

# INTERM 2019

6<sup>th</sup> INTERNATIONAL CONGRESS ON MICROSCOPY & SPECTROSCOPY

# BIOMATSEN 2019

4<sup>th</sup> INTERNATIONAL CONGRESS ON BIOMATERIALS & BIOSENSORS

MAY 12-18, 2019

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

**TENTATIVE PROGRAM**  
**FRIDAY, MAY 10, 2019**

14:00-23:30	<b>REGISTRATION FOR EARLY ARRIVALS</b> <b>(14:00 Check-in)</b>
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**TENTATIVE PROGRAM**  
**SATURDAY, MAY 11, 2019**

9:00-23:30	<b>REGISTRATION</b> <b>(14:00 Check-in)</b>
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**TENTATIVE PROGRAM**  
**SUNDAY, MAY 12, 2019**

**HALL 1**

**OPENING SESSION**  
10:00-10:15

Chairperson: **A. Yavuz Oral**

**OPENING CEREMONY**  
A. Yavuz Oral

**OPENING SESSION**  
10:15-11:00

Chairperson: **A. Yavuz Oral**

**M. Alper Şahiner**  
Seton Hall University, USA

“Ferroelectricity in HfO<sub>2</sub> Thin Films: Structures as Probed by X-ray Absorption Fine-Structure Spectroscopy”

11:00-11:45	<b>COFFEE BREAK</b>
<b>OPENING SESSION</b> 11:45-12:30	<p>Chairperson: <b>M. Alper Şahiner</b></p> <p style="text-align: center;"><b>Thomas J. Webster</b> Northeastern University, USA</p> <p style="text-align: center;"><b>“20 Years of Commercializing Nanomedicine: Real Patients with Real Results”</b></p>

12:30-14:00	<b>LUNCH</b>			
<b>PARALLEL SESSIONS</b> 14:00-15:00	<b>INTERM</b>		<b>BIOMATSEN</b>	
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 5</b>	<b>HALL 6</b>
	<p>Chairperson: <b>Hideaki Shirota</b></p> <p>(14:00-14:30) <b>Hideaki Shirota</b> 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</p> <p>(14.30-14:50) <b>Mihri Ozkan</b> University of California, Riverside, United States <b>ID389-Scalable Multifunctional Ultra-Thin Graphite Sponge</b></p>	<p>Chairperson: <b>Cengiz Özkan</b></p> <p>(14:00-14:30) <b>Cengiz Özkan</b> University of California Riverside, United States <i>Invited speaker</i> Design of Materials for Advanced Energy Storage</p> <p>(14:30-15:00) <b>Sam Yang</b> CSIRO, Australia <i>Invited speaker</i> Microscopic characterization of 3D-printed metals with data-constrained modelling and quantitative X-ray CT</p>	<p>Chairperson: <b>Tukayi Kudanga</b></p> <p>(14:00-14:30) <b>Tukayi Kudanga</b> Durban University of Technology, South Africa <i>Invited speaker</i> Laccases as versatile tools for the functionalisation of lignocellulose materials</p> <p>(14:30-15:00) <b>Jacques Desbrieres</b> University of Pau and Adour Countries, France <i>Invited speaker</i> Chitosan-based hydrogels as biomaterials for controlled release</p>	<p>Chairperson: <b>Lubomir Svorc</b></p> <p>(14:00-14:30) <b>Lubomir Svorc</b> Slovak University of Technology in Bratislava, Slovak Republic <i>Invited speaker</i> Boron-doped diamond-based electrochemical sensors in drug and food analysis</p> <p>(14:30-15:00) <b>Maria Luz Rodriguez-Mendez</b> Universidad de Valladolid, Spain <i>Invited speaker</i> Bioelectronic tongue based on electrochemical sensors. Applications in the food industry</p>
15:00-15:30	<b>COFFEE BREAK</b>			
<b>PARALLEL SESSIONS</b> 15:30-17:10	<b>INTERM</b>		<b>BIOMATSEN</b>	
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 5</b>	<b>HALL 6</b>

