

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

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| PROGRAM <i>SUNDAY, OCTOBER 20, 2019</i> | |
| <i>14:00-23:30</i> | REGISTRATION FOR EARLY ARRIVALS <i>(14:00 Check-in)</i> |

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| PROGRAM <i>MONDAY, OCTOBER 21, 2019</i> | |
| <i>9:00-23:30</i> | REGISTRATION <i>(14:00 Check-in)</i> |
| <i>09:00-18:00</i> | SOCIAL PROGRAM SAKLIKENT JEEP SAFARI TOUR |

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| PROGRAM <i>TUESDAY, OCTOBER 22, 2019</i> | |
| <i>11:00-11:15</i> | WELCOME COFFEE FOYER |
| YUNUS EMRE I | |
| OPENING SESSION <i>11:15-11:30</i> | Chairperson: A. Yavuz Oral OPENING CEREMONY |

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| 11:30-12:00 | <p><i>Chairperson: A. Yavuz Oral</i></p> <p>Nasrin Al Nasiri Imperial College London, UK</p> <p>“Processing, Characterization and Testing of Environmental Barrier Coatings for SiC/SiC CMCs”</p> |
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| 12:30-14:00 | LUNCH | | | |
| PARALLEL SESSIONS 14:00-15:20 | APMAS | | ENEFM | |
| | YUNUS EMRE 1 | EFLATUN | ARISTO | HIPOKRAT |
| | <p><i>Chairperson: Diya Alhaq Alsafadi</i></p> <p>(14:00-14:30) Diya Alhaq Alsafadi Royal Scientific Society, Jordan “Production of Biodegradable Plastic Polyhydroxyalkanoates from Low-cost Substrates for Industrial Applications”</p> <p>(14:30-14:50) Masahiro Mikuriya Kwansei Gakuin University, Japan ID1228- Magnetic Materials Based on Dinuclear Copper(II) Trimethoxybenzoates</p> <p>(14:50-15:20) Yu-Qing Lou Tsinghua University, China “Magnetized Relativistic Pulsar Winds”</p> | <p><i>Chairperson: Illia Fedorin</i></p> <p>(14:00-14:30) Illia Fedorin National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute, Ukraine “Topology States of Iso-frequency Surfaces of a Hypercrystal with Ferrite and Semiconductor Layers”</p> <p>(14:30-14:50) Yasin Bozkurt Yilmaz Yildiz Technical University / Gizem Frit R&D Center, Turkey ID1447- Investigation of Nickel Effects on Matt Cast Iron Enamel</p> <p>(14:50-15:10) Nurullah Copoglu Yildiz Technical University / Gizem Frit R&D Center, Turkey ID1446- Optimizing the Migration Behavior of Vitreous Enamel Coatings</p> | <p><i>Chairperson: Shuang Li</i></p> <p>(14:00-14:30) Shuang Li Northwest University, China “Thermo-conversion of Biomass to High Value-added Chemicals”</p> <p>(14:30-14:50) Rongjian Pan Nuclear Power Institute of China, China ID161- The Stability of α-Zr with Different Concentration of Vacancy and Alloying Elements: A first-principles Study</p> <p>(14:50-15:10) Gao Gentao Nuclear Power Institute of China, China ID207- Study on Hydrogen Resistance Behavior of the Al₂O₃/Fe-Al</p> | <p><i>Chairperson: Peter Križan</i></p> <p>(14:00-14:30) Peter Križan STU in Bratislava, Slovakia “Optimizing of Densification Process Parameters for Solid Biofuels Production Using the Mathematical Modelling”</p> <p>(14:30-14:50) Loreta Tamašauskaitė-Tamašiūnaitė Center for Physical Sciences and Technology, Lithuania ID36- Nitrogen-doped Carbon Supported Gold Nanoparticles as an Efficient Catalyst for Glucose and Ethanol Electro-oxidation</p> <p>(14:50-15:10) Eulbum Lee & Jaemin Cho Pohang University of Science and Technology, Korea, Republic Of ID40- Detail Engineering Completion Rating Index System (DECRIIS) for Optimal Initiation of Construction Works to Improve Contractors’ Schedule-Cost Performance for Offshore Oil and Gas EPC Projects</p> |
| | 15:20-15:30 | | | |
| COFFEE BREAK | | | | |
| PARALLEL SESSIONS 15:30-17:10 | APMAS | | APMAS & ENEFM | ENEFM |
| | YUNUS EMRE 1 | EFLATUN | ARISTO | HIPOKRAT |

