

World Congress on

# MATERIALS SCIENCE AND ENGINEERING

## THEME:-

“Exploring the  
Frontiers of  
Materials  
Science and  
Engineering”

## DATES:-

September 14 & 15, 2026 (In-Person)  
September 16, 2026 (Virtual Via Zoom Platform)

## VENUE:-

Movenpick Hotel Budapest  
Centre, Hungary



# TENTATIVE AGENDA



## DAY - 1-3

Movenpick Hotel Budapest Centre, Hungary

# Tentative Agenda

Introduction & Opening Ceremony

LAST UPDATED ON 10<sup>th</sup> APRIL 2026

## Keynote Presentation

Prof. Joseph H. Koo	<i>The University of Texas at Austin, USA</i>	<b>Novel Fiber-Reinforced Polysiloxane Composites for Extreme Aerospace Applications</b>
Dr. Sven Simon	<i>University of Stuttgart, Germany</i>	<b>The AI Revolution in Laboratory and Synchrotron X-ray Computed Tomography</b>
Prof. Andrea Lamberti	<i>politecnico di torino, Italy</i>	<b>Electrochemistry at the nanoscale: powering sustainable energy harvesting and storage for industrial applications</b>
Mr. Albin Kälin	<i>CEO epeaswitzerland gmbh, Switzerland</i>	<b>Cradle to Cradle Design Innovations</b>
Prof. Junhui Hu	<i>Nanjing University of Aeronautics &amp; Astronautics, China</i>	<b>Ultrasonic Enhancement and Fabrication of Gas Sensors</b>
Prof. Yoed Tsur	<i>Technion, Israel</i>	<b>The Doping Factor Approach in Solid State Ionics</b>
Prof. Jacob Gavan	<i>Holon Institute of Technology, Israel</i>	<b>Power Beaming for Commercial Solar Energy and Defense Applications</b>
Prof. Yukiharu Uraoka	<i>Nara Institute of Science and Technology, Japan</i>	<b>High Performance Metal Oxide Thin Film Transistor using ALD Method</b>
Prof. Win-long Chia	<i>Fu Jen Catholic University, Taiwan</i>	<b>A Lifetime on Synthesis of Nitrogen-Containing Liquid Crystals in Taiwan</b>
Prof. Show-An Chen	<i>National Tsing Hua University, Taiwan</i>	<b>Molecular Design on Semiconductive Polymers for Opto-Electronics Interconversion with High Device Performance</b>
Prof. Cristina Satriano	<i>University of Catania, Italy</i>	<b>Multipurpose Hybrids Beyond Graphene with Plasmonic Nanoparticles and Magnetite for Theranostics and Sustainable Environmental Applications</b>
Prof. Masahiro Miyauchi	<i>Institute of Science Tokyo, Japan</i>	<b>Semiconductor-Based Photocatalyst for Gas-Phase CO<sub>2</sub> Reduction</b>
Prof. Tohru Higuchi	<i>Tokyo University of Science, Japan</i>	<b>Clean Energy Device Using Oxide Superionic Conductor Solid Electrolyte Thin Film</b>
Prof. Bun Tsuchiya	<i>Meijo University, Japan</i>	<b>Hydrogen Absorption and Desorption Characteristics of Li<sub>x</sub>CoO<sub>2</sub> Positive Electrode Materials in Li<sup>+</sup> Ion Rechargeable Batteries</b>
Prof. Brigita Rožič	<i>Jožef Stefan Institute, Slovenia</i>	<b>Liquid Crystal-Based Caloric Materials for Green Cooling Technologies</b>