	<p><i>Chairperson: Jose Mustre de Leon</i></p> <p>(15:30-16:00)  <b>Jose Mustre de Leon</b>  Cinvestav, Mexico  <i>Invited speaker</i>  X-ray spectroscopies in Fe based superconductors</p> <p>(16:00-16:30)  <b>Yuval Cinnamon</b>  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)  <b>Cisem Altunayar-Unsalan</b>  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)  <b>Ryszard Zdyb</b>  Maria Curie-Sklodowska University, Poland  <i>Invited speaker</i>  Ferromagnetic Co films on silicene</p> <p>(16:00-16:30)  <b>Hellen Cristine Santos</b>  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)  <b>Jaroslav Durkovic</b>  Technical University in Zvolen, Slovakia  <b>ID250</b>-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)  <b>Milena Spirkova</b>  Institute of Macromolecular Chemistry AS CR, Czech Republic  <b>ID234</b>-Films and coatings based on polycarbonate-based polyurethanes and polyurethane nanocomposites</p>	<p><i>Chairperson: María Gasset</i></p> <p>(15:30-16:00)  <b>María Gasset</b>  IQFR-CSIC, Spain  <i>Invited speaker</i>  Amyloids as Biomineralizing Tools</p> <p>(16:00-16:30)  <b>Kyungpyo Park</b>  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)  <b>Affar Karimullah</b>  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)  <b>Paweł Ł. Sajkiewicz</b>  Institute of Fundamental Technological Research, Polish Academy of Sciences, Poland  <i>Invited speaker</i>  XXXXXXXX</p> <p>(16:00-16:30)  <b>Gualberto González-Sapienza</b>  Facultad de Química, Udelar, Uruguay  <i>Invited speaker</i>  Nanobodies: Tiny antibodies with a huge potential for immunosensing</p> <p>(16:30-17:00)  <b>Xiaoxia Zhu</b>  Université de Montréal, Canada  <i>Invited speaker</i>  New Biomaterials Made from Natural Compounds</p>
17:10-17:30	<b>COFFEE BREAK</b>			
17:30-18:30	<p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION – I</b></p> <p><b>(INTERM2019-BIOMATSEN2019)</b></p>			