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| | <p><i>Chairperson: Marjeta Maček Kržmanc</i></p> <p>(15:30-16:00) Marjeta Maček Kržmanc Jožef Stefan Institute, Slovenia “Compositional Engineering of (Ba, Ca)TiO₃-based Solid-solution Plates: Piezoelectric Characteristics and Phase Transitions Behavior”</p> <p>(16:00-16:30) Jinyang Xu Shanghai Jiao Tong University, China “Machining Challenges and Solutions to Aerospace Grade Composite-Titanium Stacks”</p> <p>(16:30-17:00) Tatheer Zahra Queensland University of Technology, Australia “Role of Auxetic Composites in Protection of Building Materials and Structures”</p> | <p><i>Chairperson: Guillaume Nataf</i></p> <p>(15:30-16:00) Guillaume Nataf University of Cambridge, UK “Multiferroic Domain Walls in Ferroelastic Materials”</p> <p>(16:00-16:30) Zhen Wu Xi'an Jiaotong University, China “Computational Design of Novel High-capacity Mg-based Materials for Hydrogen Storage”</p> <p>(16:30-16:50) Svetlana Rempel Institute of Solid State Chemistry, Ural Branch of the Russian Academy of Sciences, Russian Federation ID1361- Self-assembly of Colloidal Nanoparticles Ag₂S in Water Solution</p> <p>(16:50-17:10) Charles Hervochoes Nuclear Physics Institute ASCR, v.v.i., Dept. of Neutron Physics, 25068 Řež, Czech Republic ID1439- Neutron Diffraction Analysis of Cold Rotary Swaged Tungsten Heavy Alloys and Other Engineering Materials at CANAM Infrastructure</p> | <p><i>Chairperson: Chanapa Kongmark</i></p> <p>(15:30-16:00) Chanapa Kongmark Kasetsart University, Thailand “Formation Mechanism, Structure, Magnetic and Photocatalytic Properties of Aluminate and Ferrite Spinel”</p> <p>(16:00-16:20) Chaitanya Ghodake Bharat Forge LTD, India ID1527- Measurement of Heat Transfer Coefficient in Interaction Zone of Multiple Liquid Jet Impingements</p> <p>(16:20-16:40) Denghua Chen China Nuclear Power Engineering Co., Ltd, China ID212- CNNC PWR Designs and Their Latest News</p> <p>(16:40-17:10) Marta Galbiati Unité Mixte de Physique CNRS/Thales, France “Introducing 2D Materials for Magnetic Tunnel Junctions”</p> | <p><i>Chairperson: Carmen Tuca</i></p> <p>(15:30-16:00) Carmen Tuca I Horia Hulubei National Institute for Physics and Nuclear Engineering, IFIN-HH, Romania “Radiological Issues on the VVR-S Nuclear Research Reactor Buffer Tank Dismantling”</p> <p>(16:00-16:30) Xujin Bao Loughborough University, UK “Poly(2,5-benzimidazole) Nanocomposite PEMs for FC Application”</p> <p>(16:30-17 :00) Erliza Noor IPB University, Indonesia “Efficiency of DSSC on the Variation of Chlorophyll Dye Concentration Extracted from Sargassum Sp”</p> |
| 17:10-17:30 | COFFEE BREAK | | | |
| 17:30-18:30 | <p>FOYER (Poster Session Area)</p> <p>Chairperson: A. Yavuz Oral</p> <p>POSTER SESSION – I</p> <p>(APMAS2019-ENEFM2019)</p> | | | |

