APMAS 2019

9th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE CONGRESS & EXHIBITION

ENEFM 2019 5th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY & ENERGY RELATED MATERIALS

OCTOBER 22-28, 2019

Sentido Lykia Resort & Spa-Liberty Hotels Lykia, Oludeniz MUGLA / TURKEY

	TENTATIVE P R O G R A M	
SUNDAY, OCTOBER 20, 2019		
14:00-23:30	14:00-23:30 REGISTRATION FOR EARLY ARRIVALS	
	(14:00 Check-in)	

	TENTATIVE P R O G R A M	
	MONDAY, OCTOBER 21, 2019	
9:00-23:30	REGISTRATION	
	(14:00 Check-in)	

	TENTATIVE P R O G R A M		
	TUESDAY, OCTOBER 22, 2019		
	HALL 1		
OPENING SESSION 11:00-11:15	Chairperson: A. Yavuz Oral OPENING CEREMONY		
_	Chairperson: A. Yavuz Oral		
SESSION 12:00	Daining Fang		
ENARY SE	(Plenary speaker)		
PLENARY 11:15-	"Smart Structures and 4D printing"		

	LUNCH			
	APMAS		ENEFM	
	HALL 1	HALL 2	HALL 5	
	Chairperson: Arkady Zhukov	Chairperson: Illia Fedorin	Chairperson: Peter Križan	
	(14:00-14:30)	(14:00-14:30)	(14:00-14:30)	
	Arkady Zhukov	Illia Fedorin	Peter Križan	
	University of Basque Country, Spain	National Technical University of Ukraine	STU in Bratislava, Slovakia	
	"Stress- induced Magnetic Anisotropy Enabling Engineering of	Igor Sikorsky Kyiv Polytechnic Institute, Ukraine	"Optimizing of densification process parameters for solid biofuels production using the mathematical modelling"	
<u> </u>	Magnetic Softness and Domain	"Topology states of iso-frequency surfaces	using the mathematical modelling	
:10	Wall Dynamics of Fe-rich	of a hypercrystal with ferrite and	(14:30-14:50)	
14:00-15:10	Amorphous Microwires"	semiconductor layers"	Loreta Tamašauskaitė-Tamašiūnaitė Center for Physical Sciences and Technology, Lithuania	
00:	(14:30-14:50)	(14:30-14:50)	ID36- Nitrogen-doped carbon supported gold nanoparticles as an efficient	
14:00-15:10	Masahiro Mikuriya	Yasin Bozkurt Yilmaz	catalyst for glucose and ethanol electro-oxidation	
Ĭ L	Kwansei Gakuin University, Japan ID1228- Magnetic Materials Based	Yıldız Technical University / Gizem Frit R&D Center, Turkey	(14:50-15:10)	
	on Dinuclear Copper(II)	ID1447- Investigation of Nickel Effects on	Eulbum Lee & Jaemin Cho	
	Trimethoxybenzoates	Matt Cast Iron Enamel	Pohang University of Science and Technology, Korea, Republic Of	
	(14:50 15:10)	(14:50 15:10)	ID40-Detail Engineering Completion Rating Index System (DECRIS) for Optimal Initiation of Construction Works to Improve Contractors' Schedule-Cost	
	(14:50-15:10) Azza Hadj Youssef	(14:50-15:10) Nurullah Copoglu	Performance for Offshore Oil and Gas EPC Projects	
	INRS, Centre Énergie Matériaux et	Yıldız Technical University / Gizem Frit		
	Télécommunications, Canada ID1376- Giant thermally	R&D Center, Turkey		
	modulated and stable step	ID1446- Optimizing the Migration Behavior of Vitreous Enamel Coatings		
	bunching on epitaxialy grown			
	SrTiO3 thin films on vicinal MgO (100) terraces			
	(100) terraces			
15:10- 15:30	COFFEE BREAK			
		APMAS	ENEFM	
	HALL 1	HALL 2	HALL 5	
	Chairperson: Marjeta Maček Kržmanc	Chairperson: Eduard Gevorkyan	Chairperson: Carmen Tuca	
NS	(15:20 16:00)	(15:30-16:00)	(15:30-16:00)	
5 0	(15:30-16:00)	Eduard Gevorkyan Plekhanov Russian University of	Carmen Tuca I Horia Hulubei National Institute for Physics and Nuclear Engineering, IFIN-H	
\sim \sim	i Marieta Macek Krzmanc			
SES! 16:3	Marjeta Maček Kržmanc Jožef Stefan Institute, Slovenia	Economics, Russian Federation	Romania	
30-16:30	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba,	"The Interaction Of Transition Radiation	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank	
ALLEL SESSI (15:30-16:30	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba, Ca)TiO3-based solid-solution	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic	Romania	
PARALLEL SES! 15:30-16:3	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba,	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic Magnetodielectric Filling Of A Waveguide"	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank dismantling" (16:00-16:30)	
PARALLEL SESS 15:30-16:3	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba, Ca)TiO3-based solid-solution plates: piezoelectric characteristics and phase transitions behavior"	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic Magnetodielectric Filling Of A Waveguide" (16:00-16:30)	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank dismantling" (16:00-16:30) Xujin Bao	
PARALLEL SES! 15:30-16:3	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba, Ca)TiO3-based solid-solution plates: piezoelectric characteristics and phase transitions behavior" (16:00-16:30)	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic Magnetodielectric Filling Of A Waveguide" (16:00-16:30) Zhen WU	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank dismantling" (16:00-16:30) Xujin Bao Loughborough University, UK	
