

INTERM 2019

6th INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

BIOMATSEN 2019

4th INTERNATIONAL CONGRESS ON BIOMATERIALS & BIOSENSORS

MAY 12-18, 2019

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

PROGRAM FRIDAY, MAY 10, 2019	
14:00-23:30	REGISTRATION FOR EARLY ARRIVALS (14:00 Check-in)

PROGRAM SATURDAY, MAY 11, 2019	
9:00-23:30	REGISTRATION (14:00 Check-in)

PROGRAM SUNDAY, MAY 12, 2019	
10:30-11:00	WELCOME COFFEE (FOYER)
YUNUS EMRE 1	
OPENING SESSION 11:10-11:15	Chairperson: A. Yavuz Oral OPENING CEREMONY A. Yavuz Oral

OPENING SESSION 11:15-12:00	Chairperson: A. Yavuz Oral M. Alper Şahiner Seton Hall University, USA “Ferroelectricity in HfO ₂ Thin Films: Structures as Probed by X-ray Absorption Fine-Structure Spectroscopy”
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12:00-14:00	LUNCH				
PARALLEL SESSIONS 14:00-15:00	INTERM		INTERM & BIOMATSEN	BIOMATSEN	
	YUNUS EMRE 1	EFLATUN	IBN-I SINA	ARISTO	HIPOKRAT
	Chairperson: Hideaki Shirota (14:00-14:30) Hideaki Shirota Chiba University, Japan <i>Invited speaker</i> Temperature Dependent Features of Low-Frequency Spectra of Ionic Liquids Studied by Femtosecond Raman-Induced Kerr Effect Spectroscopy (14.30-14:50) Mihri Ozkan University of California, Riverside, United States ID389 -Scalable Multifunctional Ultra-Thin Graphite Sponge	Chairperson: Cengiz Özkan (14:00-14:30) Cengiz Özkan University of California Riverside, United States <i>Invited speaker</i> Design of Materials for Advanced Energy Storage (14:30-15:00) Sam Yang CSIRO, Australia <i>Invited speaker</i> Microscopic characterization of 3D-printed metals with data-constrained modelling and quantitative X-ray CT	Chairperson: Herlina Abdul Rahim (14:00-14:30) Herlina Abdul Rahim Universiti Teknologi Malaysia, Malaysia <i>Invited speaker</i> Current Research: Near Infrared Spectroscopy in Biomedical Applications (14:30-15:00) Adela Consuela Scafes National Institute for Physics and Nuclear Engineering (IFIN-HH), Romania <i>Invited speaker</i> Dental biomaterials studied by atomic and nuclear surface analysis methods	Chairperson: Tukayi Kudanga (14:00-14:30) Tukayi Kudanga Durban University of Technology, South Africa <i>Invited speaker</i> Laccases as versatile tools for the functionalisation of lignocellulose materials (14:30-15:00) Jacques Desbrieres University of Pau and Adour Countries, France <i>Invited speaker</i> Chitosan-based hydrogels as biomaterials for controlled release	Chairperson: Lubomir Svorc (14:00-14:30) Lubomir Svorc Slovak University of Technology in Bratislava, Slovak Republic <i>Invited speaker</i> Boron-doped diamond-based electrochemical sensors in drug and food analysis (14:30-15:00) Maria Luz Rodriguez-Mendez Universidad de Valladolid, Spain <i>Invited speaker</i> Bioelectronic tongue based on electrochemical sensors. Applications in the food industry
15:00-15:30	COFFEE BREAK				
PARALLEL SESSIONS 15:30-17:10	INTERM		INTERM & BIOMATSEN	BIOMATSEN	
	YUNUS EMRE 1	EFLATUN	IBN-I SINA	ARISTO	HIPOKRAT

	<p><i>Chairperson: Jose Mustre de Leon</i></p> <p>(15:30-16:00) Jose Mustre de Leon Cinvestav, Mexico <i>Invited speaker</i> X-ray spectroscopies in Fe based superconductors</p> <p>(16:00-16:30) Yuval Cinnamon Agricultural Research Organization, The Volcani Center, Israel <i>Invited speaker</i> High-Resolution Episcopic Microscopy 3D analysis in animal and plant research</p> <p>(16:30-17:00) Cisem Altunayar-Unsalan Ege University Central Research Testing and Analysis Laboratory Research and Application Center, Turkey <i>Invited speaker</i> Interaction of Hesperidin with phospholipid bilayers studied by Fourier Transform Infrared Spectroscopy</p>	<p><i>Chairperson: Ryszard Zdyb</i></p> <p>(15:30-16:00) Ryszard Zdyb Maria Curie-Sklodowska University, Poland <i>Invited speaker</i> Ferromagnetic Co films on silicene</p> <p>(16:00-16:30) Hellen Cristine Santos São Paulo University, Brazil <i>Invited speaker</i> X-ray Spectroscopies Techniques Applied in Archaeometry at the Institute of Physics, University of Sao Paulo, Brazil</p> <p>(16:30-16:50) Jaroslav Durkovic Technical University in Zvolen, Slovakia ID250-Imaging and measurements of cell wall nanomechanical properties in broadleaved forest tree species using atomic force microscopy PeakForce quantitative nanomechanical mapping</p> <p>(16:50-17:10) Milena Spirkova Institute of Macromolecular Chemistry AS CR, Czech Republic ID234-Films and coatings based on polycarbonate-based polyurethanes and polyurethane nanocomposites</p>		<p><i>Chairperson: María Gasset</i></p> <p>(15:30-16:00) María Gasset IQFR-CSIC, Spain <i>Invited speaker</i> Amyloids as Biomineralizing Tools</p> <p>(16:00-16:30) Kyungpyo Park Seoul National University, Korea, Republic Of <i>Invited speaker</i> The enhancement of morphogenesis using surface-immobilized hyaluronic acid - catechol</p> <p>(16:30-17:00) Affar Karimullah University of Glasgow, UK <i>Invited speaker</i> Chiral Plasmonic Sensing</p>	<p><i>Chairperson: Paweł Ł. Sajkiewicz</i></p> <p>(15:30-16:00) Paweł Ł. Sajkiewicz Institute of Fundamental Technological Research, Polish Academy of Sciences, Poland <i>Invited speaker</i> Functionalization of aliphatic polyester fibers formed by electrospinning - the effect of crystallinity on aminolysis</p> <p>(16:00-16:30) Gualberto González-Sapienza Facultad de Química, Udelar, Uruguay <i>Invited speaker</i> Nanobodies: Tiny antibodies with a huge potential for immunosensing</p> <p>(16:30-17:00) Xiaoxia Zhu Université de Montréal, Canada <i>Invited speaker</i> New Biomaterials Made from Natural Compounds</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>(INTERM2019-BIOMATSEN2019)</p>				