**TENTATIVE PROGRAM**  
**MONDAY, MAY 13, 2019**

		<b>BIOMATSEN</b>			
<b>INTERM</b>					
<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 5</b>	<b>HALL 6</b>	<b>HALL 7</b>	
<p><i>Chairperson: Alexander Kamnev</i></p> <p>(09:30-10:00) <b>Alexander Kamnev</b> 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) <b>Zenon Rajfur</b> Jagiellonian University, Poland <i>Invited speaker</i> Advanced optical microscopy techniques in studies of cell migration mechanobiology</p> <p>(10:30-11:00) <b>Virginija Kepeniene</b> 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) <b>Sukarno Ferreira</b> 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) <b>King-Chuen Lin</b> 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) <b>Tetiana Prikhna</b> 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) <b>Javier Bartolome</b> 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) <b>Joze Grdadolnik</b> National Institute of Chemistry, Slovenia <i>Invited speaker</i> Hydrogen bonding in biomolecules</p> <p>(11:00-11:30) <b>Ryo Nouchi</b> Osaka Prefecture University, Japan <i>Invited speaker</i> Gate-controlled chemical reactions at graphene surface</p> <p>(11:30-12:00) <b>Sergio Moya</b> 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) <b>Mark Towler</b> Ryerson University, Canada <i>Invited speaker</i> A glass-based adhesive for skeletal fixation and stabilization</p> <p>(10:00-10:30) <b>Azade Yelten</b> Istanbul University-Cerrahpasa, Turkey <i>Invited speaker</i> A Comprehensive Look On Bioceramic Powder Synthesis</p> <p>(10:30-11:00) <b>Tzu-Sen Yang</b> 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) <b>Dmitry Gryadunov</b> Russian Academy of Sciences, Russian Federation <b>ID61-</b> Hydrogel microarrays as a tool for personalized medicine in present and future</p> <p>(11:20-11:40) <b>Ana Isabel González Garnica</b> University of Granada, Spain <b>ID123-</b> Polyoxometalates As Sensors Of Bacterial Activity</p> <p>(11:40-12:00) <b>Alexander Gerasimenko</b> I.M.Sechenov First Moscow State Medical University, Russian Federation <b>ID222-</b> 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) <b>Ross Rinaldi</b> 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) <b>Angel Licea Claverie</b> 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) <b>Hsien-Hung Wei</b> 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) <b>Agota Imre-Deak</b> University of Szeged, Hungary <b>(ID-146)</b> Photoreactive hybrid films with tunable wetting properties</p> <p>(11:20-11:40) <b>Laszlo Janovak</b> University of Szeged, Hungary <b>ID150-</b> Designed composites thin films and nanoparticles: from bio- inspired self-cleaning surface to stimuli responsive functional materials</p> <p>(11:40-12:00) <b>Edit Csapo</b> University of Szeged, Hungary <b>ID121-</b> 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) <b>Darja Lisjak</b> Jozef Stefan Institute, Slovenia <i>Invited speaker</i> Upconverting Nanoparticles For Biomedicine: The Dissolution Problematics And Possible Solutions</p> <p>(10:00-10:30) <b>Zhugen Yang</b> University of Glasgow, UK <i>Invited speaker</i> Low cost sensors for rapid medical diagnosis and environmental health</p> <p>(10:30-11:00) <b>Alberto Sinibaldi</b> 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) <b>Rabah Azouani</b> Ecole de Biologie Industrielle, France <i>Invited speaker</i> Antibacterial activity of ZnO and CuO nanoparticles</p> <p>(11:30-12:00) <b>Jacques Werckmann</b> Centro Brasileiro de Pesquisas Fisicas, Brasil <i>Invited speaker</i> Biomineseralization process in Magnetotactic bacteria and calcareous sponges</p>	
<b>12:00-13:15</b>	<b>LUNCH</b>				

PARALLEL SESSIONS 09:30-12:00

13:15-18:00

***SOCIAL PROGRAM***

***13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS***

***(Gathering at Congress registration desk)***

**TENTATIVE PROGRAM**

**TUESDAY, MAY 14, 2019**

<b>TENTATIVE PROGRAM</b>					
<b>TUESDAY, MAY 14, 2019</b>					
PARALLEL SESSIONS 10:00-12:30	<b>INTERM</b>			<b>BIOMATSEN</b>	
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 3</b>	<b>HALL 5</b>	<b>HALL 6</b>
	PARALLEL SESSIONS 10:00-12:30	<p><i>Chairperson: Masaharu Oshima</i></p> <p>(10:00-10:30) <b>Masaharu Oshima</b> The University of Tokyo, Japan <i>Invited speaker</i> Spectro-microscopy for green nano-materials/devices</p> <p>(10:30-11:00) <b>Mirjana Siljegovic</b> 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) <b>Manho Lim</b> 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) <b>Zofia Drzazga</b> 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) <b>Victor Pavlov</b> 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) <b>Aleksandr Kryshtal</b> 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) <b>Canan Aksoy</b> 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) <b>Zhang Yingxu</b> Beihang University, China <i>Invited speaker</i> Research on the intelligent technology of the Atomic Force Microscope</p> <p>(11:30-12:00) <b>Oleh Shpotyuk</b> 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) <b>Vladimir Vladimirovich Ovchinnikov</b> 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) <b>Antoine Barbier</b> 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) <b>Khrystyna Levchenko</b> 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) <b>Nan-Shan Chang</b> 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) <b>Nan-Shan Chang</b> National Cheng Kung University, Taiwan <b>ID267-</b> 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) <b>Sreedevi Upadhyayula</b> Indian Institute of Technology Delhi, India <i>Invited speaker</i> Application of Fourier transform infrared spectroscopy in Reaction Engineering and Heterogeneous Catalysis</p>	<p><i>Chairperson: M. Cristina Tanzi</i></p> <p>(10:00-10:30) <b>M. Cristina Tanzi</b> INSTM Politecnico di Milano, Italy <i>Invited speaker</i> Functionalized polyurethane foams and biomimetic composites for Tissue Engineering</p> <p>(10:30-11:00) <b>Ulf Anderegg</b> 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) <b>Anton Bonartsev</b> 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) <b>Jaehwan Kim</b> Inha University, Korea, Republic Of <i>Invited speaker</i> A sustainable cellulose coating for self-cleaning-healing fabric</p> <p>(12:00-12:30) <b>Manuel Palencia</b> Universidad del Valle, Colombia <i>Invited speaker</i> Cationic Polymer Surfaces with Antibacterial Properties for The Immunohematological Control of Blood</p>
<b>12:30-14:00</b>	<b>LUNCH</b>				
PARALLEL SESSIONS 14:00-15:00	<b>INTERM</b>			<b>BIOMATSEN</b>	
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 3</b>	<b>HALL 5</b>	<b>HALL 6</b>

