

World Congress on

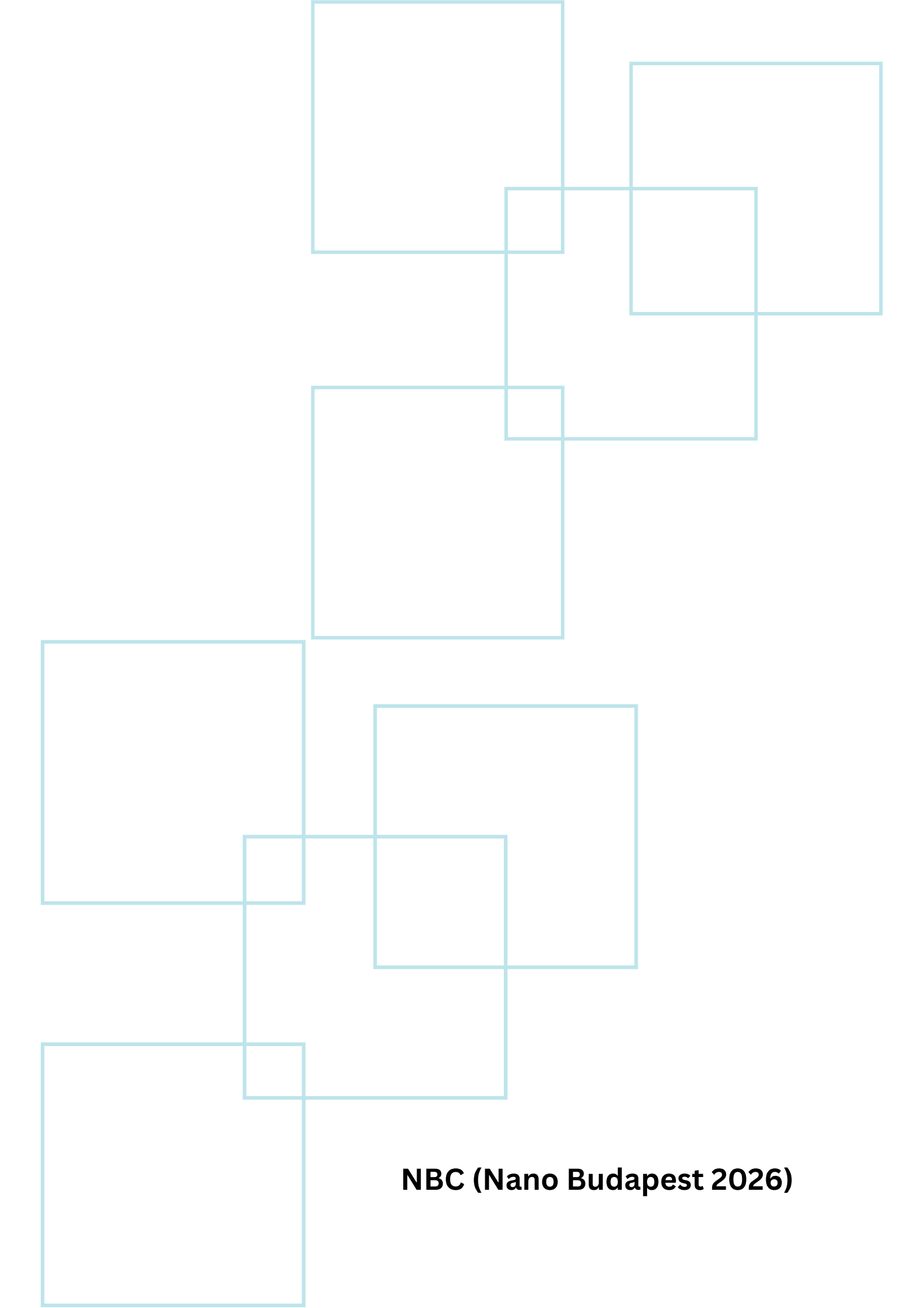
NANOTECHNOLOGY AND ADVANCED MATERIALS

Theme: “Advancing Nanomaterials Research for Future Technologies”

Dates: September 14 & 15, 2026 (In-person)

Venue: Movenpick Hotel Budapest Centre, Hungary



An abstract geometric pattern consisting of several overlapping squares of various sizes. The squares are outlined in a light blue color and are arranged in a way that creates a sense of depth and movement. The pattern is centered on the page and occupies most of the visual space.