PROGRAM
MONDAY, MAY 13, 2019

09.15-09.30	COFFEE BREAK				
PARALLEL SESSIONS 09:30-12:00	INTERM		BIOMATSEN		
	YUNUS EMRE 1	EFLATUN	ARISTO	HIPOKRAT	IBN-I SINA
	<p><i>Chairperson: Alexander Kamnev</i></p> <p>(09:30-10:00) Alexander Kamnev Institute of Biochemistry and Physiology of Plants and Microorganisms, Russian Academy of Sciences, Russian Federation <i>Invited speaker</i> Mössbauer Spectroscopy: Applications In Microbiology And Biochemistry</p> <p>(10:00-10:30) Zenon Rajfur Jagiellonian University, Poland <i>Invited speaker</i> Advanced optical microscopy techniques in studies of cell migration mechanobiology</p> <p>(10:30-11:00) Virginija Kepeniene Center for Physical Sciences and Technology, Lithuania <i>Invited speaker</i> Application of Microscopy and Spectrometry for the Characterization of Various Materials: Powders, Films, Foams and Further their Investigation toward Alcohols Oxidation Reaction</p> <p>(11:00-11:30) Sukarno Ferreira Universidade Federal de Viçosa, Brazil <i>Invited speaker</i> Highly mismatched CdMnTe/Si heterostructures: Characterization by AFM, TEM and HR-XRD</p> <p>(11:30-12:00) King-Chuen Lin National Taiwan University, Taiwan <i>Invited speaker</i> Roaming as an Alternative in Photodissociation Mechanism Using Ion Imaging, FTIR Spectroscopy, and Quasi-classical Trajectory Calculations</p>	<p><i>Chairperson: Tetiana Prikhna</i></p> <p>(09:30-10:00) Tetiana Prikhna V. Bakul Institute for Superhard Materials of the National Academy of Sciences of Ukraine, Ukraine <i>Invited speaker</i> Peculiarities of Auger spectroscopy study of nanostructural ceramic composites containing light elements</p> <p>(10:00-10:30) Javier Bartolome Universidad Complutense de Madrid, Spain <i>Invited speaker</i> Advanced scanning electron microscopy for correlative and in-situ measurements of low dimensional materials</p> <p>(10:30-11:00) Joze Grdadolnik National Institute of Chemistry, Slovenia <i>Invited speaker</i> Hydrogen bonding in biomolecules</p> <p>(11:00-11:30) Ryo Nouchi Osaka Prefecture University, Japan <i>Invited speaker</i> Gate-controlled chemical reactions at graphene surface</p> <p>(11:30-12:00) Sergio Moya CIC biomaGUNE, Spain <i>Invited speaker</i> Biological fate of Engineered Nanomaterials: tracing aggregation/degradation and nanomaterial dose in vitro and in vivo</p>	<p><i>Chairperson: Mark Towler</i></p> <p>(09:30-10:00) Mark Towler Ryerson University, Canada <i>Invited speaker</i> A glass-based adhesive for skeletal fixation and stabilization</p> <p>(10:00-10:30) Azade Yelten Istanbul University-Cerrahpasa, Turkey <i>Invited speaker</i> A Comprehensive Look On Bioceramic Powder Synthesis</p> <p>(10:30-11:00) Tzu-Sen Yang Taipei Medical University, Taiwan <i>Invited speaker</i> A Single-cell Study of Mitochondrial Function and Biphasic Dose Response in Low Level Laser Therapy</p> <p>(11:00-11:20) Dmitry Gryadunov Russian Academy of Sciences, Russian Federation ID61- Hydrogel microarrays as a tool for personalized medicine in present and future</p> <p>(11:20-11:40) Ana Isabel González Garnica University of Granada, Spain ID123- Polyoxometalates As Sensors Of Bacterial Activity</p> <p>(11:40-12:00) Alexander Gerasimenko I.M.Sechenov First Moscow State Medical University, Russian Federation ID222- Tissue-engineered structures with a nanocarbon scaffolds for regeneration of the cardiovascular tissues</p>	<p><i>Chairperson: Ross Rinaldi</i></p> <p>(09:30-10:00) Ross Rinaldi University of Salento, Italy <i>Invited speaker</i> Biocompatible and bio-inspired micro- and nano-structures for drug-delivery: microfluidic-assisted and biomimetic approaches</p> <p>(10:00-10:30) Angel Licea Claverie Instituto Tecnológico de Tijuana, Mexico <i>Invited speaker</i> Poly(N,N-diethylaminoethyl methacrylate) based polymers and gold nanoparticles: A convenient combination for drug delivery to cancer cells</p> <p>(10:30-11:00) Hsien-Hung Wei National Cheng Kung University, Taiwan <i>Invited speaker</i> Enhanced FRET Probing with Directed Assembly of Bio-conjugated Semiconductor Quantum Dots</p> <p>(11:00-11:20) Agota Imre-Deak University of Szeged, Hungary ID-146 Photoreactive hybrid films with tunable wetting properties</p> <p>(11:20-11:40) Laszlo Janovak University of Szeged, Hungary ID150- Designed composites thin films and nanoparticles: from bio- inspired self-cleaning surface to stimuli responsive functional materials</p> <p>(11:40-12:00) Edit Csapo University of Szeged, Hungary ID121- Fluorescent gold nanoclusters with tunable optical features: synthesis, characterization and selective detection of biomolecules in aqueous medium</p>	<p><i>Chairperson: Ersin Kayahan</i></p> <p>(09:30-10:00) Darja Lisjak Jozef Stefan Institute, Slovenia <i>Invited speaker</i> Upconverting Nanoparticles For Biomedicine: The Dissolution Problematics And Possible Solutions</p> <p>(10:00-10:30) Zhugen Yang University of Glasgow, UK <i>Invited speaker</i> Low cost sensors for rapid medical diagnosis and environmental health</p> <p>(10:30-11:00) Alberto Sinibaldi SAPIENZA University of Rome, Italy <i>Invited speaker</i> High-sensitivity detection of soluble HER2 in cell lysates using a combined label-free and fluorescence biosensing platform</p> <p>(11:00-11:30) Rabah Azouani Ecole de Biologie Industrielle, France <i>Invited speaker</i> Antibacterial activity of ZnO and CuO nanoparticles</p> <p>(11:30-12:00) Jacques Werckmann Centro Brasileiro de Pesquisas Fisicas, Brasil <i>Invited speaker</i> Biomineralization process in Magnetotactic bacteria and calcareous sponges</p>
12:00-13:15	LUNCH				