<b>Prof. Olivier BONNAUD</b>	<i>University of Rennes, France</i>	<b>The Future of Higher Education in Microelectronics and Nanotechnology in the Evolving Digital World: Role of the Materials</b>
<b>Prof. Cong Wang</b>	<i>Beihang University, China</i>	<b>Strain Regulation of the Magnetic Structures and Properties in Antiperovskite Antiferromagnetic Mn<sub>3</sub>XN(C) Compounds</b>
<b>Prof. Mineo Hiramatsu</b>	<i>Meijo University, Japan</i>	<b>Engineering Three-Dimensional Graphene Architectures by Plasma Processes for Advanced Carbon Materials</b>
<b>Prof. Lev S. Rapoport</b>	<i>Holon Institute of Technology, Israel</i>	<b>Crystal Plasticity of FCC Metals Under Steady-State and Instable Friction</b>
<b>Dr. José L. OCAÑA</b>	<i>UNIVERSIDAD POLITÉCNICA DE MADRID, Spain</i>	<b>Laser Shock Processing: An Advanced Technique for the Enhancement of the Fatigue Life and Mechanical Performance of Strategic Metallic Materials</b>
<b>Prof. Jiandong Guo</b>	<i>Chinese Academy Of Sciences, China</i>	<b>Growth of Ultrathin CrxTey Films and Their Magnetism in the Two-Dimensional Limit</b>
<b>Prof. Tatiana E. ITINA</b>	<i>CNRS, Université Jean Monnet, France</i>	<b>From Ultrafast Laser Excitation to Functional Nanomaterials: Multiscale Insights</b>
<b>Prof. Changguo Wang</b>	<i>Harbin Institute of Technology, China</i>	<b>Thermal Nonreciprocity in Wrinkled Graphene</b>
<b>Prof. Zhengjun Zhang</b>	<i>Tsinghua University, China</i>	<b>From Ultrafast Laser Excitation to Functional Nanomaterials: Multiscale Insights</b>
<b>Dr. Héctor Hugo Pérez Garza</b>	<i>DENSsolutions BV, The Netherlands</i>	<b>Next-Generation Environmental In Situ System for Correlative Research Across TEM, SEM, and Synchrotrons</b>
<b>Prof. Jiong Zhou</b>	<i>Northeastern University, China</i>	<b>Macrocycle Co-Crystal Materials</b>
<b>Prof. Benigno Rodriguez Diaz</b>	<i>Universidad de la República, Uruguay</i>	<b>The Design of More Efficient Antennas as a Strategy for Climate Change Mitigation</b>
<b>Prof. Anita-Ioana Visan</b>	<i>National Institute for lasers, plasma and radiation physics, Romania</i>	<b>Bioinspired and Biomimetic Nanomaterials as Coatings for Advancing Nanomedicine</b>
<b>Prof. Irina Negut</b>	<i>National Institute for lasers, plasma and radiation physics, Romania</i>	<b>Thin Films deposited by Matrix-Assisted Pulsed Laser Evaporation for Tissue Engineering Applications</b>
<b>Prof. Anelie Petrisans</b>	<i>Université de Lorraine, France</i>	<b>Wood Torrefaction: An Innovative Production of Sustainable Material. Influencing Factors and Scale up From Laboratory to Industrial Process</b>

<b>Dr. Michael Zharnikov</b>	<i>Heidelberg University, Germany</i>	<b>New Aspects of Electrostatic Engineering of Surfaces and Interfaces</b>
<b>Prof. Rie Umetsu</b>	<i>Tohoku University, Japan</i>	<b>Magnetic Properties and Energy State of Half-Metallic Co-based Heusler Alloys</b>
<b>Dr. Yuhu Zhai</b>	<i>Princeton Plasma Physics Laboratory, USA</i>	<b>Fusion Materials Needs to Mature Enabling Technologies for Energy and Science</b>

## Oral Presentation

<b>Dr. Dimitrios Kotzias</b>	<i>Former Senior Official, European Commission—Joint Research Centre, Italy</i>	<b>Smart surfaces: Heterogeneous photocatalysis of priority air pollutants on TiO<sub>2</sub>-based coatings in indoor and outdoor environments- A mechanistic view of the processes at the air/catalyst interface.</b>
<b>Prof. Masanao Imai &amp; Mr. Homare Tsugifuji</b>	<i>Kanto Gakuin University, Japan</i>	<b>New Horizons of Liquid Marbles for Controlled Release of Volatile Bio-functional Components</b>
<b>Prof. Haiming Luo</b>	<i>Hainan University, China</i>	<b>Sensitive Detection of Multiple Blood Biomarkers via Immunomagnetic Exosomal PCR for the Diagnosis of Alzheimer's Disease</b>
<b>Dr. Hiroyuki Aoki</b>	<i>Japan Atomic Energy Agency, Japan</i>	<b>Interface Engineering to Enhance Adhesion Strength in High Humidity</b>
<b>Prof. Maria Glushkova</b>	<i>Rostov State Medical University, Russia</i>	<b>Systemic Blood Changes in Skin Hyperpigmentation. Correction Possibilities</b>
<b>Prof. Karolina Kiełbasa</b>	<i>West Pomeranian University of Technology in Szczecin, Poland</i>	<b>Carbon Materials: Synthesis Pathways from Nonporous to Microporous Carbon Adsorbents Derived from Molasses for CO<sub>2</sub> Removal Applications</b>
<b>Prof. Stephen W Tsai</b>	<i>Stanford University California, USA</i>	<b>Double-Double: A Revolutionary Laminate Theory</b>
<b>Mr. Gunther Van Kerckhove</b>	<i>OCSiAl Group, Luxembourg</i>	<b>Importance of Exposure Assessment Along Life Cycle of Nanocomposites</b>
<b>Prof. Iliana A Ivanova</b>	<i>Sofia University, St. Kliment Ohridski, Bulgaria</i>	<b>Optical, Photocatalytic, and Antibacterial Properties of Sol-Gel Derived Fe Doped SrTiO<sub>3</sub> Powders</b>
<b>Dr. Maresca Marc</b>	<i>Aix Marseille University, France</i>	<b>Doing Better Than Nature: Use of Synthetic Antibacterial Copolymers (SACs) Mimicking Natural Antimicrobial Peptides (AMPs) to Confer Antimicrobial Properties to Materials.</b>
<b>Dr. Shuji Ogata</b>	<i>Nagoya Institute of Technology, Japan</i>	<b>High-Performance Polymers and Composites for Advanced Engineering</b>