NBC (Nano Budapest 2026)

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

Keynote Presentation

09:00 - 09:25	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
09:25 - 09:50	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
09:50 - 10:15	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 - 10:15 - 10:30

Keynote Presentation

10:30 - 10:55	Prof. Sibudjing Kawi National University of Singapore, Singapore	Sustainable Catalysis with Membrane or Plasma for Greenhouse Gas Valorization
10:55 - 11:20	Dr. Michael Zharnikov Heidelberg University, Germany	New Aspects of Electrostatic Engineering of Surfaces and Interfaces
11:20 - 11:45	Prof. Lev S. Rapoport Holon Institute of Technology, Israel	Crystal Plasticity of FCC Metals Under Steady-State and Instable Friction
11:45 - 12:10	Prof. Joseph H. Koo The University of Texas at Austin, USA	Novel Fiber-Reinforced Polysiloxane Composites for Extreme Aerospace Applications
12:10 - 12:35	Prof. Win-long Chia Fu Jen Catholic University, Taiwan	A Lifetime on Synthesis of Nitrogen- Containing Liquid Crystals in Taiwan

Oral Presentation

12:35 - 12:55	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
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Memorable Group Photo & Tempting Buffet lunch - 12:55 - 13:25

Keynote Presentation.

13:25 - 13:50	Prof. Mineo Hiramatsu Meijo University, Japan	Engineering Three-Dimensional Graphene Architectures by Plasma Processes for Advanced Carbon Materials
13:50 - 14:15	Prof. Natasha Lushetich University of Dundee, UK	On Energetic-Intelligent Materials and their Modes of Production

Oral Presentation

14:15 - 14:35	Assoc. Christl Lauterbach Future-Shape GmbH, Germany	A Smart Textile Underlay Providing a Large-Area Sensor Floor
14:35 - 14:55	Prof. Juan Casado University of Malaga, Spain	Photonic Materials from Chemical Design: Narrowband Emitters and Laser Dyes

14:55 - 15:15	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>
15:15 - 15:35	Prof. Bing Yan Guangzhou University, China	A Systematic Exploration of Structure-Bioactivity Relationship of Nanoparticles
15:35 - 15:55	Prof. Paddy French Delft University of Technology, The Netherlands	Silicon Carbide for Harsh Environments
15:55 - 16:15	Mr. Hector Georgy Freire Cabrera Escuela Politecnica Nacional, Ecuador	Conversion of Aluminum-Rich Industrial Wastes into High-Value Ceramic Materials and Aluminum Compounds
16:15 - 16:35	Dr. Hiroyuki Aoki Japan Atomic Energy Agency, Japan	Interface Engineering to Enhance Adhesion Strength in High Humidity
16:35 - 16:55	Prof. Maria Glushkova Rostov State Medical University, Russia	Systemic Blood Changes in Skin Hyperpigmentation. Correction Possibilities
Refreshment & Coffee - 16:55 - 17:10		
Oral Presentation Cont.....		
17:10 - 17:30	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
17:30 - 17:50	Prof. Michael A. Morris Trinity College Dublin, Ireland	Design, Synthesis and Use of Nanofluids for Advanced Heat Transfer Applications
Poster Presentation (17:50 - 18:10)		
NBC261	Dr. 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
ME262	Dr. Andrea Czompa Semmelweis University, Hungary	Propylene Carbonate as Green Solvent and Reagent
End of Day 1 Conference		