<p>13:15-18:00</p>	<p>SOCIAL PROGRAM</p> <p>13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS</p> <p><i>(Gathering at Congress registration desk)</i></p>
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PROGRAM
TUESDAY, MAY 14, 2019

	INTERM			BIOMATSEN	
	YUNUS EMRE 1	EFLATUN	IBN-I SINA	ARISTO	HIPOKRAT
PARALLEL SESSIONS 10:00-12:50	<p><i>Chairperson: Masaharu Oshima</i></p> <p>(10:00-10:30) Masaharu Oshima The University of Tokyo, Japan <i>Invited speaker</i> Spectro-microscopy for green nano-materials/devices</p> <p>(10:30-11:00) Mirjana Siljegovic University of Novi Sad, Serbia <i>Invited speaker</i> Advantages of impedance spectroscopy application in analysis of charge carrier transport in chalcogenide glasses</p> <p>(11:00-11:30) Manho Lim Pusan National University, Republic of Korea <i>Invited speaker</i> Photodissociation dynamics of CF2I2 in solution probed by femtosecond IR spectroscopy</p> <p>(11:30-12:00) Zofia Drzazga University of Silesia, Poland <i>Invited speaker</i> Application of blood serum fluorescence and CD spectroscopy studies in normal locomotory and in movement dysfunction people</p> <p>(12:00-12:30) Victor Pavlov Ioffe Institute, the Russian Academy of Sciences, St. Petersburg, Russian Federation <i>Invited speaker</i> Optical harmonics spectroscopy of semiconductors and dielectrics</p>	<p><i>Chairperson: Aleksandr Kryshtal</i></p> <p>(10:00-10:30) Aleksandr Kryshtal AGH University of Science and Technology, Poland <i>Invited speaker</i> Phase Transformations in Nanoscale Metal-Semiconductor Couples: In Situ (S)TEM studies</p> <p>(10:30-11:00) Canan Aksoy Karadeniz Technical University, Turkey <i>Invited speaker</i> Microstructural and Spectroscopic Changing on the MgB2 bulks after Laser Process</p> <p>(11:00-11:30) Zhang Yingxu Beihang University, China <i>Invited speaker</i> Research on the intelligent technology of the Atomic Force Microscope</p> <p>(11:30-12:00) Oleh Shpotyuk Jan Dlugosz University, Poland <i>Invited speaker</i> Positron annihilation spectroscopy as an advanced non-destructive characterization tool in nanomaterials science</p> <p>(12:00-12:30) Vladimir Vladimirovich Ovchinnikov Institute of Electrophysics, Ural Branch of Russian Academy of Sciences, Russian Federation <i>Invited speaker</i> Optical and Mössbauer spectroscopy of ion-doped metals and alloys</p>	<p><i>Chairperson: Antoine Barbier</i></p> <p>(10:00-10:30) Antoine Barbier Service de Physique de l'Etat Condensé, Gif-sur-Yvette, France <i>Invited speaker</i> Investigation of the local chemistry effects in magneto-electric electrically poled multiferroic thin films</p> <p>(10:30-11:00) Khrystyna Levchenko Institute of Physics Polish Academy of Sciences (IP PAS), Poland <i>Invited speaker</i> Comprehensive Analysis of the Ferromagnetic Semiconductors in Terms of the Crystalline Structure and Magnetic Quality on the Example of (Ga,Mn)(Bi,As) Thin Epitaxial Layers</p> <p>(11:00-11:30) Nan-Shan Chang National Cheng Kung University, Taiwan <i>Invited speaker</i> WVOX drives UV/cold shock-induced bubbling cell death in a calcium-dependent manner whereas pop-out death occurs without WVOX</p> <p>(11:30-11:50) Nan-Shan Chang National Cheng Kung University, Taiwan ID267- Detection of autofluorescence using visible wavelength: induction of cancer stem cell sphere explosion by UV irradiation/cold shock or therapeutic chemicals</p> <p>(11:50-12:20) Sreedevi Upadhyayula Indian Institute of Technology Delhi, India <i>Invited speaker</i> Application of Fourier transform infrared spectroscopy in Reaction Engineering and Heterogeneous Catalysis</p> <p>(12:20-12:50) Sebastian Calderon Velasco International Iberian Nanotechnology Laboratory, Portugal <i>Invited speaker</i> Understanding the LiMn2O4 structure by Differential Phase Contrast</p>	<p><i>Chairperson: M. Cristina Tanzi</i></p> <p>(10:00-10:30) M. Cristina Tanzi INSTM Politecnico di Milano, Italy <i>Invited speaker</i> Functionalized polyurethane foams and biomimetic composites for Tissue