PROGRAM
WEDNESDAY, OCTOBER 23, 2019

| PROGRAM | | | |
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| WEDNESDAY, OCTOBER 23, 2019 | | | |
| | APMAS | | ENEFM |
| | YUNUS EMRE 1 | EFLATUN | ARISTO |
| PARALLEL SESSIONS 10:00-12:00 | <p><i>Chairperson: Andreja Bencan Golob</i></p> <p>(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"</p> <p>(10:30-11:00) Vitezslav Benda Czech Technical University in Prague, Czech Republic "Photovoltaic Cells and Modules for Future Energy Systems"</p> <p>(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"</p> <p>(11:30-12:00) Jiri Brozek University of Chemistry and Technology Prague, Czech Republic "Advanced Polymeric Materials and Preserving of Polymer Objects"</p> | <p><i>Chairperson: Arkady Zhukov</i></p> <p>(10:00-10:30) Arkady Zhukov University of Basque Country, Spain "Stress-induced Magnetic Anisotropy Enabling Engineering of Magnetic Softness and Domain Wall Dynamics of Fe-rich Amorphous Microwires"</p> <p>(10:30-11:00) John Nicholas Karadelis Coventry University, UK "Advances in Polymer Enriched Concrete for Strengthening Concrete Roads and Airfields: The Case of Green Overlays"</p> <p>(11:00-11:20) Albina Valeeva Institute of Solid State Chemistry of the Ural Branch of the Russian Academy of Sciences, Russian Federation ID1353-Transition Metal Oxide Materials with a Nonstoichiometry</p> <p>(11:20-11:40) Vidit Gaur Indian Institute of Technology Roorkee, India ID1335- Prediction of Fatigue Lives of Aluminum Alloys Using Crystal Plasticity Framework</p> <p>(11:40-12:00) Ján Dugáček Masarykova Univerzita, Czech Republic ID1352- A Computational Model of Chemical Reactions Occurring during Thermal Desorption Spectroscopy</p> | <p><i>Chairperson: Yaeko Mitsumori</i></p> <p>(10:00-10:30) Yaeko Mitsumori Osaka University, Japan "An Analysis of the Social and Economic Impact of a Community Revitalizing Project Utilizing a Small Hydropower Plant"</p> <p>(10:30-11:00) Alex Bondarchuk International Iberian Nanotechnology laboratory, Portugal "Accessing Electronic Structure of Electrode-Electrolyte Interface: Surface Science Approach"</p> <p>(11:00-11:30) Moo Hwan Cho Yeungnam University, Korea, Republic Of "Development of Anode and Cathode Materials for Microbial Fuel Cells"</p> <p>(11:30-12:00) Ajay P. Thakare Sipna College of Engg and Technology, India "Wind Farming: India Perspective, A Case Study"</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 GHOST TOWN & BLUE LAGOON TOUR</p> <p style="text-align: center;"><i>(Gathering at Congress registration desk)</i></p> | | |