08:30 - 09:00 Introduction & Open Ceremony

Keynote Presentation

09:00 - 09:25	Prof. Tohru Higuchi Tokyo University of Science, Japan	Clean Energy Device Using Oxide Superionic Conductor Solid Electrolyte Thin Film
09:25 - 09:50	Dr. Héctor Hugo Pérez Garza DENSolutions BV, The Netherlands	Next-Generation Environmental In Situ System for Correlative Research Across TEM, SEM, and Synchrotrons
09:50 - 10:15	Prof. Yukiharu Uraoka Nara Institute of Science and Technology, Japan	High Performance Metal Oxide Thin Film Transistor Using ALD Method

Refreshment & Coffee - 10:15 - 10:30

Oral Presentation

10:30 - 10:50	Prof. Masatoshi Shimoda Toyota Technological Institute, Japan	Topology Optimization with Optimized Design Domain for Designing Biologically Derived Microstructures
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Keynote Presentation

10:50 - 11:15	Prof. Masahiro Miyauchi Institute of Science Tokyo, Japan	Semiconductor-Based Photocatalyst for Gas-Phase CO ₂ Reduction
11:15 - 11:40	Prof. Stephen W Tsai Stanford University California, USA	Double-double: A Revolutionary Laminate Theory
11:40 - 12:05	Prof. Bo-Qing Xu Tsinghua University, China	Precious Metal-Efficient Heterogeneous Catalysts for Thermal and Electro Catalysis
12:05 - 12:30	Prof. Bun Tsuchiya Meijo University, Japan	Hydrogen Absorption and Desorption Characteristics of Li _x CoO ₂ Positive Electrode Materials in Li ⁺ Ion Rechargeable Batteries
12:30 - 12:55	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 - 12:55 - 13:25

Keynote Presentation Cont.....

13:25 - 13:50	Prof. Jacob Gavan Holon Institute of Technology, Israel	Power Beaming for Commercial Solar Energy and Defense Applications
13:50 - 14:15	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
14:15 - 14:40	Dr. Sven Simon University of Stuttgart, Germany	The AI Revolution in Laboratory and Synchrotron X-ray Computed Tomography
14:40 - 15:05	Prof. Show-An Chen National Tsing Hua University, Taiwan	Molecular Design on Semiconductive Polymers for Opto-Electronics Interconversion with High Device Performance

Oral Presentation

15:05 - 15:25	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
15:25 - 15:45	Mr. Gunther Van Kerckhove OCSiAl Group, Luxembourg	Importance of Exposure Assessment Along Life Cycle of Nanocomposites

15:45 - 16:05	Ms. Inoue Honoka Tokyo University of Science, Japan	Surface Ionic Conduction of $\text{Ce}_{0.85}\text{Sm}_{0.15}\text{O}_{2-\delta}$ Thin Film with Oxygen Vacancies Prepared by RF Magnetron Sputtering
16:05 - 16:25	Ms. Reina Fujita Tokyo University of Science, Japan	Electronic Structure and Electrical Properties of Orientation- Controlled Nb-Doped TiO_2 Thin Films
16:25 - 16:45	Prof. Marc W. Bockrath Ohio State University, USA	Many-Body Phases in Multilayer Graphene: From Half-Integer Quantum Hall Effects to Magnetism

Refreshment & Coffee - 16:45 - 17:00

Oral Presentation Cont.....

17:00 - 17:20	Dr. Masooma Ibrahim Karlsruhe Institute of Technology, Germany	From Structure to Function: Functional Polyoxometalate Systems for Advanced Applications
17:20 - 17:40	Prof. Jiandong Guo Chinese Academy of Sciences, China	Growth of Ultrathin Cr_xTe_y Films and Their Magnetism in the Two-Dimensional Limit
17:40 - 18:00	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)
18:00 - 18:20	Dr. Huseyin Karaca Inonu University, Türkiye	Synthesis of DME in a Fixed-Packed-Bed Reactor Using Dual-Function $\text{Cu}_2\text{O}/\text{ZnO}$ and $\text{Cu}_2\text{O}/\text{ZnO}/\gamma\text{-Al}_2\text{O}_3$ Catalysts

End of Day 2 Conference

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