



2nd International Summit on

MATERIALS SCIENCE & ENGINEERING

Theme:

**“Materials Shaping the Future:
From Fundamentals to Frontier Technologies”**

Dates:

September 14 & 15, 2026 (In-Person)

Venue:

Movenpick Hotel Budapest Centre, Hungary

08:30 - 09:00 Onsite Registration & Seating Arrangement
09:00 - 09:30 Introduction & Open Ceremony

Keynote Presentation

09:30 - 09:55	Prof. Dr. José L. Ocana Universidad Politécnica De Madrid, Spain	Laser Shock Processing: An Advanced Technique for the Enhancement of the Fatigue Life and Mechanical Performance of Strategic Metallic Materials
09:55 - 10:20	Prof. Cristina Satriano University of Catania, Italy	Multipurpose Hybrids Beyond Graphene with Plasmonic Nanoparticles and Magnetite for Theranostics and Sustainable Environmental Applications

Refreshment & Coffee - 10:20 - 10:40

Keynote Presentation

10:40 - 11:05	Dr. Sven Simon University of Stuttgart, Germany	The AI Revolution in Laboratory and Synchrotron X-ray Computed Tomography
11:05 - 11:30	Prof. Lev S. Rapoport Holon Institute of Technology, Israel	Crystal Plasticity of FCC Metals Under Steady-State and Instable Friction
11:30 - 11:55	Prof. Bun Tsuchiya Meijo University, Japan	Hydrogen Absorption and Desorption Characteristics of Li _x CoO ₂ Positive Electrode Materials in Li ⁺ Ion Rechargeable Batteries
11:55 - 12:20	Prof. Natasha Lushetich University of Dundee, UK	On Energetic-Intelligent Materials and their Modes of Production
12:20 - 12:45	Prof. Joseph H. Koo The University of Texas at Austin, USA	Novel Fiber-Reinforced Polysiloxane Composites for Extreme Aerospace Applications
12:45 - 13:10	Prof. Mineo Hiramatsu Meijo University, Japan	Engineering Three-Dimensional Graphene Architectures by Plasma Processes for Advanced Carbon Materials

Memorable Group Photo & Tempting Buffet lunch - 13:10 - 13:55

Keynote Presentation Cont.....

13:55 - 14:20	Dr. Héctor Hugo Pérez Garza DENSsolutions BV, The Netherlands	Next-Generation Environmental In Situ System for Correlative Research Across TEM, SEM, and Synchrotrons
14:20 - 14:45	Prof. Win-long Chia Fu Jen Catholic University, Taiwan	A Lifetime on Synthesis of Nitrogen-Containing Liquid Crystals in Taiwan
14:45 - 15:10	Prof. Sibudjing Kawi National University of Singapore, Singapore	Sustainable Catalysis with Membrane or Plasma for Greenhouse Gas Valorization
15:10 - 15:35	Prof. Olivier Bonnaud University of Rennes, France	The Future of Higher Education in Microelectronics and Nanotechnology in the Evolving Digital World: Role of the Materials

Oral Presentation

15:35 - 15:55	Assoc. Christl Lauterbach Future-Shape GmbH, Germany	A Smart Textile Underlay Providing a Large-Area Sensor Floor
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15:55 - 16:15	Prof. Juan Casado University of Malaga, Spain	Photonic Materials from Chemical Design: Narrowband Emitters and Laser Dyes
16:15 - 16:35	Prof. Shing-jiang Jessie Lue Chang Gung University, Taiwan	Comparative Analysis of Green and Chemically Synthesized AgNPs: Particle Size Correlations, Biocompatibility, and Antimicrobial Mechanisms against <i>S. aureus</i>
16:35 - 16:55	Prof. Bing Yan Guangzhou University, China	A Systematic Exploration of Structure-Bioactivity Relationship of Nanoparticles
16:55 - 17:15	Prof. Masatoshi Shimoda Toyota Technological Institute, Japan	Topology Optimization with Optimized Design Domain for Designing Biologically Derived Microstructures

Refreshment & Coffee - 17:15 - 17:35

Oral Presentation Cont.....

17:35 - 17:55	Mr. Hector Georgy Freire Cabrera Escuela Politecnica Nacional, Ecuador	Conversion of Aluminum-Rich Industrial Wastes into High-Value Ceramic Materials and Aluminum Compounds
17:55 - 18:15	Dr. Hiroyuki Aoki Japan Atomic Energy Agency, Japan	Interface Engineering to Enhance Adhesion Strength in High Humidity
18:15 - 18:35	Prof. Maria Glushkova Rostov State Medical University, Russia	Systemic Blood Changes in Skin Hyperpigmentation. Correction Possibilities
18:35 - 18:55	Prof. Seung Gu Shin Gyeongsang National University, Republic of Korea	In Situ Reduction of Graphene Oxide During Anaerobic Digestion Shifts its role from Inhibitor to Potential Promoter of Methanogenesis

Poster Presentation (18:55- 19:25)

