

2nd World Conference on

ADVANCED MATERIALS AND ENGINEERING

THEME:

“INNOVATIONS AT THE
FRONTIER OF MATERIALS
SCIENCE AND ENGINEERING”

Dates:

December 07 & 08, 2026 (In-Person)

December 09, 2026 (Virtual Via Zoom Platform)

Venue:

The Oceanic Sportel Phuket, Thailand



Tentative Agenda

Introduction & Opening Ceremony

Last Updated on 21st August 2026

Plenary Presentation

Marc Jean Mdard ABADIE	<i>Institute Charles Gerhardt Montpellier, France</i>	Innovation of Engineering Composites in Aerospace. Do Nanocomposites Have a Role to Play? Why and Where They Matter?
ZHANG Liangchi	<i>Southern University of Science and Technology, China</i>	Nano-Plasticity of Fused Silica: Challenges and Solutions
Chi-Ping Li	<i>National United University, Taiwan</i>	Ultrasonic Spray Deposition of Tungsten Oxide/Graphene Supercapacitor
Masahiro Yoshimura	<i>Tokyo Institute of Technology, Japan</i>	Importance of Soft, Solution Processing (=Low Energy Production) for Advanced Nano-Materials for Sustainable Society?
Chu Yen-Ho	<i>National Chung Cheng University, Taiwan</i>	Advanced Ionic Liquid Materials
Zeev Gross	<i>Technion-Israel Institute of Technology, Israel</i>	Electropolymerization of Corrole-chelated Cobalt-Carbene and its Utility for Water Oxidation Catalysis

Keynote Presentation

Marietjie Schutte-Smith	<i>University of the Free State, South Africa</i>	Endocrine-Disrupting Chemicals in Everyday Hygiene Products: A Sustainability Challenge
Alla Zak	<i>Holon Institute of Technology, Israel</i>	WS2 & MoS2 from 3D to 1D structures: Curvature and Chirality Induced Properties of Nanotubes
Lucie Bačáková	<i>Institute of Physiology of the Czech Academy of Sciences, Czech Republic</i>	Nanomaterials for Tissue Engineering, Wound Healing and Body Implants Coating
DJURADO Elisabeth	<i>University Grenoble Alpes, France</i>	Nanomaterials for Green Energy
Hendrik C. Swart	<i>University of the Free State, South Africa</i>	The Use of Surface Characterization Techniques in Phosphor Materials
Mark R. Hoffmann	<i>University of North Dakota, United States</i>	An In-Medium Symmetry Renormalization Group Approach for Atoms
Dr. Yousef Alqahs Alanezi	<i>College of Technological Studies, Kuwait</i>	Enhancement of Thermal Conductivity and Heat Transfer Coefficients Using Different Nanofluids for Thermal Process Applications
Tetsuya Yamamoto	<i>Kochi University of Technology, Japan</i>	Beyond Thickness Dependencies: Scalable Structural Engineering and Transport Physics of Advanced Transparent Conductive Films

Xuan Zhan	<i>Guangdong Technion Israel Institute of Technology, China</i>	Novel Organic-Inorganic Composites for Advanced Photocatalysis
Albin Kaelin	<i>CEO, epeaswitzerland gmbh, Switzerland</i>	Cradle to Cradle Design Innovations
Davor Margetic	<i>Ruđer Bošković Institute, Zagreb, Croatia</i>	Mechanochemical Synthesis of Guanidine-functionalised Fullerenes
Prof. M A Morris	<i>Trinity College Dublin, Ireland</i>	Nanofluids for Heat Transfer
Prasad Yarlagadda	<i>University of Southern Queensland, Australia</i>	From 2D to 3D: Translating Nanoscale Surface Engineering to 3D-Printed Orthopaedic Implants
Lori D. Coombs	<i>Embry-Riddle Aeronautical University (ERAU), USA</i>	Agentic AI, Machine Learning, Digital Twins, and Emerging Technologies for Intelligent Materials Science: Accelerating Discovery, Qualification, and Mission Assurance for Aerospace, Defense, and Space Systems
Yeampon Nakaramontri	<i>King Mongkut's University of Technology Thonburi, Thailand</i>	Multifunctional Conductive Rubber with Integrated Sensing and Antibacterial Functions for Next-Generation Flexible Electronics
Zahir Sayyed	<i>Vmware, US</i>	Development of a Simulator to Mimic VMware vCloud Director (VCD) API Calls for Cloud Orchestration
Zuriati Ahmad Zukarnain	<i>Universiti Putra, Malaysia</i>	QNN-Driven Secure Communication for CV-QKD in NextG Networks
Milos Janecek	<i>Charles University, Prague, Czech Republic</i>	Phase Transformations in Ti15Mo Alloy
Dr. Shuxin Li	<i>Wuhan University of Technology, China</i>	Reducing Environmental Impact in Hydrogen Storage Through Advanced Composite Recycling Strategies
Haiwen Luo	<i>University of Science and Technology Beijing, China</i>	Decoupling Interfacial Conductivity and Corrosion Resistance via Ru-Induced Passive-Film Reconstruction in Ferritic Stainless Steel
Jannatun Zia	<i>SR University, India</i>	Visible-Light-Active V₂O₅/Polypyrrole Nanocomposites for Efficient Hydrogen Evolution and Pollutant Degradation
Rosiah Rohani	<i>Universiti Kebangsaan, Malaysia</i>	Green Bio-Activated Metal Oxide Nanomaterials: Sustainable Design, Intelligent Interfaces, and Translational Pathways for Antimicrobial and Biomedical Applications
VLADIMIR G. CHIGRINOV	<i>Hong Kong University of Science and Technology, Hong Kong</i>	Photoaligned Azodye Nanolayers: New Trends for Liquid Crystal Devices