PROGRAM
THURSDAY, OCTOBER 24, 2019

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| THURSDAY, OCTOBER 24, 2019 | | | |
| PARALLEL SESSIONS 10:30-12:30 | APMAS | | ENEFM |
| | YUNUS EMRE 1 | EFLATUN | ARISTO |
| | <p><i>Chairperson: Nerija Zurauskiene</i></p> <p><i>(10:30-11:00)</i> 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"</p> <p><i>(11:00-11:30)</i> Satoshi Kokado Shizuoka University, Japan "Theoretical Study on Anisotropic Magnetoresistance Effect for Ferromagnets"</p> <p><i>(11:30-12:00)</i> Victor Rouco Gomez CNRS Thales, Université Paris-Sud, France "Tunnel Electroresistance in Superconducting/Ferroelectric Junctions"</p> <p><i>(12:00-12:20)</i> Khaled Youssef Qatar University, Qatar ID1375- The Influence of Twinning on the Tensile Properties of Nanocrystalline Light Weight Aluminum Alloys</p> | <p><i>Chairperson: Andreja Gajovic</i></p> <p><i>(10:30-11:00)</i> Andreja Gajovic Ruđer Bošković Institute, Croatia "Modified TiO₂ Based Nanostructures for Photocatalysis"</p> <p><i>(11:00-11:30)</i> Zvezdana Bascarevic Institute for Multidisciplinary Research Belgrade University, Serbia "Methods to Improve Fly Ash Reactivity and Increase Its Reuse Potential in Construction Materials Industry"</p> <p><i>(11:30-11:50)</i> Asha Attri ITER-India (Institute for Plasma Physics), India ID1324- Blister Formation in Tungsten by Deuterium Ion Irradiation: Energy and Fluence Dependent Study</p> <p><i>(11:50-12 :10)</i> Azza Hadj Youssef INRS, Centre Énergie Matériaux et Télécommunications, Canada ID1376- Giant Thermally Modulated and Stable Step Bunching on Epitaxially Grown SrTiO₃ Thin Films on Vicinal MgO (100) Terraces</p> | <p><i>Chairperson: Abosalah Elmehdi</i></p> <p><i>(10:30-11:00)</i> Abosalah Elmehdi Azzaytuna University, Libya "Frequency Synchronization of an PV Generation System Using PLL Technique"</p> <p><i>(11:00-11:30)</i> Thomas Waas OTH Regensburg, Germany "Energy Monitoring and Saving in Medium-sized Companies"</p> <p><i>(11:30-11:50)</i> Waqas Ul Arifeen Yeungnam University, Korea, Republic Of ID39- Thermally Stable Hybrid (Polyacrylonitrile Based) Electrospun Nanofibrous Membrane for Separator of Lithium Ion Batteries</p> <p><i>(11:50-12 :10)</i> Maria Kopsakangas-Savolainen Finnish Environment Institute, Finland ID134- Virtual Power Plant Operation with Solar Power Forecast Errors and Demand Response</p> |
| 12:30-14:00 | LUNCH | | |
| PARALLEL SESSIONS 14:00-17:00 | APMAS | | ENEFM |
| | YUNUS EMRE 1 | EFLATUN | ARISTO |