Engineering</p> <p>(10:30-11:00) Ulf Anderegg Leipzig University, Germany <i>Invited speaker</i> Dual functionality of sulfated glycosaminoglycans – impact for the development of biomedical wound dressings</p> <p>(11:00-11:30) Anton Bonartsev M.V.Lomonosov Moscow State University, Russian Federation <i>Invited speaker</i> The application of polyhydroxyalkanoates in medicine: biomimetic aspects</p> <p>(11:30-12:00) Jaehwan Kim Inha University, Korea, Republic Of <i>Invited speaker</i> A sustainable cellulose coating for self-cleaning-healing fabric</p> <p>(12:00-12:30) Manuel Palencia Universidad del Valle, Colombia <i>Invited speaker</i> Cationic Polymer Surfaces with Antibacterial Properties for The Immunohematological Control of Blood</p>	<p><i>Chairperson: Murat Acar</i></p> <p>(10:00-10:30) Murat Acar Yale University, USA <i>Invited speaker</i> A microfluidic platform facilitating automated measurements of gene expression and noise dynamics during single-cell aging</p> <p>(10:30-11:00) Byeong-ui (Ben) Moon National Research Council, Canada <i>Invited speaker</i> Microfluidic generation and applications of water-in-water droplets</p> <p>(11:00-11:30) Vesna Lazic University of Belgrade, Serbia <i>Invited speaker</i> Antimicrobial activity magnetite nanoparticles decorated with Ag NPs</p> <p>(11:30-12:00) Cheng-Sheng Huang National Chiao Tung University, Taiwan <i>Invited speaker</i> Biosensors based on gradient guided-mode resonance filter</p> <p>(12:00-12:20) Bercesté Güler Kütahya Health Science University, Turkey ID160- Chemical Comparison of Different Graft Materials by Energy Dispersive X-ray Spectrometry Technique</p>

12:50-14:00	LUNCH				
	INTERM			BIOMATSEN	
	YUNUS EMRE 1	EFLATUN	IBN-I SINA	ARISTO	HIPOKRAT
PARALLEL SESSIONS 14:00-15:10	<p><i>Chairperson: Sheng-Lung Huang</i></p> <p>(14:00-14:30) Sheng-Lung Huang National Taiwan University, Taiwan <i>Invited speaker</i> Glass-clad crystalline fiber based broadband light sources for optical coherence tomography</p> <p>(14:30-15:00) Catarina Raposo Universidade Estadual de Campinas, Brazil <i>Invited speaker</i> Drug discovery for brain cancer: imaging approaches as key tools</p>	<p><i>Chairperson: Keita Kataoka</i></p> <p>(14:00-14:30) Keita Kataoka Toyota Central R&D Labs., Inc., Japan <i>Invited speaker</i> Determination of Band Diagram for GaN Power Devices using Hard X-ray Photoelectron Spectroscopy</p> <p>(14:30-15:00) Zuzana Moravkova Czech Academy of Sciences, Czech Republic <i>Invited speaker</i> The use of Raman microspectroscopy in polymer research</p>	<p><i>Chairperson: Małgorzata Jasiurkowska-Delaporte</i></p> <p>(14:00-14:30) Małgorzata Jasiurkowska-Delaporte The Henryk Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences, Poland <i>Invited speaker</i> Application of broadband dielectric spectroscopy to study molecular dynamics and kinetics of crystallization processes</p> <p>(14:30-15:00) Jinfeng Yang Osaka University, Japan <i>Invited speaker</i> Relativistic femtosecond-pulsed electron microscopy</p>	<p><i>Chairperson: Fraser J Buchanan</i></p> <p>(14:00-14:30) Fraser J Buchanan Queen's University, Belfast, UK <i>Invited speaker</i> Methodologies for Long-Term Performance Evaluation of Bioresorbable Polymers used in Bone Fixation and Tissue Scaffolds</p> <p>(14:30-14:50) Ilker Bayer Italian Institute of Technology, Italy ID172- Transparent Biopolymer Antioxidant Films for Controlled Release</p> <p>(14:50-15:10) Tunc Catal Uskudar University, Turkey ID119- Removal of cannabis metabolite from human urine in microbial fuel cells generating electricity</p>	<p><i>Chairperson: Chiara Rotella</i></p> <p>(14:00-14:30) Chiara Rotella Trinity College Dublin, Ireland <i>Invited speaker</i> Clinical microfluidic diagnostics using nanomechanical sensor arrays</p> <p>(14:30-15:00) Claire E. Stanley Agroscope, Switzerland <i>Invited speaker</i> Soil-on-a-Chip: Exploring microbial interactions at the cellular level using microfluidic technology</p>
15:10-15:30	COFFEE BREAK				