	<p><i>Chairperson: Sheng-Lung Huang</i></p> <p><i>(14:00-14:30)</i>  <b>Sheng-Lung Huang</b>  National Taiwan University, Taiwan  <i>Invited speaker</i>  Glass-clad crystalline fiber based broadband light sources for optical coherence tomography</p> <p><i>(14:30-15:00)</i>  <b>Catarina Raposo</b>  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><i>(14:00-14:30)</i>  <b>Keita Kataoka</b>  Toyota Central R&amp;D Labs., Inc., Japan  <i>Invited speaker</i>  Determination of Band Diagram for GaN Power Devices using Hard X-ray Photoelectron Spectroscopy</p> <p><i>(14:30-15:00)</i>  <b>Zuzana Moravkova</b>  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><i>(14:00-14:30)</i>  <b>Małgorzata Jasiurkowska-Delaporte</b>  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><i>(14:30-15:00)</i>  <b>Jinfeng Yang</b>  Osaka University, Japan  <i>Invited speaker</i>  Relativistic femtosecond-pulsed electron microscopy</p>	<p><i>Chairperson: Fraser J Buchanan</i></p> <p><i>(14:00-14:30)</i>  <b>Fraser J Buchanan</b>  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><i>(14:30-14:50)</i>  <b>Ilker Bayer</b>  Italian Institute of Technology, Italy  <b>ID172-</b> Transparent Biopolymer Antioxidant Films for Controlled Release</p>	<p><i>Chairperson: Chiara Rotella</i></p> <p><i>(14:00-14:30)</i>  <b>Chiara Rotella</b>  Trinity College Dublin, Ireland  <i>Invited speaker</i>  Clinical microfluidic diagnostics using nanomechanical sensor arrays</p> <p><i>(14:30-15:00)</i>  <b>Claire E. Stanley</b>  Agroscope, Switzerland  <i>Invited speaker</i>  Soil-on-a-Chip: Exploring microbial interactions at the cellular level using microfluidic technology</p>
15:00-15:30	<b>COFFEE BREAK</b>				
PARALLEL SESSIONS 15:30-17:10	<b>INTERM</b>			<b>BIOMATSEN</b>	
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 3</b>	<b>HALL 5</b>	<b>HALL 6</b>