NBC261	Prof. Juhee Shin Gyeongsang National University, Republic of Korea	Methanogenic Recovery under Organic Overload using Starfish-Derived Powder as a Microreactor-Like Additive
ME261	Dr. Laura Tamayo University of Chile, Chile	Dynamic Interfacial Remodeling Governs Early Bacteria-Polymer Adhesion

End of Day 1 Conference

08:30 - 09:00 Onsite Registration & Seating Arrangement
09:00 - 09:30 Introduction & Open Ceremony

Keynote Presentation

09:30 - 09:55	Prof. Leszek A. Dobrzański Design & Production Asklepios, Poland	The 3xI 5.0 Industry Concept in the Context of the Role of Engineering Materials and the 6xE Principle
09:55 - 10:20	Prof. Lech B. Dobrzański Design & Production Asklepios, Poland	Advanced CAD/CAM Processes with Particular Emphasis on Ecological Aspects and the 6xR Principle as Applied to Dental Engineering

Refreshment & Coffee - 10:20 - 10:40

Keynote Presentation

10:40 - 11:05	Prof. Changguo Wang Harbin Institute of Technology, China	Thermal Nonreciprocity in Wrinkled Graphene
11:05 - 11:30	Prof. Zhengjun Zhang Tsinghua University, China	Surface-Enhanced Raman Scattering: Materials, Analysis and Applications
11:30 - 11:55	Dr. Yuhu Zhai Princeton Plasma Physics Laboratory, USA	Fusion Materials Needs to Mature Enabling Technologies for Energy and Science
11:55 - 12:20	Prof. Jiong Zhou Northeastern University, China	Macrocyclic Co-Crystal Materials

Memorable Group Photo & Tempting Buffet lunch - 12:20 - 13:05

Oral Presentation

13:05 - 13:25	Prof. Xie Quan Dalian University of Technology, China	Engineering Single-Atom Catalysts for Advanced Electro-Fenton Processes in Water Purification
13:25 - 13:45	Prof. Maria Giovanna Buonomenna Chemical Fundamentals of Technologies from MIUR, Italy	Nanostructured Polymer Membranes for Gas Separation
13:45 - 14:05	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 ₂
14:05 - 14:25	Prof. Marianne Noel Université Gustave Eiffel, France	Not Smallness but Complexity of Biological Systems". The Emergence of Supramolecular Chemistry at the University of Strasbourg (1961-2011).
14:25 - 14:45	Dr. Slavik Avagyan National Polytechnic University of Armenia, Armenia	On the Fact that Einstein's Theory is Unfounded
14:45 - 15:05	Prof. José Paulo Barbosa Mota NOVA University Lisbon, Portugal	Evaluation of Optimal Porous Nanomaterials for Low-Temperature, Vibration-Free Cryocoolers
15:05 - 15:25	Prof. Jiaxin Cai Xiamen University of Technology, China	Later Temporal Attention in Computer Aided Medical Diagnosis

Slots available

Slots available

End of Day 1 Conference

08:30 - 09:00 Introduction & Open Ceremony

Keynote Presentation

09:30 - 09:55	Prof. Tohru Higuchi Tokyo University of Science, Japan	Clean Energy Device Using Oxide Superionic Conductor Solid Electrolyte Thin Film
09:55 - 10:20	Prof. Show-An Chen National Tsing Hua University, Taiwan	Molecular Design on Semiconductive Polymers for Opto-Electronics Interconversion with High Device Performance

Refreshment & Coffee - 10:20 - 10:40

Keynote Presentation Cont.....

10:40 - 11:05	Prof. Stephen W Tsai Stanford University California, USA	Double-double: A Revolutionary Laminate Theory
11:05 - 11:30	Dr. Michael Zharnikov Heidelberg University, Germany	New Aspects of Electrostatic Engineering of Surfaces and Interfaces
11:30 - 11:55	Prof. Masahiro Miyauchi Institute of Science Tokyo, Japan	Semiconductor-Based Photocatalyst for Gas-Phase CO ₂ Reduction
11:55 - 12:20	Prof. Jacob Gavan Holon Institute of Technology, Israel	Power Beaming for Commercial Solar Energy and Defense Applications
12:20 - 12:45	Prof. Yukiharu Uraoka Nara Institute of Science and Technology, Japan	High Performance Metal Oxide Thin Film Transistor Using ALD Method
12:45 - 13:10	Prof. Andrea Lamberti Politecnico Di Torino, Italy	Electrochemistry at the Nanoscale: Powering Sustainable Energy Harvesting and Storage for Industrial Applications

