

APMAS 2020
10th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE
CONGRESS & EXHIBITION

ENEFM 2020
6th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY & ENERGY RELATED
MATERIALS

INTERM 2020
7th INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

BIOMATSEN 2020
5th INTERNATIONAL CONGRESS ON BIOMATERIALS & BIOSENSORS

NANOMACH 2020
INTERNATIONAL CONFERENCE ON NANOMATERIALS, NANOFABRICATION AND
NANOCHARACTERIZATION

October 14-20, 2020

Zoom meeting link: <https://zoom.us/j/6190597990?pwd=REI3OUZTeTV1NUtVaU9zNzBlbTFVdz09>

ONLINE PROGRAM WEDNESDAY, OCTOBER 14, 2020	
SESSION 1	
OPENING SESSION 10:00-10:15	OPENING CEREMONY Ahmet Yavuz ORAL
PLENARY SESSION 10:15-11:00	Guy Le Lay Aix-Marseille University, France <i>(Plenary Speaker)</i> “Silicene, Medicine, and the Lancetgate”
11:00-11:15	COFFEE BREAK
INVITED SESSIONS 11:15-11:45	Michal Horak CEITEC, Brno University of Technology, Czech Republic <i>(Invited Speaker)</i> “Electron microscopy and spectroscopy in plasmonics”

INVITED SESSIONS 11:45-12:15	<p style="text-align: center;">Gökhan Gizer Helmholtz-Zentrum Geesthacht, Germany <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Role of Additives on the Kinetic and Thermodynamic Properties of Mg(NH₂)₂+LiH Reactive Hydride Composite”</p>
12:15-13:00	LUNCH
SESSION 2	
INVITED SESSIONS 13:00-13:30	<p style="text-align: center;">Wan Norfazilah Wan Ismail Universiti Malaysia Pahang, Malaysia <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Nanoencapsulated Aroma Finishing on Fabric by Sol-Gel Process”</p>
INVITED SESSION 13:30-14:00	<p style="text-align: center;">Darya Alontseva East-Kazakhstan State Technical University, Kazakhstan <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Using SEM to select optimal parameters for microplasma spraying and characterize biocompatible coatings”</p>
REGULAR SESSION 14:00-14:30	<p style="text-align: center;">Humeyra Orucu Ege University, Turkey <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Nanophosphors for Phosphor Based White Light Generation”</p>
14:30-14:40	COFFEE BREAK
INVITED SESSION 14:40-15:10	<p style="text-align: center;">Snezana Ilic-Stojanovic University of Nis, Serbia <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Dual stimuli-sensitive copolymer hydrogels: synthesis and characterization”</p>
REGULAR SESSION 15:10-15:30	<p style="text-align: center;">Gokcen Yasayan Marmara University, Turkey</p> <p style="text-align: center;">ID329-BIOMATSEN2020-“Evaluation of nanotextured films encapsulating doxorubicin hydrochloride for drug delivery applications”</p>
INVITED SESSION 15:30-16:00	<p style="text-align: center;">Sherif S. Sherif University of Manitoba, Canada <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Sparsity-Based Spectral Unmixing of Hyperspectral Imaging Data Using Kronecker Least Angle Regression”</p>

REGULAR SESSION 16:00-16:20	Beste Korutlu TÜBİTAK UME, Turkey ID1613-APMAS2020 -“Plasma Studies in TÜBİTAK National Metrology Institute”
REGULAR SESSION 16:20-16:40	Hacı Ahmedov TUBİTAK UME, Turkey ID1624-APMAS2020 -“Advances in UME Langmuir Probe”

ONLINE PROGRAM THURSDAY, OCTOBER 15, 2020	
SESSION 3	
INVITED SESSION 10:00-10:30	Jinyang Xu Shanghai Jiao Tong University, China <i>(Invited Speaker)</i> “Drilling Studies of High-Strength CFRP Composites Using Specialized Drills”
INVITED SESSION 10:30-11:00	Loreta Tamašauskaitė-Tamašiūnaitė State Research Institute Center for Physical Sciences and Technology, Lithuania <i>(Invited Speaker)</i> “Wood-Derived Carbon Materials for Fuel Cells”
11:00-11:15	COFFEE BREAK
INVITED SESSION 11:15-11:45	Mehmet Alp Ilgaz University of Ljubljana, Slovenia <i>(Invited Speaker)</i> “Interlocking and welding effect on the electrical machines”
REGULAR SESSION 11:45-12:05	Faruk Enes Oguz Kocaeli University, Turkey “ ID1696-APMAS2020 -Preliminary Idea for Bioalarm to Improve the Air Quality”
12:05-13:00	LUNCH
SESSION 4	