	<p><i>Chairperson: Ivania Markova-Deneva</i></p> <p>(15:30-16:00)  <b>Ivania Markova-Deneva</b>  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)  <b>Daniela Djikanovic</b>  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)  <b>Ewa Mijowska</b>  West Pomeranian University of Technology, Poland  <b>ID220</b>  Transition metal chalcogenides based polymer composites: Microscopic and Spectroscopic Characterization and Applications</p> <p>(16:50-17:10)  <b>Ryszard Kalenczuk</b>  West Pomeranian University of Technology, Poland  <b>ID221</b>-Microscopic and spectrometric studies on the new composite photocatalysts</p>	<p><i>Chairperson: Sho Amano</i></p> <p>(15:30-16:00)  <b>Sho Amano</b>  University of Hyogo, Japan  <i>Invited speaker</i>  Laser plasma source for soft X-ray microscope</p> <p>(16:00-16:30)  <b>Azizul Hakim</b>  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)  <b>Vladimir Kopecky</b>  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)  <b>Alexey V. Feofanov</b>  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)  <b>Saroj Kumar</b>  All India Institute of Medical Sciences, India  <b>ID306</b>- Applications of infrared microspectroscopy in disease</p> <p>(16:20-16:40)  <b>Magdy Al Salhy</b>  Stord Hospital/University of Bergen, Norway  <b>ID336</b>- Clinical implications of microscopy and computer image analysis of the enteroendocrine cells in patients with irritable bowel syndrome</p> <p>(16:40-17:00)  <b>Zbigniew Baster</b>  Jagiellonian University, Poland  <b>ID294</b>- Genetically encoded FRET biosensors in cell migration biomechanical studies</p>	<p><i>Chairperson: Snezana Ilic-Stojanovic</i></p> <p>(15:30-16:00)  <b>Snezana Ilic-Stojanovic</b>  University of Niš, Faculty of Technology, Serbia  <i>Invited speaker</i>  Intelligent thermo-sensitive hydrogels for biomedical applications</p> <p>(16:00-16:30)  <b>Hans Bäuml</b>  Charité-Universitätsmedizin Berlin, Germany  <i>Invited speaker</i>  Fabrication of multifunctional Nano and Micro size biopolymer Particles</p> <p>(16:30-16:50)  <b>Slawomir Szafert</b>  University of Wrocław, Poland  <b>ID217</b>- Organic-Inorganic Hybrid Materials For Bone Tissue Engineering</p> <p>(16:50-17:10)  <b>Ana Carina Beata Manjua</b>  IBB-IST, LAQV-REQUIMTE FCT-UNL, Portugal  <b>ID155</b>-Promoting Angiogenesis Phenomena using Magnetic Scaffolds</p>	<p><i>Chairperson: Marek Godlewski</i></p> <p>(15:30-16:00)  <b>Marek Godlewski</b>  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)  <b>Reuven Rasooly</b>  USDA, United States  <i>Invited speaker</i>  Sensitive bioassay for detection of biologically active microbial toxins in food.</p> <p>(16:30-16:50)  <b>Olga Guselnikova</b>  Tomsk Polytechnic University, Russian Federation  <b>ID191</b>-Artificial neural network for the smart SERS-based biosensing: a case of UV-induced DNA damage</p>
17:10-17:30	<b>COFFEE BREAK</b>				
17:30-18:30	<p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION – II</b></p> <p><b>(INTERM2019-BIOMATSEN2019)</b></p>				



