on formation of nacre-like structures”</p> <p>(14:30-15:00) M. Natália D. S. Cordeiro LAQV-REQUIMTE, University of Porto, Portugal <i>(Invited speaker)</i> ID682- “Covalent Functionalization of Graphene by PAMAM Dendrimer and Its Implications on Graphene’s Dispersion and Cytotoxicity”</p> <p>(15:00-15:30) Dina Deyneko Lomonosov Moscow State University, Russian Federation <i>(Invited speaker)</i> ID558- Green-Emitters Ca₈ZnGd_{1-x}Tbx(PO₄)₇ WITH β-Ca₃(PO₄)₂-Type Structure</p>
15:30-15:50	COFFEE BREAK	
PARALLEL SESSIONS 15:50-17:10	APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
	YUNUS EMRE 1	ARISTO
	<p>Chairperson: Agata Krywko-Cendrowska</p> <p>(15:50-16:20) Agata Krywko-Cendrowska University of Basel, Switzerland <i>(Invited speaker)</i> ID400- “Self-assembly of amphiphilic triblock copolymers into versatile sensing platforms using a microfluidic approach”</p> <p>(16:20-16:40) Iheb Bouzaiane European university of Lefke, Northern Cyprus ID65- Development and Implementation of a smart SCADA System for hybrid PV-Wind installation</p> <p>(16:40-17:10) Dana Seyringer Vorarlberg University of Applied Sciences, Research Centre for Microtechnology, Austria <i>(Invited speaker)</i> ID526- “Arrayed waveguide gratings for photonics applications”</p>	<p>Chairperson: Aykut Yakup</p> <p>(15:50-16:20) Aykut Yakup Bursa Uludag University, Turkey <i>(Invited Speaker)</i> ID717- “Ceramic Nanofibrous Structures for DNA Damage Detection”</p> <p>(16:20-16:50) Marek Wiśniewski Nicolaus Copernicus University in Toruń, Poland <i>(Invited Speaker)</i> ID684- “Carbon Quantum Dots – known but still mysterious”</p>

PROGRAM
MONDAY, OCTOBER 18, 2021

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS			
	YUNUS EMRE 1	ARISTO	EFLATUN
PARALLEL SESSIONS 10:00-12:00	<p>Chairperson: Sefik Suzer</p> <p>(10:00-10:30) Sefik Suzer Bilkent University, Turkey <i>(Invited speaker)</i> ID541- “Localized X-Ray Photoelectron Impedance Spectroscopy for Liquid/Solid Interfaces”</p> <p>(10:30-11:00) Michal Horak Brno University of Technology, Czech Republic <i>(Invited speaker)</i> ID539- “Imaging of electric and magnetic near fields of plasmonic antennas by EELS”</p> <p>(11:00-11:30) Balazs Illes Budapest University of Technology and Economics, Department of Electronics Technology, Hungary <i>(Invited speaker)</i> ID535- “Microstructural investigation of SnAgCu-TiO₂ composite solder alloys”</p> <p>(11:30-12:00) Marek Kojdecki Military University of Technology, Poland <i>(Invited speaker)</i> ID549- “Characterization of crystalline microstructure in polycrystalline materials by analyzing powder X-ray diffraction patterns”</p>	<p>Chairperson: Tayfun Babadagli</p> <p>(10:00-10:30) Tayfun Babadagli University of Alberta, Canada <i>(Invited speaker)</i> ID26- “Next Generation Techniques for Ecofriendly-High Efficiency Recovery of Heavy Oil/Bitumen”</p> <p>(10:30-11:00) Nicolae Marinescu Transilvania University of Brasov, Romania <i>(Invited speaker)</i> ID298- “Assessing the Evolution of the Romanian Renewable Energy Market”</p> <p>(11:00-11:20) Ekaterina Politova Semenov Institute of Chemical Physics RAS, Russian Federation ID1805- Preparation and characterization of dielectric, ferroelectric and piezoelectric properties of lead-free ceramics on the base of sodium-bismuth titanate and sodium-potassium niobate</p> <p>(11:20-11:40) Igor Perevyazko Saint Petersburg State University, Russian Federation ID1865- Metallo-Supramolecular Assembles based on Terpyridine and Ferrocene units: Formation, Composition and Properties in solution</p> <p>(11:40-12:00) Mikhail Proyavin Federal Research Center Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation ID1898- Recent results of new additive technology CMPS of manufacturing elements of vacuum electronic devices</p>	<p>Chairperson: Alexander Andrianov</p> <p>(10:00-10:30) Alexander Andrianov Ioffe Physical Technical Institute, Russia <i>(Invited Speaker)</i> ID504- Excitonic THz luminescence from semiconductors</p> <p>(10:30-11:00) Humeyra ORUCU Ege Üniversitesi, Turkey <i>(Invited Speaker)</i> ID563- Luminescent Phosphors as Optical Temperature Sensing Materials</p> <p>(11:00-11:30) Ivana Panžić University of Zagreb, Croatia <i>(Invited speaker)</i> ID513- Influence of Al doping on morphology and electrical properties of ZnO nanorods</p> <p>(11:30-12:00) Jozef Chovan Slovak Centre of Scientific and Technical Information, International Laser Centre, Slovakia <i>(Invited speaker)</i> ID548- Temperature Stability of Fiber Array to Photonics Chip Butt Coupling</p>
12:00-13:15	LUNCH		
13:15-18:00	<p style="text-align: center;">SOCIAL PROGRAM</p> <p style="text-align: center;">13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS</p> <p style="text-align: center;"><i>(Gathering at Congress registration desk)</i></p>		