Giada Gasparini	<i>DICAM - University of Bologna, Italy</i>	Innovation in Structural Design Through Metal 3D Printed Lattice Elements
Yeong Maw Hwang	<i>National Sun Yat-sen University, Taiwan</i>	Tube Hydroforming of Metal Tubes
Oral Presentation		
Chiaki Terashima	<i>Tokyo University of Science, Japan</i>	Defect-Engineered Titanium Dioxide Photocatalysts via In-Liquid Plasma for Environmental Remediation
Su-Huai Wei	<i>Eastern Institute of Technology, China</i>	First Principles Design of Materials for Energy and Optoelectronic Device Applications
Helio Chacham	<i>Federal University of Minas Gerais, Brazil</i>	Effects of Doping and Ambient Exposure on 2D Transition Metal Chalcogenides: Humidity Sensing and Valleytronics
Eugene Mananga	<i>The City University of New York, USA</i>	Electrochemical Transformations of 2-propanol in Aqueous Solutions Using the COSMO Solvation Model
Frank Mücklich	<i>Saarland University, Germany</i>	New Surfaces, - 'Without' Chemistry? Bioinspired Microtopographic Material Surfaces – and also, Why We Sent Them into Space
Dr. Snezana Lazic Knezevic	<i>Universidad Autónoma de Madrid, Spain</i>	Cost-Efficient Deterministic Strain Engineering of Quantum Emitters in Two Dimensional Semiconductors
Jun Fang	<i>Sojo University, Japan</i>	Polymeric Nanodelivery System for Carbon Monoxide in Inflammation and Cancer Therapy
Ahmet Haxhiaj	<i>University of Mitrovca, Kosovo</i>	Environment Management and Advancing Technological Processes for Technical Lead Production
Raafat A Abdeldayem	<i>Mansoura University, Egypt</i>	Preliminary Date of Ground Water Characteristics and Related Disease Risk
Liana Lucchetti	<i>Università Politecnica delle Marche, Italy</i>	Optical Poling of Ferroelectric Liquids
Mrs. Karin Immenroth	<i>Mediaplus Germany GmbH & Co Kg, Germany</i>	AI-Driven Transformation in Global Media: Building a Modular Data & Intelligence Ecosystem
Marek Wiśniewski	<i>Nicolaus Copernicus University, Poland</i>	From Hydrated Colloids to Ordered Carbon Films: Self-Assembly of N-Doped Carbon Quantum Dots
Julia Moszczyńska	<i>Nicolaus Copernicus University, Poland</i>	Application of Non-Temperature Plasma as a Medium for Catalytic Processes Involving Advanced Functional Materials

Abdelmjid Bouazizi *Moulay Ismail University of
Meknès, Morocco*

**Towards Sustainable Nanofiltration
Membrane Technologies through the
Valorization of Moroccan Geomaterials and
Nanomaterials for Advanced Water
Treatment**

Aysel Güven *Başkent University, Türkiye*

**Effect of Naringin on Small Intestinal
Anastomotic Healing in Rats Subjected to
Lower Extremity Ischemia-Reperfusion
Injury**

Richard J. Spontak *North Carolina State University,
USA*

**Advancing the Functional Versatility of Self-
Networking Polymers**

**Kyriakos
Komvopoulos** *University of California, Berkeley,
USA*

**Amorphous Carbon at the Nanoscale: A Key
Material for Future Magnetic Recording
Media**

Pradip Majumdar *Illinois Institute of Technology,
USA*

**Review of Challenges and Advancements in
the Development of Nano-Structured
Composites as High-Performance Electrode
Materials for Lithium -Ion Batteries**

Mavis Sika Okyere *Ghana National Gas Limited
Company, Ghana*

**Quantum-Engineered Nano-Coatings for
Hydrogen-Ready Pipelines: CFD-Guided
Adaptive Self-Healing Strategies Against
Corrosion and Embrittlement.**

Osman Adiguzel *Firat University, Turkey*

**Shape Memory Phenomena and
Crystallographic Basis of Reversibility in
Shape Memory Alloys**

*****Slots Available*****

*****Slots Available*****

*****Slots Available*****

Poster Presentation

Peyman Ezzati *ERA Co.Ltd, China*

**AI-driven Design of Sustainable
Nanostructured Polymer Systems: Toward
next Generation Green Nanocomposites**

Z. Kovziridze *Georgian Technical University,
Georgia*

**FAILURE STRESS ENERGY
FORMULA**

*****End of the Conference*****



**Dubai Silicon Oasis, DDP,
Building A1, Dubai, United
Arab Emirates**

Telephone : +971 (55) 603-8589