**TENTATIVE PROGRAM**  
**WEDNESDAY, MAY 15, 2019**

	<i>INTERM</i>	<i>INTERM &amp; BIOMATSEN</i>	<i>BIOMATSEN</i>
	<i>HALL 1</i>	<i>HALL 2</i>	<i>HALL 6</i>
<b>PARALLEL SESSIONS 10:00-12:00</b>	<p><i>Chairperson: Violeta Oro</i></p> <p>(10:00-10:30) <b>Violeta Oro</b> 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) <b>Vlastimil Krapek</b> Brno University of Technology, Czech Republic <i>Invited speaker</i> Quantitative phase imaging of plasmonic metasurfaces</p> <p>(11:00-11:30) <b>Kazuo Umemura</b> Tokyo University of Science, Japan <i>Invited speaker</i> Microscopy and spectroscopy of nanobioconjugates of carbon nanotubes</p> <p>(11:30-12:00) <b>Teruo Suzuki</b> Socionext Inc., Japan <i>Invited speaker</i> Calibration problem and solution in Transmission Line Pulse of packaged sample</p>	<p><i>Chairperson: Imre Dékány</i></p> <p>(10:00-10:30) <b>Imre Dékány</b> 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) <b>Zhe Chen</b> 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) <b>Czesława Paluszkiwicz</b> 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) <b>Yuanhan Luo</b> Jinan University, China <i>Invited speaker</i> Highly Sensitive Surface Plasmon Resonance Biosensor Modified with Halloysite Nanotubes</p>	<p><i>Chairperson: Virginia Pensabene</i></p> <p>(10:00-10:30) <b>Virginia Pensabene</b> 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) <b>Liviu Clime</b> National Research Council of Canada, Canada <i>Invited speaker</i> Applications of inertial focusing in continuous-flow microfluidics</p> <p>(11:00-11:30) <b>Heli Bentolhoda</b> Polytechnique Montreal, Canada <i>Invited speaker</i> A solid-state sensitive optical sensor based on plasmonic nanopaper</p> <p>(11:30-12:00) <b>Karim Fahmy</b> Helmholtz-Zentrum Dresden-Rossendorf, Germany <i>Invited speaker</i> Emerging nanoscale membrane mimetics for research and biosensing</p>
12:00-13:15	<b>LUNCH</b>		
13:15-18:00	<p style="text-align: center;"><b>SOCIAL PROGRAM</b></p> <p style="text-align: center;">13:15-18:00 <b>LYCIAN WAY TREKKING TOUR OR SAKLIKENT JEEP SAFARI TOUR</b></p> <p style="text-align: center;"><i>(Gathering at Congress registration desk)</i></p>		

**TENTATIVE PROGRAM**

**THURSDAY, MAY 16, 2019**

<b>OPENING SESSION</b> 10:00-10:45	Chairperson: <b>Ersin Kayahan</b>  <p style="text-align: center;"><b>Sumio Iijima</b> 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	<b>COFFEE BREAK</b>		
<b>PARALLEL SESSIONS</b> 11:00-12:00	<b>INTERM</b>	<b>INTERM &amp; BIOMATSEN</b>	<b>BIOMATSEN</b>
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 5</b>
	Chairperson: <b>Prasath Babu Revathy Rajan</b>  (11:00-11:30) <b>Prasath Babu Revathy Rajan</b> 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) <b>Felipe Mergulhão</b> FEUP, Portugal <i>Invited speaker</i> Microscopic Investigation of Bacterial Biofilm Development in Flow Systems	Chairperson: <b>Dehua Li</b>  (11:00-11:30) <b>Dehua Li</b> Shandong University of Science and Technology, China <i>Invited speaker</i> Coal tar Terahertz spectrum investigation  (11:30-12:00) <b>Kenji Hata</b> National Institute of Advanced Industrial Science and Technology (AIST), Japan <i>Invited speaker</i> Xxxx xxx	Chairperson: <b>Abdullah M. Ibrahim Tashtoush</b>  (11:00-11:30) <b>Abdullah M. Ibrahim Tashtoush</b> Yarmouk University, Jordan <i>Invited speaker</i> Feasibility of Micro-Nanotechnology in Biomedical Applications  (11:30-12:00) <b>Melike Firlak</b> Lancaster University, UK <i>Invited speaker</i> Electrically Responsive Biomaterials as Potential Drug Delivery Systems
12:00-14:00	<b>LUNCH</b>		
<b>PARALLEL SESSIONS</b> 14:00-15:00	<b>INTERM</b>	<b>INTERM &amp; BIOMATSEN</b>	<b>BIOMATSEN</b>
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 5</b>
	Chairperson: <b>Alexander Khmaladze</b>  (14:00-14:30) <b>Alexander Khmaladze</b> SUNY at Albany, USA <i>Invited speaker</i> Raman hyperspectral imaging of cellular iron  (14:30-15:00) <b>Yongfeng Shen</b> Northeastern University, China <i>Invited speaker</i> Xxxx xxxxx	Chairperson: <b>Georgios Kokkinis</b>  (14:00-14:30) <b>Georgios Kokkinis</b> Pessl Instruments, Austria <i>Invited speaker</i> Challenges in The Commercialization of A Capillary Electrophoresis Microfluidic Platform  (14:30-14:50) <b>Muhammad Awais Naeem</b> Jiangnan University, China <b>ID266- Novel Fabrication Techniques for Bacterial Cellulose-Electrospun Nanofibrous Hybrid Tubular Structures</b>	Chairperson: <b>Damion Corrigan</b>  (14:00-14:30) <b>Damion Corrigan</b> University of Strathclyde, UK <i>Invited speaker</i> Fabrication and development of microelectrodes for label-free biosensing  (14:30-15:00) <b>Taras Kavetsky</b> Drohobych Ivan Franko State Pedagogical University, Ukraine <i>Invited speaker</i> Advanced polymer materials for construction of third-generation amperometric enzyme biosensors
15:00-15:30	<b>COFFEE BREAK</b>		
<b>PARALLEL SESSIONS</b> 15:30-17:00	<b>INTERM</b>	<b>INTERM &amp; BIOMATSEN</b>	<b>BIOMATSEN</b>
	<b>HALL 1</b>	<b>HALL 2</b>	<b>HALL 5</b>

