

International Conference on

SMART MATERIALS, ENERGY MATERIALS & STRUCTURE

June 15-16, 2026 (In-Person)

Venue: Fairfield by Marriott Bali Legian, Bali

Theme: “Integrating Smart Materials
& Energy Technologies for Tomorrow’s
World”

09:00 - 09:30 Onsite Registration & Seating Arrangement
09:30 - 10:00 Introduction & Open Ceremony

Plenary Presentation

10:00 - 10:30	Prof. Md Mainul Islam University of Southern Queensland, Australia	Sustainable Macadamia Nutshell-Based Particulate Composites: Unlocking Mechanical Performance and Structural Application Potential
10:30 - 11:00	Prof. Koji Matsuoka Saitama University, Japan	Synthetic Assembly of a Series of Glycopolymers for Evaluations of Lectin–Carbohydrate Interactions

11:00- 11:20 Refreshment and coffee

Keynote Presentation

11:20 - 11:45	Prof. Dr Thomas Walther Schmidt (Ms. Qingyu Yang) Huafeng New Material Co, Ltd., China	Sustainable HAPTIC 3D Textile Coatings
11:45 - 12:10	Prof. Leelakrishna Reddy University of Johannesburg, South Africa	Optimized UV-B and UV-A Emission in BaB ₈ O ₁₃ Compounds: Tailoring Gd ³⁺ Doping With Pb ²⁺ , Ce ³⁺ , and Pr ³⁺ for Phototherapy Applications
12:10 - 12:35	Prof. Elisabeth Djurado University Grenoble Alpes, France	Innovative Nanostructured Oxygen Electrodes for Solid Oxide Cells
12:35 - 13:00	Professor Ir. Ts. Dr. Hamidah Mohd Saman Universiti Teknologi MARA (UiTM), Selangor, Malaysia	Fire Resistance of Composite Insulated Strengthened Carbon Fibre Reinforced Polymer (CFRP) Reinforced Concrete (RC) Column

Memorable Group Photo & Selfie

13:00 - 13:45 Tempting Buffet Lunch & Photo Session

Oral Presentation

13:45 - 14:05	Dr Eva Scholtzova Slovak Academy of Sciences, Slovakia	Small Pollutants Adsorbed by Defective Graphene
14:05 - 14:25	Prof. Tao Yi Donghua University, China	Activatable Nano Systems for Diagnosis and Treatment
14:25 - 14:45	Dr. Yongsheng Chen Nankai University, China	High Performance OPV Molecules and Devices
14:45 - 15:05	Prof. Kimihisa Yamamoto Institute of Science Tokyo, Japan	Synthesis of Multi-metallic Nanoparticles Using a Dendrimer Reactor

Slots available

15:05 - 15:25 Refreshment and coffee

Oral Presentation

15:25 - 15:45	Prof. Valeri Barsegov University of Massachusetts, USA	Dynamic Force Spectroscopy in Silico: Exploring Strength, Deformability, Toughness and Mechanical Fatigue of Biological Nanoparticles
15:45 - 16:05	Dr. Aleksandra Lobnik University of Maribor, Slovenia	Nano Based Sensors
16:05 - 16:25	Dr. Mohammad A Obeid Ras Alkhaimah, UAE	Lipid Nanoparticles Formulations: from Bench Scale to Industrial Scale
16:25 - 16:45	Prof. Katarzyna Falkowicz Lublin University of Technology, Poland	Thermo-Mechanical Stability Analysis of Thin-Walled Composite Profiles With Selected Mechanical Couplings

*****End of Day 1 Conference*****

09:30 - 10:00 Onsite Registration & Seating Arrangement

Plenary Presentation

10:00 - 10:30	Prof. Olivier Bonnaud University of Rennes, France	The Need for Innovation in Nanotechnology Training to Meet The Future Energy and Sustainability Challenges of The Digital World.
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Keynote Presentation

10:30 - 10:55	Dr.Xing-Jie Liang National Center for Nanoscience and Technology of China, China	Nano Pharmaceutical Drug Carriers for Controllable Delivery and Release In Vivo
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10:55 - 11:15 Refreshment and coffee

Keynote Presentation Cont.....