PARALLEL SES! 15:30-16:3	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba, Ca)TiO3-based solid-solution plates: piezoelectric characteristics and phase transitions behavior" (16:00-16:30) Jinyang Xu Shanghai Jiao Tong University,	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic Magnetodielectric Filling Of A Waveguide" (16:00-16:30) Zhen WU Xi'an Jiaotong University, China " Computational design of novel high-	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank dismantling" (16:00-16:30) Xujin Bao	
PARALLEL SES! 15:30-16:3	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba, Ca)TiO3-based solid-solution plates: piezoelectric characteristics and phase transitions behavior" (16:00-16:30) Jinyang Xu Shanghai Jiao Tong University, China	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic Magnetodielectric Filling Of A Waveguide" (16:00-16:30) Zhen WU Xi'an Jiaotong University, China " Computational design of novel high-capacity Mg-based materials for hydrogen	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank dismantling" (16:00-16:30) Xujin Bao Loughborough University, UK	
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PARALLEL 19:30- 12:30	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba, Ca)TiO3-based solid-solution plates: piezoelectric characteristics and phase transitions behavior" (16:00-16:30) Jinyang Xu Shanghai Jiao Tong University, China " Machining Challenges and Solutions to Aerospace Grade Composite-Titanium Stacks" COFFEE BREAK FOYER (Poster Session Are	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic Magnetodielectric Filling Of A Waveguide" (16:00-16:30) Zhen WU Xi'an Jiaotong University, China " Computational design of novel high-capacity Mg-based materials for hydrogen storage"	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank dismantling" (16:00-16:30) Xujin Bao Loughborough University, UK	
PARALLEL 10:30- 12:30-	Jožef Stefan Institute, Slovenia "Compositional engineering of (Ba, Ca)TiO3-based solid-solution plates: piezoelectric characteristics and phase transitions behavior" (16:00-16:30) Jinyang Xu Shanghai Jiao Tong University, China " Machining Challenges and Solutions to Aerospace Grade Composite-Titanium Stacks" COFFEE BREAK FOYER (Poster Session Are Chairperson: A. Yavuz Oral	"The Interaction Of Transition Radiation Of A Charged Particle With An Anisotropic Magnetodielectric Filling Of A Waveguide" (16:00-16:30) Zhen WU Xi'an Jiaotong University, China " Computational design of novel high-capacity Mg-based materials for hydrogen storage"	Romania "Radiological issues on the VVR-S nuclear research reactor buffer tank dismantling" (16:00-16:30) Xujin Bao Loughborough University, UK	
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TENTATIVE PROGRAM					
	WEDNESDAY, OCTOBER 23, 2019				
	APMAS	ENEFM			
	HALL 1	HALL 5			
	Chairperson: Andreja Bencan Golob	Chairperson: Yaeko Mitsumori			
0:00-12:00	(10:00-10:30) Andreja Bencan Golob Jozef Stefan Institute, Slovenia "Designing domain walls in bismuth ferrite by controlling the type and concentration of defects"	(10:00-10:30) Yaeko Mitsumori Osaka University, Japan "Japan gears up Renewable Energy Usage after 3.11 – A Case Study of a Small Hydropower Plant in Osaka"			
PARALLEL SESSIONS 10:00-12:00	(10:30-11:00) Vitezslav Benda Czech Technical University in Prague, Czech Republic "Photovoltaic cells and modules for future energy systems"	(10:30-11:00) Nikola Biliškov Rudjer Boskovic Institute, Zagreb, Croatia "Single- and Bimetallic Amidoboranes - Solid-State Synthesis and Decomposition"			
PARAL	(11:00-11:30) Matsuo Masaru Dalian University of Technology, China "Heat Resistance of Conductive Filler-Polymer Composites evaluated by Dynamic Tensile Modulus under Electric field and Dielectric Measurement"	(11:00-11:30) Monica Siroux INSA STRASBOURG ICUBE STRASBOURG UNIVERSITY, France "Hybrid photovoltaic/thermal PVT panels. State of the art and recent R&D activities"			
	(11:30-12:00) Miroslav Cvetinov University of Novi Sad, Serbia "Challenges Of Infrared Reflectography In Artwork Conservation Process"	(11:30-12:00) Moo Hwan Cho Yeungnam University, Korea, Republic Of "Development of anode and cathode materials for Microbial Fuel Cells"			
12:00- 13:15	LUNCH				
	SOCIAL PROGRAM				
13:15-18:00	13:15-18:00 GHOST TOWN & BLUE LAGOON TOUR				
	(Gathering at Congress registration desk)				