	<p><i>Chairperson: Andrei Salak</i></p> <p>(15:30-16:00)  <b>Andrei Salak</b>  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)  <b>Ángela Gallardo-López</b>  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)  <b>Amhil Samira</b>  Cadi-Ayyad University, Morocco  <b>ID228</b>-Evidence of large hopping polaron conduction process in Strontium doped Calcium Copper Titanate ceramics</p>	<p><i>Chairperson: Siwen Bi</i></p> <p>(15:30-16:00)  <b>Siwen Bi</b>  Chinese Academy of Sciences, China  <i>Invited speaker</i>  Research on the High Resolution Infrared Quantum Spectral Detection Imaging Technology</p> <p>(16:00-16:20)  <b>Shahid Hameed</b>  Quaid-i-Azam University, Islamabad, Pakistan  <b>ID240</b>- NMR Spectroscopy: A Tool for Chiral Recognition of Less Polar Classes of Organic Molecules</p>	<p><i>Chairperson: Victoria Shumyantseva</i></p> <p>(15:30-16:00)  <b>Victoria Shumyantseva</b>  Institute of Biomedical Chemistry, Russian Federation  <i>Invited speaker</i>  Electroanalysis in biochemical and biomedical researches</p> <p>(16:00-16:30)  <b>Denis Panaitescu</b>  National Institute for R&amp;D in Chemistry and Petrochemistry, Romania  <i>Invited speaker</i>  Nanomaterials based on nanocellulose for biomedical applications</p> <p>(16:30-17:00)  <b>Roberto Olayo</b>  Universidad Autonoma Metropolitana, Department of Physics, Mexico City, Mexico  <i>Invited speaker</i>  Tissue Engineering Application in Articular Cartilage</p>
17:00-17:30	<b>COFFEE BREAK</b>		
17:30-18:30	<p><b>FOYER (Poster Session Area)</b></p> <p>Chairperson: A. Yavuz Oral</p> <p><b>POSTER SESSION – III</b></p> <p><b>(INTERM2019-BIOMATSEN2019)</b></p>		

