

**VENUE:**

THE OCEANIC SPORTEL  
PHUKET, THAILAND

International Conference on

# ADVANCED NANOMATERIALS AND NANOTECHNOLOGY

Theme:

“From Nano to Global Impact:  
Transforming Science and Technology”

Dates:

December 07 & 08, 2026 (In-Person)

December 09, 2026 (Virtual Via Zoom Platform)

# Tentative Agenda

## Introduction & Opening Ceremony

Last Updated on 21<sup>st</sup> August 2026

## Plenary Presentation

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

## Keynote Presentation

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

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| <b>Xuan Zhan</b>               | <i>Guangdong Technion Israel Institute of Technology, China</i>   | <b>Novel Organic-Inorganic Composites for Advanced Photocatalysis</b>                                                                                                                                                   |
| <b>Albin Kaelin</b>            | <i>CEO, epeaswitzerland gmbh, Switzerland</i>                     | <b>Cradle to Cradle Design Innovations</b>                                                                                                                                                                              |
| <b>Davor Margetic</b>          | <i>Ruđer Bošković Institute, Zagreb, Croatia</i>                  | <b>Mechanochemical Synthesis of Guanidine-functionalised Fullerenes</b>                                                                                                                                                 |
| <b>Prof. M A Morris</b>        | <i>Trinity College Dublin, Ireland</i>                            | <b>Nanofluids for Heat Transfer</b>                                                                                                                                                                                     |
| <b>Prasad Yarlagadda</b>       | <i>University of Southern Queensland, Australia</i>               | <b>From 2D to 3D: Translating Nanoscale Surface Engineering to 3D-Printed Orthopaedic Implants</b>                                                                                                                      |
| <b>Lori D. Coombs</b>          | <i>Embry-Riddle Aeronautical University (ERAU), USA</i>           | <b>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</b> |
| <b>Yeampon Nakaramontri</b>    | <i>King Mongkut's University of Technology Thonburi, Thailand</i> | <b>Multifunctional Conductive Rubber with Integrated Sensing and Antibacterial Functions for Next-Generation Flexible Electronics</b>                                                                                   |
| <b>Zahir Sayyed</b>            | <i>Vmware, US</i>                                                 | <b>Development of a Simulator to Mimic VMware vCloud Director (VCD) API Calls for Cloud Orchestration</b>                                                                                                               |
| <b>Zuriati Ahmad Zukarnain</b> | <i>Universiti Putra, Malaysia</i>                                 | <b>QNN-Driven Secure Communication for CV-QKD in NextG Networks</b>                                                                                                                                                     |
| <b>Milos Janecek</b>           | <i>Charles University, Prague, Czech Republic</i>                 | <b>Phase Transformations in Ti15Mo Alloy</b>                                                                                                                                                                            |
| <b>Dr. Shuxin Li</b>           | <i>Wuhan University of Technology, China</i>                      | <b>Reducing Environmental Impact in Hydrogen Storage Through Advanced Composite Recycling Strategies</b>                                                                                                                |
| <b>Haiwen Luo</b>              | <i>University of Science and Technology Beijing, China</i>        | <b>Decoupling Interfacial Conductivity and Corrosion Resistance via Ru-Induced Passive-Film Reconstruction in Ferritic Stainless Steel</b>                                                                              |
| <b>Jannatun Zia</b>            | <i>SR University, India</i>                                       | <b>Visible-Light-Active V<sub>2</sub>O<sub>5</sub>/Polypyrrole Nanocomposites for Efficient Hydrogen Evolution and Pollutant Degradation</b>                                                                            |
| <b>Rosiah Rohani</b>           | <i>Universiti Kebangsaan, Malaysia</i>                            | <b>Green Bio-Activated Metal Oxide Nanomaterials: Sustainable Design, Intelligent Interfaces, and Translational Pathways for Antimicrobial and Biomedical Applications</b>                                              |
| <b>VLADIMIR G. CHIGRINOV</b>   | <i>Hong Kong University of Science and Technology, Hong Kong</i>  | <b>Photoaligned Azodye Nanolayers: New Trends for Liquid Crystal Devices</b>                                                                                                                                            |

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

**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**

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**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\*\*\***



**11 Waldeck Road, Luton,  
England, LU1 1HG**

**Tel: +44 (772)-355-2714**  
**[support@pagicle.com](mailto:support@pagicle.com)**