TENTATIVE P R O G R A M			
	THURSDAY, OCTOBER 24, 2019		
	Chairperson: Ersin Kayahan	have Oia s	
ESSION 0:30	Shizhang Qiao The University of Adelaide, Australia		
PLENARY SESSION 09:45-10:30	(Plen	ary speaker)	
14	u u	XXXXX "	
10:30- 11:00			
	APMAS	ENEFM	
	HALL 1	HALL 5	
PARALLEL SESSIONS 11:00-12:30	Chairperson: Nerija Zurauskiene (11:00-11:30) Nerija Zurauskiene Center for Physical Sciences and Technology, Lithuania "Nanostructured lanthanum manganite films grown by pulsed-injection MOCVD: tuning the magnetoresistive properties for magnetic field sensors applications" (11:30-12:00) Satoshi Kokado Shizuoka University, Japan "Theoretical Study on Anisotropic Magnetoresistance Effect for Ferromagnets" (12:00-12:30) Victor Rouco Gomez CNRS Thales, Université Paris-Sud, France "Tunnel Electroresistance in Superconducting/Ferroelectric Junctions"	Chairperson: Abosalah Elmehdi (11:00-11:30) Abosalah Elmehdi Azzaytuna University, Libya "Frequency Synchronization of an PV Generation System Using PLL Technique" (11:30-12:00) Thomas Waas OTH Regensburg, Germany "Energy monitoring and saving in medium-sized companies" (12:00-12:20) Waqas Ul Arifeen Yeungnam University, Korea, Republic Of ID39-Thermally stable hybrid (polyacrylonitrile based) electrospun nanofibrous membrane for separator of lithium ion batteries	
12:30- 14:00	LUNCH		
PARALLEL SESSIONS 14:00- 16:00	APMAS	ENEFM	
PARI SESSION 16:	HALL 1	HALL 5	

Chairperson: Gabriel Potirniche Chairperson: Balázs Kulcsár (14:00-14:30) (14:00-14:30) **Gabriel Potirniche** Balázs Kulcsár University of Idaho, USA University of Debrecen Faculty of Engineering, Hungary "Development of computational simulation tools for fatigue and creep-fatigue "Settlement renewable energy production and sharing energy" crack growth in metallic alloys at elevated temperatures" (14:30-15:00) (14:30-15:00) Elisa Carlucci Li XIN BHGE, italy Institute of Metal Research, CAS, China "Preventive Maintenance And Spare Parts Management Optimization In Natural Gas "Effects of Si addition on oxidation of TiAIN coating deposited on titanium Pipelines Operating Under Variable Conditions Across The Year" andy-TiAl based alloys" (15:00-15:30) (15:00-15:30) **Sunney Chan** Academia Sinica, Taiwan Felix N Chukhovskii Shubnikov Institute of Crystallography, Federal Scientific Research Centre "Taming methane" "Crystallography and Photonics", Russian Academy of Sciences, Russia "Challenges Of The Inverse Problem Of The X-Ray Diffraction Tomography. (15:30-16:00) Theory, Formulas And Computer Iterative Algorithms Towards The 3D Jim P. Zheng Recovery Of Elastic Static Displacement Field Around The Point-Defects In A Florida State University, USA Crystal" "Pre-lithated carbon electrodes for high power and long cycle life energy storage (15:30-16:00) **Alexey Mironov** ISP SB RAS, Russian Federation "Effects of perforation on thin superconducting films" 16:00-**COFFEE BREAK** 17:00 **FOYER (Poster Session Area)** 17:00-18:00 Chairperson: A. Yavuz Oral **POSTER SESSION – II** (APMAS2019-ENEFM2019)