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| | <p><i>Chairperson: Gabriel Potirniche</i></p> <p>(14:00-14:30) Gabriel Potirniche University of Idaho, USA “Development of Computational Simulation Tools for Fatigue and Creep-fatigue Crack Growth in Metallic Alloys at Elevated Temperatures”</p> <p>(14:30-15:00) Petar Petrov Institute of Polymers – BAS, Bulgaria “Functional Block Copolymer Nanocarriers of Natural Polyphenols”</p> <p>(15:00-15:30) Alexey Mironov ISP SB RAS, Russian Federation “Effects of Perforation on Thin Superconducting Films”</p> <p>(15:30-16:00) Raed Abu-Reziq The Hebrew University of Jerusalem, Israel “Magnetic Catalysts and Their Applications”</p> <p>(16:00-16:20) Gamze Nur Aspar ID1421- Comparison of Nanoscale Adhesion Energies, Forces, Pull-off Distances and Repulsion Energies Measured between Bacterial Cells and Silicon Nitride under Water by AFM</p> <p>(16:20-16:40) Samed Halilov QEERI, HBKU, Doha, Qatar ID1217- Affinity-based Performance Analysis of Heterojunction p-i-n PV Cells</p> <p>(16:40-17:00) Mohammad Aljarrah The Hashemite University, Jordan ID1303- On the Choice of the Geometrical Extrapolation Models for the Mg-Al-Sr System: Experimental Investigation</p> | <p><i>Chairperson: Guozhang Wu</i></p> <p>(14:00-14:30) Guozhang Wu East China University of Science & Technology, China “β-Relaxation Governs Damping Stability of Phenol/Acrylate Hybrids”</p> <p>(14:30-14:50) Levent Colak Baskent University, Turkey ID138-The Impact of Direct Radiation Ratio on Performance of Tracking Photovoltaic Solar Systems</p> <p>(14:50-15:20) Zhiqiang Wu Xi’an Jiaotong University, China “Waste Energy Recovery from Furnace Slag of Steel Industrial Based on Dry Centrifugal Granulation Method: Heat Transfer Analysis on Moving Bed”</p> <p>(15:20-15:50) Bolun Yang Xi’an Jiaotong University, China “Synergistic Effect from Co-pyrolysis of Low-rank Coal and Microalgae: Products Distribution, Kinetic Characteristics, and Radical Analysis”</p> <p>(15:50-16:10) Adelino Ferreira University of Coimbra, Portugal ID236-Pavenergy Research Project – New Developments</p> <p>(16:10-16:40) Rashid K. Abu Al-Rub Khalifa University, United Arab Emirates “Novel Types of Additively Manufactured Micro-architected Multifunctional Shell-based Cellular Materials”</p> | <p><i>Chairperson: Francesco Liberati</i></p> <p>(14:00-14:30) Francesco Liberati Sapienza University of Rome, Italy “Model Based Control Algorithms for Electric Vehicles Recharging Management: From Vehicle to Grid Control”</p> <p>(14:30-15:00) Alice Elizabeth González Universidad de la República, Uruguay “Environmental Impact Assessment of Wind Farms: Noise Issues”</p> <p>(15:00-15:30) Fawzi Banat Khafifa University, United Arab Emirates “MoS₂ Hetro-dimensional Nano-structures Wrapped Graphene via Two-step Sonication Process for Hydrogen Evolution”</p> <p>(15:30-16:00) Sana`a Al-Zyoud Al al-Bayt University, Jordan “Geothermal Energy Potential for Future Utilization in Jordan”</p> <p>(16:00-16:30) Kamel Sidi-Ali Nuclear Reserach Centre of Draria, Algeria “Complex Fluid Flow in Power Nuclear Reactors Core; Cases of BWR, PBMR and HTR-PM”</p> |
| <p>17:00-17:30</p> | <p>COFFEE BREAK</p> | | |
| <p>17:30-18:30</p> | <p>FOYER (Poster Session Area)</p> <p>Chairperson: A. Yavuz Oral</p> <p>POSTER SESSION – II</p> <p>(APMAS2019-ENEFM2019)</p> | | |

PROGRAM
FRIDAY, OCTOBER 25, 2019

| | APMAS | ENEFM |
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| | YUNUS EMRE 1 | ARISTO |
| PARALLEL SESSIONS 10:00-12:00 | <p><i>Chairperson: Dong-Joo Lee</i></p> <p>(10:00-10:30) Dong-Joo Lee Yeungnam University, Republic of Korea "Effects of Material Constituent and Magnetic Field on Mechanical Properties of Magnetorheological Elastomers"</p> <p>(10:30-11:00) George Kalosakas University of Patras, Greece "Uniaxial Compression and Buckling of Graphenes"</p> <p>(11:00-11:20) Amal Khalid Elmubarak Daifalla Qatar University, Qatar ID1427- Piezoelectric Nanogenerators Based on PVDF-HFP/ZnO-Mesoporous Silica Nanocomposites for Self-powering Devices</p> <p>(11:20-11:50) Hendrik Oktendy Lintang Universitas Ma Chung, Indonesia "Mesoporous Silica Nanocomposites for Advanced Luminescent Chemosensor Materials: Design, Synthesis, Fabrication and Applications"</p> | <p><i>Chairperson: Jerzy Mizeraczyk</i></p> <p>(10:00-10:30) Jerzy Mizeraczyk Gdynia Maritime University, Poland "Hydrogen Production by Microwave Plasma Biogas Reforming"</p> <p>(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"</p> <p>(11:00-11:30) Juan M. Guerra Institut für Theoretische Physik, Germany "Ab Initio Parameters of Thermoelectric Magnesium Silicide Alloys"</p> <p>(11:30-12:00) Zhixin Wang Shanghai Jiao Tong University, China "Research on the Application of Multi-energy Complementary Coordination and Optimization of Distributed Renewable Energy"</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/SHOPPING TOUR & THE ROCK TOMBS</p> <p style="text-align: center;"><i>(Gathering at Congress registration desk)</i></p> | |