11:15 - 11:40	Prof. Tyson York Winarski Arizona State University, USA	Strategic Protection of Nanotechnology with Intellectual Property
11:40 - 12:05	Dr. Atsushi Kajiwara, Nara University of Education, Japan	Clarification of Elementary Processes of Radical Polymerizations using Electron Spin Resonance (ESR/EPR) Spectroscopy in Various Media
12:05 - 12:30	Prof. Isabel Gouveia University of Beira Interior, Portugal	From Fossil to Biobased Nanofibers: The Role of Circular Bioeconomy in Transforming the Textile industry
12:30 - 12:55	Prof. Annie K. Powell Karlsruhe Institute of Technology (KIT), Germany	The Power, Beauty and Magic of Coordination Clusters for the Development of Materials Science

Memorable Group Photo & Selfie

12:55 - 13:40 Tempting Buffet Lunch & Photo Session

Oral Presentation

13:40 - 14:00	Prof. Martin Bolduc Université du Québec à Trois-Rivières, Québec, Canada	Photonic Processing for Flexible Hybrid Electronics (FHE)
14:00 - 14:20	Prof. Masahiro Furuya Waseda University, Japan	From Industrial Disaster to Material Processing - Control Technology of Vapor Film
14:20 - 14:40	Prof. Maria Giovanna Buonomenna Ministero dell'Istruzione e della Ricerca Scientifica (MIUR), Italy	Nanostructured Polymer Membranes for Gas Separation
14:40 - 15:00	Mr. M Qasim Khan Aligarh Muslim University, India	Selective Delivery Employing Targeted Multifunctional Nanoparticles: Potential as a Possible Prophylactic Tool in Management of Fibrosarcoma in Model Animals
15:00 - 15:20	Prof. Giada Gasparini University of Bologna, Italy	Innovation in Structural Design Through Metal 3D Printed Lattice Elements

MM01	Prof. Hubert Debski Lublin University of Technology, Poland	Numerical and Experimental Study of the Stability and Load-Carrying Capacity of the Compressed Composite Profiles With Closed Cross-Sections
MM02	Prof. Pawel Wysmulski Lublin University of Technology, Poland	Influence of Central Hole on the Buckling and Post-Buckling Response of CFRP Laminate
MM03	Dr. Laura Floroian Transilvania University of Brasov, Romania	Functionalized Antimicrobial Films Based on Antibiotic Imbedded in Bioactive Glass Matrix for Implants Coating
PV01	Dr. Bhavika Bhatia Shiv Nadar Institution of Eminence, India	Energy-Efficient and Scalable Benzoxazine Polymeric Platform for Photocatalytic Hydrogen Peroxide Generation
PV02	Ms. Viranchika Bijalwan University of Petroleum and Energy Studies (UPES), Dehradun, India	Bio-Based Thiol-Acrylate Vitrimers For Light-Based 3D Printing of Soft Active Materials
MM04	Prof. Dae-Woon Jeong Changwon National University, Korea	Pore-Engineered Ni/Al ₂ O ₃ Catalysts for High-Performance CO ₂ Reforming
MM05	Ms. Hamna Jameel Aligarh Muslim University, India	Plant Extract Mediated Bio-Fabrication of Chromium-Manganese Nanocomposite and its Anti-Biofilm Potential Against Some Important Bacteria
MM06	Dr. Swaleha Zubair Aligarh Muslim University, India	Amphotericin B Nano-Assemblies Circumvent Intrinsic Toxicity and Ensure Superior Protection in Experimental Visceral Leishmaniasis with Feeble Toxic Manifestation

End of Day 2 Conference

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