**Dr. Shijeesh M. Raman** *Universidad Politécnica de Madrid, Spain*

**Integrating 2D MoS<sub>2</sub> FETs with PVDF Triboelectric Layers for Next-Generation Artificial Sensory Systems**

**Exploring the adsorption mechanism of two new organic agents on Carbon steel: Electrochemical, surface investigations and computational insights**

**Sustainable Catalysis for Green Chemistry and Energy Transition**

**Evaluation of Optimal Porous Nanomaterials for Low-Temperature, Vibration-Free Cryocoolers**

**The Gauss's Theorema Egregium-The Importance of Non-Euclidean Geometry**

**Later Temporal Attention in Computer Aided Medical Diagnosis**

**A Smart Textile Underlay providing a Large-Area Sensor Floor**

**Towards an Understanding of The Exotic Properties of 3d Transition Metal and Rare Earth Compounds**

**Dr. Hicham Fakhry** *Ibn Tofail University, Morocco*

**Prof. Delia Teresa Sponza & Dr. Rukiye Öztekin** *Dokuz Eylül University, Turkey*

**Prof. José Paulo Barbosa Mota** *NOVA University Lisbon, Portugal*

**Dr. Peter Gyarmati** *Stanford University, USA*

**Prof. Jiaxin Cai** *Xiamen University of Technology, China*

**Assoc. Christl Lauterbach** *Future-Shape GmbH, Germany*

**Dr. George Sawatzky** *Soochow University, China*

## Oral Presentation

**Prof. Silvete Coradi Guerini** *Federal University of Maranhão, Brazil*

**Advances In High-Voltage Consolidation Of Powder Materials**

**Dr. Abhishek Srivastava** *University of Freiburg, Germany*

**Autonomous Chemical Sensing via Buckling in Responsive Microfluidic Membranes**

**Prof. Angyang Yu** *Harbin Institute of Technology, China*

**Doping Effects on Hydrogen Storage Properties of Graphene**

**Prof. Adelhamid El kaaouachi** *Faculty of Sciences Ibn Zohr of Agadir, Morocco*

**Magnetoconductivity Behaviour Due to Electron–Electron Interactions, Weak Localization and Zeeman Effects in 2-D-layered WS<sub>2</sub>**

**Prof. Masatoshi Shimoda** *Toyota Technological Institute, Japan*

**Topology Optimization with Optimized Design Domain for Designing Biologically Derived Microstructures**

**Prof. Xie Quan** *Dalian University of Technology, China*

**Engineering Single-Atom Catalysts for Advanced Electro-Fenton Processes in Water Purification**

**Zahir Sayyed** *Vmware, US*

**Development of a Simulator to Mimic VMware vCloud Director (VCD) API Calls for Cloud Orchestration**

**Assoc. Nikola Biliškov**

*Ruđer Bošković Institute, Croatia*

**How Solid-State Reactions Work from Mechanochemistry to Contact Reactions**

**Prof. Hajime Shirai**

*Saitama University, Japan*

**Electrostatic Rectification of Li<sup>+</sup> Transport in Amorphous TiO<sub>x</sub> Thin Films Grown by Mist CVD**

**\*\*\*Speaker Slots Available\*\*\***

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**\*\*\*Speaker Slots Available\*\*\***

**\*\*\*Speaker Slots Available\*\*\***

**Poster Presentation**

**Hussein Fawzi Hussein**

*Scientific Research Commission,  
Baghdad, Iraq*

**Effect Of Nitride Time on the Mechanical Properties for the (Ti6Al4V) and (Ti6Al7Nb) Alloys for using Medical Applications**

**Dr. Bachir Bachir Bouiadjra**

*Electromechanical department  
University of Oran2 Mohamed Ben Ahmed, Algeria*

**Fabrication, Biocompatibility, and Therapeutic Applications**

**Dr. Chang Su Woo**

*Korea Institute of Machinery & materials, Rep. of Korea*

**Characteristic Analysis of Rubber Components**

**Mr. Ricky Yu-Syun Fan**

*National Taiwan University, Taiwan*

**The Modification of Metallic Organic Framework Material and its Application on Electrocatalysis and Lithium-ion Storage**

**Ms. Emelia Sim Eng Zhi**

*National Taiwan University, Taiwan*

**Ni-Co Prussian-Blue-Analogue-Derived Porous Oxides Show Dose-Dependent Antibacterial Activity Against Escherichia coli**

**Dr. Constantinos Siotas**

*University of Southern California,  
USA*

**Electrostatic Enhancement of the Collection Efficiency of Stainless-Steel Filters**



11 Waldeck Road, Luton, England, LU1 1HG

Email: [support@pagicle.com](mailto:support@pagicle.com)

Tel: +44 (772)-355-2714