TENTATIVE P R O G R A M			
	FRIDAY, OCTOBER 25, 2019		
	APMAS	ENEFM	
	HALL 1	HALL 5	
	Chairperson: Serap Dalgic	Chairperson: Jerzy Mizeraczyk	
PARALLEL SESSIONS 10:00-12:00	Serap Dalgic Trakya University, Turkey " 2D Ru-Ni/ Graphene Hybrid Nanostructures : A Molecular Dynamics Investigation" (10:30-11:00) George Kalosakas University of Patras, Greece " Uniaxial compression and buckling of graphenes" (11:00-11:30) Yoothana Suansook Defence Technology Institute, Thailand " Past Present and Future of Fractional Dynamics" (11:30-12:00) Ying Li Institute of Metal Research, China " Probing the combined self-repairing and antifouling multi-functionalities of polymer coatings doped with clay nanotubes treated with pH-responsive hydrogels: combined spectroscopic and EIS approaches"	(10:00-10:30) Jerzy Mizeraczyk Gdynia Maritime University, Poland "Hydrogen production by microwave plasma biogas reforming" (10:30-11:00) Viacheslav Nikitin Melentiev Energy Systems Institute of SB RAS, Russian Federation "The Modeling of planned Hydroelectric Power Plants influence on the ecosystem" (11:00-11:30) Zhixin Wang Shanghai Jiao Tong University, China "Research on the Application of Multi-Energy Complementary Coordination and Optimization of Distributed Renewable Energy" (11:30-12:00) Juan M. Guerra Institut für Theoretische Physik, Germany "XXXX"	
12:00- 13:15	LUNCH		
13:15- 18:00	SOCIAL PROGRAM		
	13:15-18:00 FETHIYE CITY/SHOPPING TOUR & THE ROCK TO	MBS	
	(Gathering at Congress registration desk)		

	TENTATIVE P R O G R A M		
	SATURDAY, OCTOBER 26, 2019		
	Chairperson: Ersin Kayahan		
z	Geoffrey Qiping Shen		
PLENARY SESSION 09:45-10:30	The Hong Kong Polytechnic University, Hong Kong		
PLENAR' 09:45	(Plenary speaker)		
	"XXXXX"		
10:30- 11:00	COFFEE BREAK		

	APMAS	<i>ENEFM</i>
	HALL 1	HALL 5
	Chairperson: Pinqiang Dai	Chairperson: Zhiqiang Wu
PARALLEL SESSIONS 11:00-12:30	(11:00-11:30) Pinqiang Dai Fujian University of Technology, China "Study on microstructure and properties of high-entropy alloys prepared by powder metallurgy" (11:30-12:00) Bohdan Padlyak University of Zielona Góra, Poland "Enhancement of the RE3+ ions luminescence in RE-Ag co-doped borate glasses" (12:00-12:30) Yuan Yuan Chongqing University, China "Improvement of the Sulfur Corrosion Resistance of Copper Windings by using Grain Boundary Engineering (GBE) and Its Effect for Oil-paper Insulation"	 (11:00-11:30) Zhiqiang Wu Xi'an Jiaotong University, China "Waste energy recovery from furnace slag of steel industrial based on chemical method: thermochemical behavior of biomass" (11:30-12:00) Bo-Lun Yang Xi'an Jiaotong University, China "Synergistic Effect from Co-pyrolysis of Low-rank coal and Microalgae: Products Distribution, kinetic characteristics, and Radical Analysis" (12:00-12:30) Hsiharng Yang National Chung Hsing University, Taiwan "Non-Platinum Gas Diffusion Electrode Preparation for Anion Exchange Membrane Fuel Cells"
12:30- 14:00	LUNCH	
	APMAS HALL 1	ENEFM HALL 5
	Chairperson: Jiri Brozek	Chairperson: Charlotta Sanders
ALLEL SESSIONS 14:00-16:10		
ARALLEL SESSIONS $14:00$ - $16:10$	(14:00-14:30) Jiri Brozek University of Chemistry and Technology Prague, Czech Republic "Advanced polymeric materials and preserving of polymer objects" (14:30-14:50) Yunus Emre Simsek Bilecik Şeyh Edebali University, Turkey ID1397- Modeling and optimization of experimental parameters for the removal of heavy metal and production of porous adsorbents by RSM and ANN techniques (14:50-15:10) Roman Semenko Novosibirsk State University, Russian Federation ID1216- Vortex motion of an incompressible polymeric liquid	(14:00-14:30) Charlotta Sanders World Nuclear Association, UK "Achieving Energy Efficiency through the Harmonization of the Energy Market" (14:30-14:50) Manuel Frondel RWI, Germany ID21-Drivers' Response to Fuel Taxes and Efficiency Standards: Evidence from Germany (14:50-15:10) Marcin Holub West Pomeranian University of Technology, Poland ID133- Energy efficiency of small waste water treatment plants in the Baltic Sea region — a comparative case study
PARALLEL SESSIONS 14:00-16:10	Jiri Brozek University of Chemistry and Technology Prague, Czech Republic "Advanced polymeric materials and preserving of polymer objects" (14:30-14:50) Yunus Emre Simsek Bilecik Şeyh Edebali University, Turkey ID1397- Modeling and optimization of experimental parameters for the removal of heavy metal and production of porous adsorbents by RSM and ANN techniques (14:50-15:10) Roman Semenko Novosibirsk State University, Russian Federation	Charlotta Sanders World Nuclear Association, UK "Achieving Energy Efficiency through the Harmonization of the Energy Market" (14:30-14:50) Manuel Frondel RWI, Germany ID21-Drivers' Response to Fuel Taxes and Efficiency Standards: Evidence from Germany (14:50-15:10) Marcin Holub West Pomeranian University of Technology, Poland ID133- Energy efficiency of small waste water treatment plants in the Baltic Sea