		INTERM			BIOMATSEN		
		YUNUS EMRE 1	EFLATUN	IBN-I SINA	ARISTO	HIPOKRAT	
PARALLEL SESSIONS 15:30-17:10	<p><i>Chairperson: Ivania Markova-Deneva</i></p> <p>(15:30-16:00) Ivania Markova-Deneva University of Chemical Technology and Metallurgy-Sofia, Bulgaria <i>Invited speaker</i> FTIR Spectroscopy Study of Nanosurface Phenomena in Nanomaterials Based on Intermetallic Co-Sn, Ni-Sn, Co-Ni Nanoparticles and their Carbon Nanocomposites</p> <p>(16:00-16:30) Daniela Djikanovic Institute for Multidisciplinary Research, Serbia <i>Invited speaker</i> Fluorescence study of interaction between silicone and lignin model compound</p> <p>(16:30-16:50) Ewa Mijowska West Pomeranian University of Technology, Poland ID220 Transition metal chalcogenides based polymer composites: Microscopic and Spectroscopic Characterization and Applications</p> <p>(16:50-17:10) Ryszard Kalenczuk West Pomeranian University of Technology, Poland ID221-Microscopic and spectrometric studies on the new composite photocatalysts</p>	<p><i>Chairperson: Sho Amano</i></p> <p>(15:30-16:00) Sho Amano University of Hyogo, Japan <i>Invited speaker</i> Laser plasma source for soft X-ray microscope</p> <p>(16:00-16:30) Azizul Hakim Universiti Putra Malaysia intulu Campus, Malaysia <i>Invited speaker</i> Development of iron oxide based adsorbent for CO2 capture studies</p> <p>(16:30-17:00) Vladimir Kopecky Charles University, Czech Republic <i>Invited speaker</i> 2D Correlation Analysis of Lysozyme Fibrillation Studied by Raman Optical Activity and Raman Spectroscopy</p>	<p><i>Chairperson: Alexey V. Feofanov</i></p> <p>(15:30-16:00) Alexey V. Feofanov Biological Faculty, Lomonosov Moscow State University <i>Invited speaker</i> Single-particle FRET microscopy in the studies of nucleosome structure and interactions</p> <p>(16:00-16:20) Saroj Kumar All India Institute of Medical Sciences, India ID306- Applications of infrared microspectroscopy in disease</p> <p>(16:20-16:40) Magdy Al Salhy Stord Hospital/University of Bergen, Norway ID336- Clinical implications of microscopy and computer image analysis of the enteroendocrine cells in patients with irritable bowel syndrome</p> <p>(16:40-17:00) Zbigniew Baster Jagiellonian University, Poland ID294- Genetically encoded FRET biosensors in cell migration biomechanical studies</p>	<p><i>Chairperson: Snezana Ilic-Stojanovic</i></p> <p>(15:30-16:00) Snezana Ilic-Stojanovic University of Niš, Faculty of Technology, Serbia <i>Invited speaker</i> Intelligent thermo-sensitive hydrogels for biomedical applications</p> <p>(16:00-16:30) Hans Bäumlner Charité-Universitätsmedizin Berlin, Germany <i>Invited speaker</i> Fabrication of multifunctional Nano and Micro size biopolymer Particles</p> <p>(16:30-16:50) Slawomir Szafert University of Wrocław, Poland ID217- Organic-Inorganic Hybrid Materials For Bone Tissue Engineering</p> <p>(16:50-17:10) Ana Carina Beata Manjua IBB-IST, LAQV-REQUIMTE FCT-UNL, Portugal ID155-Promoting Angiogenesis Phenomena using Magnetic Scaffolds</p>	<p><i>Chairperson: Marek Godlewski</i></p> <p>(15:30-16:00) Marek Godlewski Institute of Physics Polish Academy of Sciences, Poland <i>Invited speaker</i> Thin films of oxides grown by ALD – properties and applications</p> <p>(16:00-16:30) Reuven Rasooly USDA, United States <i>Invited speaker</i> Sensitive bioassay for detection of biologically active microbial toxins in food.</p> <p>(16:30-16:50) Olga Guselnikova Tomsk Polytechnic University, Russian Federation ID191-Artificial neural network for the smart SERS-based biosensing: a case of UV-induced DNA damage</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 – II</p> <p>(INTERM2019-BIOMATSEN2019)</p>					