PROGRAM
SATURDAY, OCTOBER 26, 2019

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| | APMAS | ENEFM |
| | YUNUS EMRE 1 | ARISTO |
| PARALLEL SESSIONS 10:30-12:30 | <p><i>Chairperson: Pinqiang Dai</i></p> <p>(10:30-11:00) Pinqiang Dai Fujian University of Technology, China "Study on Microstructure and Properties of High-entropy Alloys Prepared by Powder Metallurgy"</p> <p>(11:00-11:30) Bohdan Padlyak University of Zielona Góra, Poland "Enhancement of the RE³⁺ Ions Luminescence in RE-Ag Co-doped Borate Glasses"</p> <p>(11:30-12:00) 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"</p> <p>(12:00-12:20) Zhanjiang Li Fujian University of Technology, China ID1355- Microstructure and Properties of Ti(C,N)-TiB₂-FeCoCrNiAl High-Entropy Alloys Composite Cermets</p> | <p><i>Chairperson: Frank Ball</i></p> <p>(10:30-11:00) Frank Ball Frank Ball Consulting, UK "Latency Evaluation as an Integral Part of the Design and Development Process for Time-critical Smart Grid Measurement, Control and Protection Systems"</p> <p>(11:00-11:30) Tariq Sattar London South Bank University, UK "Inspecting Critical Infrastructure in the Energy Sector Using Mobile Robots to Perform Non-destructive Testing"</p> <p>(11:30-12:00) Wenfu Chen Chia nan University, Taiwan "Estimating In-situ Thermal Diffusivity by Using Temperature Recovery Model"</p> <p>(12:00-12:30) Fouzia Cherkaoui El Moursli Mohammed V University of Rabat, Morocco "A new potential class of anode materials for Lithium-ion batteries"</p> |
| 12:30-14:00 | LUNCH | |
| PARALLEL SESSIONS 14:00-17:00 | APMAS | |
| | YUNUS EMRE 1 | ARISTO |

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| | <p><i>Chairperson: Felix N Chukhovskii</i></p> <p>(14:00-14:30) Felix N. Chukhovskii Shubnikov Institute of Crystallography, Federal Scientific Research Centre "Crystallography and Photonics", Russian Academy of Sciences, Russia "Challenges Of The Inverse Problem Of The X-Ray Diffraction Tomography. Theory, Formulas And Computer Iterative Algorithms Towards The 3D Recovery Of Elastic Static Displacement Field Around The Point-Defects In A Crystal"</p> <p>(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</p> <p>(14:50-15:10) Roman Semenko Novosibirsk State University, Russian Federation ID1216- Vortex Motion of an Incompressible Polymeric Liquid</p> <p>(15:10-15:30) Ayse Nihan Basmaci Filiz Tekirdag Namik Kemal University, Turkey ID1363- Electromagnetic Wave Propagation of Double Walled Wires</p> <p>(15:30-15:50) Seckin Filiz Tekirdag Namik Kemal University, Turkey ID1364- Wave Propagation Behavior of Friction Welded Rods</p> <p>(15:50-16:10) Zhanna Yermekova National University of Science and Technology MISIS, Research Center of Functional Nanoceramics, Russian Federation ID1190- Self-propagating high-temperature synthesis of Fe₂TiSn_{1-x}MX (M= Hf, V, Zr, Si) Heusler alloys with following spark plasma sintering</p> <p>(16:10-16:40) Hamza Cansever Helmholtz Zentrum Dresden-Rossendorf- Institute of Ion Beam Physics and Materials Research, Germany "Ferromagnetic Resonance Detection in Magnetic Single Objects via a Novel Microresonator and Microantenna Approach"</p> <p>(16:40-17:00) Vijaya Srinivasu Vallabhapurapu University of South Africa, South Africa ID1197-Low field microwave absorption in metal nanoparticles embedded conducting polymers</p> | <p><i>Chairperson: Ersin Kayahan</i></p> <p>(14:00-14:30) Amjad Gawanmeh Khalifa University, United Arab Emirates "Smart Algorithm for Energy and Cost Management within Smart Grid"</p> <p>(14:30-14:50) Manuel Frondel RWI, Germany ID21- Drivers' Response to Fuel Taxes and Efficiency Standards: Evidence from Germany</p> <p>(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</p> <p>(15:10-15:40) Semakula Maroa University of Kwazulu Natal, South Africa "Effects of Exhaust Gas Recirculation on Temperature, Using Biodiesel Blends"</p> <p>(15:40-16:10) Balazs Kulcsar University of Debrecen Faculty of Engineering, Hungary "Settlement Renewable Energy Production and Sharing Energy"</p> <p>(16:10-16:40) Houda Ennaceri Leibniz-Institut für Oberflächenmodifizierung (IOM), Germany "Effect of the Morphological Parameters on the Photo-electrochemical Activity of TiO₂ Self-Organized Nanotube Arrays"</p> <p>(16:40-17:00) Larimi Yasser Mahmoudi Queen's University Belfast, United Kingdom ID- 243 Experimental Study of a Novel Hybrid Solar Photovoltaic/Thermal and Heat Pump System</p> |
| 17:00- 17:30 | COFFEE BREAK | |
| 17:30- 18:30 | FOYER (Poster Session Area) Chairperson: A. Yavuz Oral POSTER SESSION – III (APMAS2019-ENEFM2019) | |