Memorable Group Photo & Tempting Buffet lunch - 13:10 - 13:55

Oral Presentation

13:55 - 14:15	Mr. Eiki Masutomi Tokyo University of Science, Japan	Growth of Highly c-Axis Oriented Eu-Doped ZnO Thin Film and Its Next-Generation Semiconductor Device
14:15 - 14:35	Mr. Gunther Van Kerckhove OCSiAl Group, Luxembourg	Importance of Exposure Assessment Along Life Cycle of Nanocomposites
14:35 - 14:55	Ms. Inoue Honoka Tokyo University of Science, Japan	Surface Ionic Conduction of Ce _{0.85} Sm _{0.15} O _{2-δ} Thin Film with Oxygen Vacancies Prepared by RF Magnetron Sputtering
14:55 - 15:15	Prof. Karolina Kielbasa West Pomeranian University of Technology in Szczecin, Poland	Carbon Materials: Synthesis Pathways from Nonporous to Microporous Carbon Adsorbents Derived from Molasses for CO ₂ Removal Applications
15:15 - 15:35	Ms. Reina Fujita Tokyo University of Science, Japan	Electronic Structure and Electrical Properties of Orientation- Controlled Nb-Doped TiO ₂ Thin Films
15:35 - 16:55	Prof. Marc W. Bockrath Ohio State University, USA	Many-Body Phases in Multilayer Graphene: From Half-Integer Quantum Hall Effects to Magnetism

Refreshment & Coffee - 15:55 - 16:15

Oral Presentations Cont...

16:15 - 16:35	Dr. Masooma Ibrahim Karlsruhe Institute of Technology, Germany	From Structure to Function: Functional Polyoxometalate Systems for Advanced Applications
16:35 - 16:55	Prof. Iliana A Ivanova Sofia University St. Kliment Ohridski, Bulgaria	Optical, Photocatalytic, and Antibacterial Properties of Sol-Gel Derived Fe Doped SrTiO ₃ Powders

*****End of Day 2 Conference*****

08:30 - 09:00 Introduction & Open Ceremony

Keynote Presentation

09:30 - 09:55	Prof. Annie K. Powell Karlsruhe Institute of Technology (KIT), Germany	Involving Rare Earth Elements in Magnetic Materials
09:55 - 10:20	Prof. Cong Wang Beihang University, China	Strain Regulation of the Magnetic Structures and Properties in Antiperovskite Antiferromagnetic Mn ₃ XN(C) Compounds

Refreshment & Coffee - 10:20 - 10:40

Keynote Presentation Cont.....

10:40 - 11:05	Prof. Anelie Petrissans Université de Lorraine, France	Wood Torrefaction: an Innovative Production of Sustainable Material. Influencing Factors and Scale up from Laboratory to Industrial Process
11:05 - 11:30	Prof. Jiandong Guo Chinese Academy Of Sciences, China	Growth of Ultrathin CrxTey Films and Their Magnetism in the Two-Dimensional Limit
11:30 - 11:55	Prof. Tatiana E. Itina CNRS, Université Jean Monnet, France	From Ultrafast Laser Excitation to Functional Nanomaterials: Multiscale Insights

Oral Presentation

11:55- 12:15	Prof. Arezki Benfdila Mouloud Mammeri University Tizi-Ouzou, Algeria	3D Emerging Post CMOS Technology
12:15 - 12:35	Prof. Hicham Fakhry Ibn Tofail University, Morocco	Exploring the Adsorption Mechanism of Two New Organic Agents on Carbone steel: Electrochemical, Surface Investigations and Computational Insights
12:35 - 12:55	Prof. Kfir Ben-Harush Shamoon College of Engineering, Israel	Biomimetic Materials from Recombinant Nuclear Lamin Proteins: Extraordinary Toughness in Fibers and Films
12:55 -13:15	Dr. Fereshteh Sourani Erich Schmid Institute of Materials Science, Austria	Tailoring Structural and Mechanical Response of LPBF-Fabricated Zr-Based Bulk Metallic Glass through Adjustable Laser Beam Shaping

Slots available

Slots available

Memorable Group Photo & Tempting Buffet lunch - 13:15 - 14:00

Poster Presentation (14:00 - 15:20)

NBC262	Prof. Constantinos Sioutas University of Southern California, USA	Electrostatic Enhancement of the Collection Efficiency of Stainless-Steel Filters
NBC263	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
NBC264	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
NBC265	Ms. Chia-Hsuan Lin National Taiwan University, Taiwan	MOF-Derived Hollow Nanostructures for Regulating Sodium Deposition in Anode- Free Sodium Metal Batteries

ME262	Dr. Andrea Czompa Semmelweis University, Hungary	Propylene Carbonate as Green Solvent and Reagent
NBC266	Prof. Eduardo Manuel Cuerda Correa University of Extremadura, Spain	Tea Waste Valorization for Green Synthesis of Zero-Valent Iron Nanoparticles for Dye Removal from Water
NBC267	Dr. Lei Mu Xi'an Jiaotong University, China	ROS Responsive Conductive Microspheres Loaded with Salvianolic Acid B as Adipose Derived Stem Cell Carriers for Acute Myocardial Infarction Treatment
ME263	Mr. Sohum Uttamchandani Lynbrook High School, USA	Linking Crystal Structure, Critical Temperature, and Phase Synchronization in Superconductors

End of Day 2 Conference

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Materials Innovation 2027

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Berlin, Germany | 25–26 March 2027

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Bangkok, Thailand | 16–18 April 2027

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