PROGRAM
WEDNESDAY, MAY 15, 2019

	<i>INTERM</i>	<i>INTERM & BIOMATSEN</i>			<i>BIOMATSEN</i>
	<i>YUNUS EMRE 1</i>	<i>EFLATUN</i>	<i>HIPOKRAT</i>	<i>IBN-I SINA</i>	<i>ARISTO</i>
PARALLEL SESSIONS 10:00-12:00	<p><i>Chairperson: Violeta Oro</i></p> <p>(10:00-10:30) Violeta Oro Institute of Plant Protection and Environment, Serbia <i>Invited speaker</i> To catch a moment in the nematode life</p> <p>(10:30-11:00) Vlastimil Krapek Brno University of Technology, Czech Republic <i>Invited speaker</i> Quantitative phase imaging of plasmonic metasurfaces</p> <p>(11:00-11:30) Kazuo Umemura Tokyo University of Science, Japan <i>Invited speaker</i> Microscopy and spectroscopy of nanobioconjugates of carbon nanotubes</p> <p>(11:30-12:00) Teruo Suzuki Socionext Inc., Japan <i>Invited speaker</i> Calibration problem and solution in Transmission Line Pulse of packaged sample</p>	<p><i>Chairperson: Vlado Lazarov</i></p> <p>(10:00-10:30) Vlado Lazarov University of York, UK <i>Invited speaker</i> In situ environmental TEM/STEM study of oxidation and reduction processes in metallic nanoparticles and thin oxide films</p> <p>(10:30-11:00) Elena G. Kovaleva Ural Federal University, Russian Federation <i>Invited speaker</i> EPR Spectroscopy of pH-Sensitive Spin Probes and Labels in Materials Characterization</p> <p>(11:00-11:30) Chin-Tarng Lin National Taiwan University, Taiwan <i>Invited speaker</i> Verification of the efficacy of targeting peptides linked liposomal nanoparticles for therapy of different cancers</p> <p>(11:30-12:00) Joanna Cabaj Wroclaw University of Science and Technology, Poland <i>Invited speaker</i> Biosensor technology for Point-of-Care testing</p>	<p><i>Chairperson: Imre Dékány</i></p> <p>(10:00-10:30) Imre Dékány University of Szeged, Hungary <i>Invited speaker</i> Surface cleaning and antibacterial properties of nanohybrid thin films using solar energy driven photocatalyst</p> <p>(10:30-11:00) Zhe Chen Jinan University, China <i>Invited speaker</i> All-fiber-optic VOC Gas Sensor Based on Side-polished Fiber Wavelength Selectively Coupled with Cholesteric Liquid Crystal Film</p> <p>(11:00-11:30) Czesława Paluszkiwicz Institute of Nuclear Physics, Polish Academy of Science, Poland <i>Invited speaker</i> Analysis of Pathological Tissues By Vibrational Micro- and Nano-Spectroscopy Methods</p> <p>(11:30-12:00) Yunhan Luo Jinan University, China <i>Invited speaker</i> Highly Sensitive Surface Plasmon Resonance Biosensor Modified with Halloysite Nanotubes</p>	<p><i>Chairperson: Jahir Orozco Holguin</i></p> <p>(10:00-10:30) Jahir Orozco Holguin Max Planck Tandem Group in Nanobioengineering, University of Antioquia, Colombia <i>Invited speaker</i> Assembling Nanobiomaterials for Diagnostic and Treatment of Diseases</p> <p>(10:30-11:00) Sierin Lim Nanyang Technological University, Singapore <i>Invited speaker</i> Protein-based Nanoparticles for Delivery of Active Molecules</p> <p>(11:00-11:30) Paulo Ferreira International Iberian Nanotechnology Laboratory, Portugal <i>Invited speaker</i> On the degradation of Pt-based nanocatalysts for PEM Fuel Cells: An Identical Location aberration-corrected TEM Study</p>	<p><i>Chairperson: Virginia Pensabene</i></p> <p>(10:00-10:30) Virginia Pensabene University of Leeds, UK <i>Invited speaker</i> The use of a novel microfluidic culture device and predictive metabolic profiling as a means to improve murine embryo</p> <p>(10:30-11:00) Liviu Clime National Research Council of Canada, Canada <i>Invited speaker</i> Applications of inertial focusing in continuous-flow microfluidics</p> <p>(11:00-11:30) Heli Bentolhoda Polytechnique Montreal, Canada <i>Invited speaker</i> A solid-state sensitive optical sensor based on plasmonic nanopaper</p> <p>(11:30-12:00) Karim Fahmy Helmholtz-Zentrum Dresden-Rossendorf, Germany <i>Invited speaker</i> Emerging nanoscale membrane mimetics for research and biosensing</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 LYCIAN WAY TREKKING TOUR OR SAKLIKENT JEEP SAFARI TOUR</p> <p style="text-align: center;">(Gathering at Congress registration desk)</p>				