PROGRAM
SUNDAY, OCTOBER 27, 2019

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| APMAS & ENEFM | |
| YUNUS EMRE 1 | |
| PARALLEL SESSIONS 10:00-12:00 | <p><i>Chairperson: Jan Vcelak</i></p> <p>(10:00-10:30) Jan Vcelak CVUT UCEEB, Czech Republic "Novel Heating and Cooling Technology as a Flexible Load for Optimized PV Utilization in buildings"</p> <p>(10:30-11:00) Juma Haydary Slovak University of Technology, Slovakia "Lignocellulosic Waste Biomass to Methanol-Potential and Challenges"</p> <p>(11:00-11:20) Muhammad Aftab Akram National University of Sciences and Technology, Pakistan ID1484- Polyaniline-MWCNTS Composites for High Performance Supercapacitor Application</p> <p>(11:20-11:40) Mehmet Sezer Gebze Technical University, Turkey ID270- Ca-Doped LaCoO₃ Thin Film Cathodes for Solid Oxide Fuel Cells</p> <p>(11:40-12:00) Sreedevi Vallabhapurapu University of South Africa, South Africa ID1196- ReRAM based on water soluble polymer nano composite</p> |
| | <p>12:00-13:15</p> <p>LUNCH</p> |
| | <p>13:15-18:00</p> <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
MONDAY, OCTOBER 28, 2019

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| | APMAS & ENEFM |
| | YUNUS EMRE 1 |
| PARALLEL SESSIONS 10:00-11:40 | <p><i>Chairperson:</i> Farid Abed</p> <p>(10:00-10:30) Farid Abed American University of Sharjah, United Arab Emirates "Effect of Dynamic Strain Aging on Thermomechanical Response of High Strength Steels"</p> <p>(10:30-11:00) Yoshiei Kato Okayama University, Japan "Possibility of Silicon Recycling from Waste Crystalline Solar Cells by a Cascade Process of Metallic Flootation and Chemical Etching"</p> <p>(11:00-11:20) Aziizur Rahman Abdul Aziz Universiti Teknologi Malaysia, Malaysia ID1344-Application of Box Behnken Design to Optimize The Parameters for Kenaf-Polypropylene for Sound Absorber</p> <p>(11:20-11:40) Khalid Sultan Central University of Kashmir, India ID1452- Ion beam induced ferromagnetism in Mn doped PrFeO₃ thin films</p> |
| 12:00 | Hotel Check Out |

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