PROGRAM
TUESDAY, OCTOBER 19, 2021

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

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

PARALLEL SESSIONS 16:00-17:40	<p>Chairperson: Zdenko Vizintin</p> <p>(16:00-16:30) Zdenko Vizintin Fotona, Slovenia <i>(Invited Speaker)</i> ID531- Unique Features of Non-Ablative ERYAG Laser in Medical Therapies</p> <p>(16:30-16:50) Krzysztof Sielicki West Pomeranian University of Technology in Szczecin, Poland ID699- Single-atom catalyst based on Al-MOF for Oxygen Evolution Reaction</p> <p>(16:50-17:10) Klaudia Maślana West Pomeranian University of Technology, Poland ID700- Development of high active material based on nickel nanoparticles on cellulose platform for electrochemical applications</p>	<p>Chairperson: Leontin Padurariu</p> <p>(16:00-16:30) Leontin Padurariu Alexandru Ioan Cuza University of Iasi, Romania <i>(Invited Speaker)</i> ID1883- "Exploiting local field inhomogeneity for tuning functional properties in ferroelectric based composites"</p> <p>(16:30-16:50) Khaled Yousef Qatar University, Qatar ID1749- The effect of graphene structural integrity on the thermoelectric behavior of bismuth telluride</p> <p>(16:50-17:10) Yury Philippov Joint Institute for Nuclear Research, Russian Federation ID1834- Diagnostic tools for multiphase flows in cryogenics, LNG- and oil industry</p> <p>(17:10-17:40) Farid Abed American University of Sharjah, United Arab Emirates <i>(Invited Speaker)</i> ID1891- "Thermo-Mechanical Behavior of AISI 4140 and MMFX Steel at Different Temperatures and Strain Rates"</p>	<p>Chairperson: Elena Alekseeva</p> <p>(16:00-16:30) Elena Alekseeva Saint Petersburg University, Russian Federation <i>(Invited Speaker)</i> ID28- "Energy storage properties of NiSalen type polymer and its composites at low-temperature"</p> <p>(16:30-16:50) Oytun Erdemir ADM Elektrik Dağıtım A.Ş., Turkey ID49- Differentiating Technical and Non-Technical Losses in Electricity Distribution Systems</p> <p>(16:50-17:10) Ance Plavniece Latvian State Institute of Wood Chemistry, Latvia ID67- Biomass based Carbon Materials for Fuel Cells</p>
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PROGRAM									
WEDNESDAY, OCTOBER 20, 2021									
PLENARY SESSION 09:00-09:45	Chairperson: A.Yavuz Oral <div style="text-align: center;"> Thomas WEBSTER Northeastern University, USA PLENARY SPEAKER </div> <p style="text-align: center;">“The Past, Present, and Future of Nanomedicine: Battling COVID-19, Making Implantable Sensors, 4D Printing and More!”</p>								
09:45-10:00	COFFEE BREAK								
APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; text-align: center;">YUNUS EMRE 1</th> <th style="width: 33%; text-align: center;">ARISTO</th> <th style="width: 33%; text-align: center;">EFLATUN</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <i>Chairperson: George Kalosakas</i> (10:00-10:30) George Kalosakas University of Patras, Greece <i>(Invited Speaker)</i> ID1871- “Modeling phonons and mechanical properties of 2-dimensional materials” (10:30-11:00) Seniz R. Kushan Akin Çankaya University, Turkey <i>(Invited speaker)</i> ID388- “Antibacterial Properties of Si₃N₄ Based Ceramics” (11:00-11:20) Sanat Tolendiuly Institute of Combustion Problems, Kazakhstan ID1853- Study of Physico-Chemical Properties of Refractory Materials Synthesized from Metallurgical Waste (11:20-11:40) Sergey Gudoshnikov National University of Science and Technology «MISIS», Russian Federation ID1809- Scanning magnetometer based on a magnetoimpedance sensor for nondestructive evaluation of materials containing magnetic nanoparticles (11:40-12:00) Ramunas Levinas Vilnius University, Lithuania ID1744- SMARTELECTRODES: Scaling up from 2D to 3D Electrodes and Unifying Methods of their Catalytic Activity Characterization Using EIS </td> <td style="vertical-align: top;"> <i>Chairperson: Melinda David</i> (10:00-10:30) Melinda David Transilvania University of Brasov, Romania <i>(Invited Speaker)</i> ID391- “Electrochemical biotransducers for label-free analysis of biomolecules: from proof of concept to medical applications” (10:30-11:00) Philippe Mesini Institute Charles Sadron, France <i>(Invited Speaker)</i> ID552- “Study of the polymorphism of an organogel: nanotube to crystallites transition” (11:00-11:30) Jose Mustre Cinvestav, Mexico <i>(Invited Speaker)</i> ID471- “X-ray absorption near edge spectroscopy used to determine local atomic structure of ions in solution. The case of as in water” (11:30-11:50) Alexander Georgievich Savelyev FSRC «Crystallography and Photonics» RAS, Russian Federation ID381- Cell-friendly hydrogel fiber fabrication for biomedical applications </td> <td style="vertical-align: top;"> <i>Chairperson: Sergey Klimonsky</i> (10:00-10:30) Sergey Klimonsky Lomonosov Moscow State University, Russian Federation <i>(Invited Speaker)</i> ID559-SERS substrates from inverse opal photonic crystal films (10:30-11:00) Vesna Janicki Ruder Boskovic Institute, Croatia <i>(Invited Speaker)</i> ID550-Optical characterization of spin coated Ag/polymer nanocomposite film on soda-lime glass substrate (11:00-11:30) Victor Koledov Kotel’nikov Institute of Radioengineering and Electronics Russian Academy of Sciences, Russian Federation <i>(Invited Speaker)</i> ID553-Mechanical Nano-Manipulation for the Novel Single Photon Sources with Hybrid Nanoantennas (11:30-12:00) Svetlana Von Gratowski Kotel’nikov Institute of Radioengineering and Electronics Russian Academy of Sciences, Russian Federation <i>(Invited Speaker)</i> ID561-Creating CNT based devices for nanophotonics, nanoplasmonics, metasurfaces, THZ generation using nano-manipulation </td> </tr> </tbody> </table>				YUNUS EMRE 1	ARISTO	EFLATUN	<i>Chairperson: George Kalosakas</i> (10:00-10:30) George Kalosakas University of Patras, Greece <i>(Invited Speaker)</i> ID1871- “Modeling phonons and mechanical properties of 2-dimensional materials” (10:30-11:00) Seniz R. 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12:00-13:15	LUNCH								
13:15-18:00	SOCIAL PROGRAM 13:15-18:00 GHOST TOWN & BLUE LAGOON (Gathering at Congress registration desk)								