PROGRAM
THURSDAY, MAY 16, 2019

YUNUS EMRE 1

OPENING SESSION 10:00-10:45	Chairperson: Ersin Kayahan <p style="text-align: center;">Sumio Iijima Meijo University, Japan</p> <p style="text-align: center;">“The latest EDS-STEM atomic imaging of some Ti-Nb-W oxides with order-disorder problems”</p>			
10:45-11:00	COFFEE BREAK			
PARALLEL SESSIONS 11:00-12:00	INTERM	INTERM & BIOMATSEN	INTERM & BIOMATSEN	BIOMATSEN
	YUNUS EMRE 1	EFLATUN	HIPOKRAT	ARISTO
	Chairperson: Prasath Babu Revathy Rajan (11:00-11:30) Prasath Babu Revathy Rajan KTH Royal Institute of Technology, Sweden <i>Invited speaker</i> Analysis of nano-scale precipitates in metallic materials through conventional and advanced TEM techniques (11:30-12:00) Felipe Mergulhão FEUP, Portugal <i>Invited speaker</i> Microscopic Investigation of Bacterial Biofilm Development in Flow Systems	Chairperson: Dehua Li (11:00-11:30) Dehua Li Shandong University of Science and Technology, China <i>Invited speaker</i> Coal tar Terahertz spectrum investigation (11:30-12:00) Kenji Hata National Institute of Advanced Industrial Science and Technology (AIST), Japan <i>Invited speaker</i> Characterization of CNTs and CNT fibers	Chairperson: Odrun Arna Gederaas (11:00-11:30) Odrun Arna Gederaas Norwegian University of Science and Technology, Norway <i>Invited speaker</i> Novel Technologies by Photodynamic Therapy (PDT) (11:30-12:00) XiuMei Xu IMEC, Belgium <i>Invited speaker</i> Characterization of superhydrophobic breakdown on nanostructured silicon surfaces	Chairperson: Abdullah M. Ibrahim Tashtoush (11:00-11:30) Abdullah M. Ibrahim Tashtoush Yarmouk University, Jordan <i>Invited speaker</i> Feasibility of Micro-Nanotechnology in Biomedical Applications (11:30-12:00) Melike Firlak Lancaster University, UK <i>Invited speaker</i> Electrically Responsive Biomaterials as Potential Drug Delivery Systems
12:00-14:00	LUNCH			
PARALLEL SESSIONS 14:00-15:10	INTERM	INTERM & BIOMATSEN	INTERM & BIOMATSEN	BIOMATSEN
	YUNUS EMRE 1	EFLATUN	HIPOKRAT	ARISTO

	<p><i>Chairperson: Alexander Khmaladze</i></p> <p>(14:00-14:30) Alexander Khmaladze SUNY at Albany, USA <i>Invited speaker</i> Raman hyperspectral imaging of cellular iron</p> <p>(14:30-15:00) Yongfeng Shen Northeastern University, China <i>Invited speaker</i> Interesting microstructural features of ultrahigh strength steel characterized by SEM/EBSD and TEM</p>	<p><i>Chairperson: Georgios Kokkinis</i></p> <p>(14:00-14:30) Georgios Kokkinis Pessl Instruments, Austria <i>Invited speaker</i> Challenges in The Commercialization of A Capillary Electrophoresis Microfluidic Platform</p> <p>(14:30-14:50) Muhammad Awais Naeem Jiangnan University, China ID266- Novel Fabrication Techniques for Bacterial Cellulose-Electrospun Nanofibrous Hybrid Tubular Structures</p> <p>(14:50-15:10) Serife Seyda Pirincci TUBITAK, Turkey ID126- Enhancement Of Sensitivity In Measurement Of Small Molecules By Surface Acoustic Wave Immunobiosensors</p>	<p><i>Chairperson: Séverine Vignoud</i></p> <p>(14:00-14:20) Séverine Vignoud CEA-Leti, France ID220- Hyaluronic Acid-cyclodextrin Crosslinked Nanofibers for Biomedical Applications</p> <p>(14:20-14:50) Jinho Lee Seoul National University, CCES IBS, Korea, Republic Of <i>Invited speaker</i> Spectroscopic Imaging of Denisty Waves in HTSC</p>	<p><i>Chairperson: Damion Corrigan</i></p> <p>(14:00-14:30) Damion Corrigan University of Strathclyde, UK <i>Invited speaker</i> Fabrication and development of microelectrodes for label-free biosensing</p> <p>(14:30-15:00) Taras Kavetskyy Drohobych Ivan Franko State Pedagogical University, Ukraine <i>Invited speaker</i> Advanced polymer materials for construction of third-generation amperometric enzyme biosensors</p>
15:10-15:30	COFFEE BREAK			
PARALLEL SESSIONS 15:30-17:00	INTERM	INTERM & BIOMATSEN	INTERM & BIOMATSEN	BIOMATSEN
	YUNUS EMRE 1	EFLATUN	HIPOKRAT	ARISTO
	<p><i>Chairperson: Andrei Salak</i></p> <p>(15:30-16:00) Andrei Salak CICECO, University of Aveiro, Portugal <i>Invited speaker</i> Combined Diffraction and Spectroscopic Study of Temperature Dependent Magnetic Behaviour of Co(II)-Containing Layered Double Hydroxides</p> <p>(16:00-16:30) Ángela Gallardo-López Universidad de Sevilla, Spain <i>Invited speaker</i> Tailoring the microstructure and performance of ceramic composites with graphene nano-platelets: electron microscopy as a basic tool</p> <p>(16:30-16:50) Amhil Samira Cadi-Ayyad University, Morocco ID228-Evidence of large hopping polaron conduction process in Strontium doped Calcium Copper Titanate ceramics</p>	<p><i>Chairperson: Ivana Durickovic</i></p> <p>(15:30-16:00) Ivana Durickovic Cerema, TEAM, France <i>Invited speaker</i> Characterization of aqueous media through the analysis of the O-H stretching band by Raman spectroscopy</p> <p>(16:00-16:20) Shahid Hameed Quaid-i-Azam University, Islamabad, Pakistan ID240- NMR Spectroscopy: A Tool for Chiral Recognition of Less Polar Classes of Organic Molecules</p> <p>(16:20-16:50) Phimraphas Ngamsantivongsa Defence Technology Institute, Thailand <i>Invited speaker</i> Fourier Transform Infrared Spectroscopy (FTIR) for characterization of ablative materials in Defence Technology</p>		<p><i>Chairperson: Victoria Shumyantseva</i></p> <p>(15:30-16:00) Victoria Shumyantseva Institute of Biomedical Chemistry, Russian Federation <i>Invited speaker</i> Electroanalysis in biochemical and biomedical researches</p> <p>(16:00-16:30) Denis Panaitescu National Institute for R&D in Chemistry and Petrochemistry, Romania <i>Invited speaker</i> Nanomaterials based on nanocellulose for biomedical applications</p> <p>(16:30-17:00) Roberto Olayo Universidad Autonoma Metropolitana, Department of Physics, Mexico City, Mexico <i>Invited speaker</i> Tissue Engineering Application in Articular Cartilage</p>
17:00-17:30	COFFEE BREAK			
17:30-18:30	<p>FOYER (Poster Session Area)</p> <p>Chairperson: A. Yavuz Oral</p> <p>POSTER SESSION – III</p> <p>(INTERM2019-BIOMATSEN2019)</p>			