**TENTATIVE PROGRAM**  
**FRIDAY, MAY 17, 2019**

		<b>INTERM</b>	<b>BIOMATSEN</b>	
		<b>HALL 1</b>	<b>HALL 5</b>	<b>HALL 6</b>
<b>PARALLEL SESSIONS 10:00-12:00</b>	<b>Chairperson: Darya Alontseva</b>		<b>Chairperson: Vladimir Popok</b>	<b>Chairperson: Rafaela Cardoso</b>
	(10:00-10:30) <b>Darya Alontseva</b> D. Serikbayev East Kazakhstan State Technical University, Kazakhstan <b>Invited speaker</b> Manufacturing of titanium/hydroxyapatite bilayer coatings on medical implants by robotic microplasma spraying	(10:00-10:30) <b>Vladimir Popok</b> Aalborg University, Denmark <b>Invited speaker</b> Antibacterial Properties of Polystyrene Films with TiO <sub>x</sub> and Cu Nanoparticles Deposited from Gas- Aggregation Sources	(10:00-10:30) <b>Rafaela Cardoso</b> CERIS/IST, University of Lisbon, Portugal <b>Invited speaker</b> Soil Improvement Using Ureolytic Bacteria and Monitoring Tools	
	(10:30-11:00) <b>Katsushi Hashimoto</b> Tohoku University, Japan <b>Invited speaker</b> Nuclear Resonance Spectroscopic Imaging of Hyperfine-Coupled Quantum Hall System	(10:30-11:00) <b>Athanassia Athanassiou</b> Istituto Italiano Di Tecnologia (IIT), Italy <b>Invited speaker</b> Biomaterials as active materials for wound management	(10:30-11:00) <b>Pavel S. Postnikov</b> Tomsk Polytechnic University, Russian Federation <b>Invited speaker</b> Diazonium surface chemistry: a versatile approach for creation of novel materials	
	(11:00-11:30) <b>György Sáfrán</b> Institute for Technical Physics, Centre for Energy Research, HAS., Hungary <b>Invited speaker</b> A micro-combinatorial approach for a reveal of composition dependent properties of binary films by TEM and further analytical techniques	(11:00-11:30) <b>Jonathan Lao</b> Université Clermont Auvergne, CNRS/IN2P3, LPC, France <b>Invited speaker</b> Organic-inorganic hybrids based on bioactive glass and polycaprolactone as bone substitutes	(11:00-11:30) <b>Ahmed Al-Kattan</b> Aix-Marseille University, France <b>Invited speaker</b> Development of novel additives elaborated by ultrafast laser process for potential applications in biomedicine and tissue engineering	
(11:30-12:00) <b>Katarzyna Bielska</b> Nicolaus Copernicus University in Torun, Poland <b>Invited speaker</b> High resolution spectroscopy of weak molecular lines in an optical cavity	(11:30-12:00) <b>Natalie Wisniewski</b> Profusa, Inc., USA <b>Invited speaker</b> Breaking the Biocompatibility Barrier for Long-term Implantable Biosensors: Tissue-integrating Optical Sensors for Long Term Monitoring of Body Chemistries	(11:30-12:00) <b>Norizah Abdul Rahman</b> Universiti Putra Malaysia, Malaysia <b>Invited speaker</b> Conducting polymer micro/nanofibers-based DNA sensor		
12:00- 13:15	<b>LUNCH</b>			
13:15- 18:00	<p style="text-align: center;"><b>SOCIAL PROGRAM</b></p> <p style="text-align: center;"><b>13:15-18:00 THE BOAT CRUISE AROUND EXCELLENT BAYS OF BLUE LAGOON &amp; VISIT TO St. NICHOLAS ISLAND</b></p> <p style="text-align: center;"><i>(Gathering at Congress registration desk)</i></p>			

**TENTATIVE PROGRAM**  
**SATURDAY, MAY 18, 2019**

**INTERM & BIOMATSEN**

**HALL 2**

*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**

<b>ID-</b>	<b>INTERM 2019 oral presentations</b>
<b>ID-</b>	<b>BIOMATSEN 2019 oral presentations</b>