INVITED SESSION 13:00-13:30	Plamen I. Dankov Sofia University, Bulgaria <i>(Invited Speaker)</i> “Material Characterization in the Microwave Range – another look to the properties of modern artificial dielectrics”
REGULAR SESSION 13:30-13:50	Valeria Loise University of Calabria, Italy “ID656-NANOMACH2020- Stability of bituminous emulsions induced by new bio surfactants: physical chemistry characterization”
REGULAR SESSION 13:50-14:10	Seda Köksal Yeğın Farel Plastic Electric and Electronic Company, Turkey “ID1709-APMAS2020-Recycling of Painted and Varnished Akrilonitril Bütadien Stiren (ABS) Materials with Maleic Anhydrite Additives to Obtain ABS/PC Blend”
14:10-14:20	COFFEE BREAK
INVITED SESSION 14:20-14:50	Violeta Oro <i>(Invited Speaker)</i> Institute for Plant Protection and Environment, Serbia “Application of scanning electron microscopy reveals the nematode microbiota”
INVITED SESSION 14:50-15:20	Philippe Mésini <i>(Invited Speaker)</i> Institute Charles Sadron, France “Study of organogelators by freeze-fracture TEM”
15:20-15:30	COFFEE BREAK
INVITED SESSION 15:30-16:00	Filipe Mergulhao FEUP, Portugal <i>(Invited Speaker)</i> “Recombinant Protein Production in Biofilms: Opportunities, Challenges and How Microscopy Can Help”
INVITED SESSION 16:00-16:30	Ivan Kostic Slovak Academy of Sciences, Institute of Informatics, Slovak Republic <i>(Invited Speaker)</i> “Key Factors of Electron Beam Lithography in Research and Manufacturing”

ONLINE PROGRAM
FRIDAY, OCTOBER 16, 2020

SESSION 5

REGULAR SESSION 10:00-10:20	<p>Tinatin Dolidze I.Beritashvili Center of Experimental Biomedicine, Georgia</p> <p>“ID1622-APMAS2020-Interfacial electron transfer with azurin at Au/SAM junctions in contact with a protic ionic melt: Impact of glassy Dynamics”</p>
REGULAR SESSION 10:20-10:40	<p>Mina Raileanu Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH), Romania</p> <p>“ID1625-APMAS2020-Antimicrobial peptides as a new combination agent in cancer therapeutics”</p>
REGULAR SESSION 10:40-11:00	<p>Paolino Caputo University of Calabria, Italy</p> <p>“ID645-NANOMACH2020-Effectiveness of a new additive on the chemical structure of aged bitumen”</p>
11:00-11:10	COFFEE BREAK
REGULAR SESSION 11:10-11:30	<p>Sanat Tolendiuly Institute of Combustion Problems, Kazakhstan</p> <p>“ID1710-APMAS2020-The technology for producing refractory products based metallurgical production waste”</p>
REGULAR SESSION 11:30-11:50	<p>Dimitri Khoshtariya I.Javakhisvili Tbilisi State University, Tbilisi 0128, Georgia</p> <p>“ID1623-APMAS2020-The self-assembled, atomically defined bilayered Au/L-cysteine/Cu(II/I) junctions capable of coherent multiple electron/hole exchange”</p>
REGULAR SESSION 11:50-12:10	<p>Banu Oral Gebze Technical University, Turkey</p> <p>“ID1714-APMAS2020- “Electrochemical Nucleic Acid Detection Based on PNA prob”</p>
12:10-13:00	LUNCH
INVITED SESSION 13:00-13:30	<p>Taras Kavetsky Drohobych Ivan Franko State Pedagogical University, Ukraine <i>(Invited Speaker)</i></p> <p>“New types of amperometric enzyme biosensors based on novel polymer matrixes and micro/nanocomposites for xenobiotics analysis in wastewater”</p>

REGULAR SESSION 13:30-13:50	<p style="text-align: center;">Alexander G. Savelyev FSRC «Crystallography and Photonics» RAS, Russian Federation</p> <p style="text-align: center;">“ID328-BIOMATSEN2020-Hydrogel scaffold formation in turbid medium of biotissue via photocrosslinking”</p>
13:50-14:00	COFFEE BREAK
PLENARY SESSION 14:00-14:45	<p style="text-align: center;">Thomas J. Webster Northeastern University, USA <i>(Plenary Speaker)</i></p> <p style="text-align: center;">“Are Better Medical Devices Enough to Improve Healthcare?”</p>
INVITED SESSION 14:45-15:15	<p style="text-align: center;">Mohd Rosdzimin Abdul Rahman Universiti Pertahanan Nasional Malaysia, Malaysia <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Study on hybrid nanofluid exposed to radiation and heat generation”</p>
INVITED SESSION 15:15-15:45	<p style="text-align: center;">Aldona Balčiūnaitė Center for Physical Sciences and Technology, Lithuania <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Synthesis and characterizations of different catalysts for alkaline fuel cells”</p>
INVITED SESSION 15:45-16:15	<p style="text-align: center;">Xiaojiang Wu Shanghai Jiao Tong University, China <i>(Invited Speaker)</i></p> <p style="text-align: center;">“Research Progress of 650-700 °C Ultra Supercritical Coal-fired Power Generation Technology in China”</p>
REGULAR SESSION 16:15-16:35	<p style="text-align: center;">Francesca Ghirga Italian Institute of Technology (IIT), Italy</p> <p style="text-align: center;">“ID676-NANOMACH2020-Resorc [4] arene-based site directed immobilization of antibodies for immunosensors development”</p>