	FOYER (Poster Session Area)
	Chairperson: A. Yavuz Oral
17:00- 18:00	POSTER SESSION – III
	(APMAS2019-ENEFM2019)

TENTATIVE P R O G R A M			
	SUNDAY, OCTOBER 27, 2019		
	APMAS	ENEFM	
	HALL 1	HALL 5	
	Chairperson: Minoru Watanabe	Chairperson: Vladislav A. Sadykov	
PARALLEL SESSIONS 10:00-12:00	Minoru Watanabe Shizuoka University, Japan "Radiation-hardened system design" (10:30-11:00) Guozhang Wu East China University of Science & Technology, China "β-Relaxation Governs Damping Stability of Phenol/Acrylate Hybrids" (11:00-11:30) Seongtae Bae University of South Carolina, USA "Magnetic Nanofluid Hyperthermia with Exceptionally High AC Magnetic Heat Induction Using Newly Developed Mg shallow-doped γ-Fe2O3 Nanoparticles for Cancer Clinics" (11:30-12:00) Andrey Drozdov ITMO University, Russian Federation "Sol-gel derived magnetite for biomedical applications"	Vladislav A. Sadykov Boreskov Institute of catalysis SB RAS, Novosibirsk State University, Russian Federation "Nanocomposite Catalysts Of Biofuels Transformation Into Syngas: Design, Reaction Mechanism And Performance" (10:30-11:00) Jan Vcelak CVUT UCEEB, Czech Republic "Novel Heating and Cooling Technology as a Flexible Load for Optimized PV Utilization in buildings" (11:00-11:30) Emmanuel Stamatakis NCSR Demokritos, Greece "New materials for efficient hydrogen storage and hydrogen compression" (11:30-12:00) Jaakko Puhakka Tampere University, Finland "xxxx"	
12:00- 13:15	LUNCH		
13:15- 18:00	SOCIAL PROGRAM 13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS ((Gathering at Congress registration desk)	OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND	

	TENTATIVE P R O G R A M		
	MONDAY, OCTOBER 28, 2019		
	APMAS & ENEFM		
	HALL 1		
.11:3	Chairperson: Jianxin Geng		
PARALLEL SESSIONS 10:00-11:30	(10:00-10:30) Jianxin Geng Beijing University of Chemical Technology, China "Carbon Nanomaterials/Polymers Nanocomposites and Electrochemical Energy Storage"		
	(10:30-11:00) Yoshiei KATO Okayama University, Japan "Possibility of silicon recycling from waste crystalline solar cells by a cascade process of metallic floatation and chemical etching"		
	(11:00-11:30) Alexander Vasiliev Nuclear Safety Institute, Russian Federation "xxx"		
12:00	Hotel Check Out		

PROGRAM LEGEND DESCRIPTIONS	
ID-	APMAS 2019 oral presentations
ID-	ENEFM 2019 oral presentations