PROGRAM
THURSDAY, OCTOBER 21, 2021

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

PROGRAM
FRIDAY, OCTOBER 22, 2021

APMAS & ENEFM & INTERM & BIOMATSEN & NANOMACH & INTERPHOTONICS	
YUNUS EMRE 1	ARISTO
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">PARALLEL SESSIONS 10:00-12:00</p> <p>Chairperson: Henrikas Cesiulis</p> <p>(10:00-10:30) Henrikas Cesiulis JSC Elektronikos Perdirbimo Technologijos / Vilnius University, Vilnius, Lithuania <i>(Invited Speaker)</i> ID1739- "SMARTELECTRODES: new way of recovering metals from electronic waste by electrowinning"</p> <p>(10:30-11:00) Natalia Tintaru (Tsyntsaru) Institute of Applied Physics/Vilnius University, Moldova <i>(Invited Speaker)</i> ID1738- "SMARTELECTRODES: electrodeposited foams/nanostructured with large specific area suitable for catalytic, sensing and magnetic applications"</p> <p>(11:00-11:30) Cristina Elena Ciomaga Institute of Interdisciplinary Research, Al. I. Cuza University of Iasi, Romania <i>(Invited Speaker)</i> ID1886- "Effect of porosity on dielectric, ferroelectric and piezoelectric properties in BaTiO₃- based materials"</p> <p>(11:30-11:50) Cem Karakaya Mesan Kilit A.Ş., Turkey ID1884- Process Improvement Using Biodegradable Material Within the Scope of Sustainability</p>	<p>Chairperson: Albina Valeeva</p> <p>(10:00-10:30) Albina Valeeva Institute of Solid-State Chemistry of the Ural Branch of the Russian Academy of Sciences, Russian Federation <i>(Invited Speaker)</i> ID530- "In situ disordering of nonstoichiometric monoxides of IV-V groups by means of transmission electron microscope"</p> <p>(10:30-11:00) Alexandra Ushakova Gazpromneft-Technological Partnership, Russian Federation <i>(Invited Speaker)</i> ID18- "Enhanced Oil Recovery Methods for Shale Oil extraction from Bazhenov Formation"</p> <p>(11:00-11:30) Badica Petre National Institute of Materials Physics, Romania <i>(Invited Speaker)</i> ID37- "Bio-assessment of MgB₂"</p> <p>(11:30-12:00) Kirill Larin University of Houston, USA <i>(Invited Speaker)</i> ID475- Emerging Methods of Optical Elastography for Ocular Biomechanics</p>
12:00-13:15	LUNCH
13:15-18:00	<p>SOCIAL PROGRAM</p> <p>13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND</p> <p><i>(Gathering at Congress registration desk)</i></p>

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

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