PROGRAM
FRIDAY, MAY 17, 2019

		<i>INTERM</i>	<i>BIOMATSEN</i>		
		<i>YUNUS EMRE 1</i>	<i>ARISTO</i>	<i>HIPOKRAT</i>	
PARALLEL SESSIONS 10:00-12:00	<p><i>Chairperson: Darya Alontseva</i></p> <p><i>(10:00-10:30)</i> Darya Alontseva D. Serikbayev East Kazakhstan State Technical University, Kazakhstan <i>Invited speaker</i> Manufacturing of titanium/hydroxyapatite bilayer coatings on medical implants by robotic microplasma spraying</p> <p><i>(10:30-11:00)</i> Katsushi Hashimoto Tohoku University, Japan <i>Invited speaker</i> Nuclear Resonance Spectroscopic Imaging of Hyperfine-Coupled Quantum Hall System</p> <p><i>(11:00-11:30)</i> György Sáfrán Institute for Technical Physics, Centre for Energy Research, HAS., Hungary <i>Invited speaker</i> A micro-combinatorial approach for a reveal of composition dependent properties of binary films by TEM and further analytical techniques</p> <p><i>(11:30-12:00)</i> Katarzyna Bielska Nicolaus Copernicus University in Torun, Poland <i>Invited speaker</i> High resolution spectroscopy of weak molecular lines in an optical cavity</p>	<p><i>Chairperson: Vladimir Popok</i></p> <p><i>(10:00-10:30)</i> Vladimir Popok Aalborg University, Denmark <i>Invited speaker</i> Antibacterial Properties of Polystyrene Films with TiO_x and Cu Nanoparticles Deposited from Gas-Aggregation Sources</p> <p><i>(10:30-11:00)</i> Athanassia Athanassiou Istituto Italiano Di Tecnologia (IIT), Italy <i>Invited speaker</i> Biomaterials as active materials for wound management</p> <p><i>(11:00-11:30)</i> Jonathan Lao Université Clermont Auvergne, CNRS/IN2P3, LPC, France <i>Invited speaker</i> Organic-inorganic hybrids based on bioactive glass and polycaprolactone as bone substitutes</p> <p><i>(11:30-12:00)</i> Natalie Wisniewski Profusa, Inc., USA <i>Invited speaker</i> Breaking the Biocompatibility Barrier for Long-term Implantable Biosensors: Tissue-integrating Optical Sensors for Long Term Monitoring of Body Chemistries</p>	<p><i>Chairperson: Rafaela Cardoso</i></p> <p><i>(10:00-10:30)</i> Rafaela Cardoso CERIS/IST, University of Lisbon, Portugal <i>Invited speaker</i> Soil Improvement Using Ureolytic Bacteria and Monitoring Tools</p> <p><i>(10:30-11:00)</i> Pavel S. Postnikov Tomsk Polytechnic University, Russian Federation <i>Invited speaker</i> Diazonium surface chemistry: a versatile approach for creation of novel materials</p> <p><i>(11:00-11:30)</i> Ahmed Al-Kattan Aix-Marseille University, France <i>Invited speaker</i> Development of novel additives elaborated by ultrafast laser process for potential applications in biomedicine and tissue engineering</p> <p><i>(11:30-12:00)</i> Norizah Abdul Rahman University Putra Malaysia, Malaysia <i>Invited speaker</i> Conducting polymer micro/nanofibers-based DNA sensor</p>		
	12:00-13:15	LUNCH			
	13:15-18:00	<p><i>SOCIAL PROGRAM</i></p> <p><i>13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON & VISIT TO St. NICHOLAS ISLAND</i></p> <p><i>(Gathering at Congress registration desk)</i></p>			

PROGRAM
SATURDAY, MAY 18, 2019

INTERM & BIOMATSEN

YUNUS EMRE 1

Chairperson: Philippe Knauth

(10:00-10:30)

Philippe Knauth

Aix Marseille University, France

Invited speaker

Impedance spectroscopy of advanced materials: study of ionic conduction and degradation processes

(10:30-11:00)

Bing-Ming Cheng

National Synchrotron Radiation Research Center, Taiwan

Invited speaker

Photoluminescence of diamonds excitation with far-ultraviolet light from a synchrotron

(11:00-11:20)

Philippe Legros

CNRS/PLACAMAT, France

ID356-In-situ real-time study of LiBr, LiOH and Li₄Br(OH)₃ at microscale

(11:20-11:40)

Ozlem Bozkurt-Girit

Aydın Adnan Menderes University, Turkey

ID357- Application of Fourier Transform Infrared (FTIR) Imaging to Depict Structural Alterations in Nerve Injury and Neuropathy

PARALLEL SESSIONS 10:00-11:40

12:00

Hotel Check Out

PROGRAM LEGEND DESCRIPTIONS

ID-	INTERM 2019 oral presentations
ID-	BIOMATSEN 2019 oral presentations