

**3rd World Summit on Materials Science and Nanoscience
(#MSNS2026)**

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**Global Renewable & Sustainable Energy Meet
(RSE2026)**

October 22-25, 2026 | Venice, Italy



Science Wide

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SCAN TO VISIT VENUE

09:00 to 09:15	Registrations and Badge Pickup
09:15 to 09:30	Opening Ceremony and Welcome Remarks

Moderator: **Miguel Angel Delgado Molina**, Isotrol, Spain

09:30 to 10:10 P	Thomas J Webster , Brown University, USA / Hebei University of Technology, China. Title: Eliminating Implant Infection: 45,000 Patients and Still Counting
10:10 to 10:50 P	Punit Boolchand , University of Cincinnati, USA. Title: Molecular Origin of Topological Phases, Melt Fragility Index, and Glass Forming Tendency in Chalcogenide glasses

10:50 to 11:05	Networking and Coffee Break
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11:05 to 11:45 P	Arkadii Arinstein , Technion – Israel Institute of Technology, Israel. Title: Nano vs macro: small size does matter Presentation
11:45 to 12:25 P	David Díaz Díaz , Instituto Universitario de Bio-Orgánica Antonio González (IUBO-AG), Universidad de La Laguna, Spain. Title: Viscoelastic and Porous Architectures as Enabling Platforms
12:25 to 13:05 P	Mariusz Barczak , Maria Curie-Skłodowska University, Poland. Title: Nanoporous carbon textiles: tuning porosity and surface chemistry for versatile applications

13:05 to 14:00	Group Photograph Followed by Lunch
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14:00 to 14:40 P	Borja Sepulveda , Instituto de Microelectronica de Barcelona (IMB-CNM, CSIC), Spain. Title: Controlling nanotherapies, cells and chemical reactions with photonic/magnetic nanosystems
14:40 to 15:20 P	Lin Geng , Harbin Institute of Technology, China. Title: Fabrication and Mechanical Properties of TiBw/Ti composites
15:20 to 15:55 K	Kazuhiro OGAWA , Fracture and Reliability Research Institute / Tohoku University, Japan. Title: Cold Spray Beyond Metals: Engineering Ceramic-on-Metal and Metal-on-Ceramic Interfaces for Next-Generation Materials Systems
15:55 to 16:30 K	Jun Onoe , Nagoya University, Japan. Title: High thermoelectric performance of $C_{60}/(MoO_3)_n$ nanocomposite films

16:30 to 16:45	Networking and Coffee Break
16:45 to 17:20 K	Alokesh Pramanik , Curtin University, Australia. Title: Navigating the Edge of Excellence: Non-Traditional Machining of Ti-6Al-4V Titanium alloy
17:20 to 17:55 K	Uta Klement , Chalmers University of Technology, Sweden. Title: The development of white layers in martensitic steels after hard turning
17:55 to 18:15 I	Aomar Hadjadj , University of Reims Champagne-Ardenne, France. Title: ZnO-based nanocomposite thin films for solar-driven photocatalytic water purification
18:15 to 18:35 I	Alexander Axelevitch , Holon Institute of Technology (HIT), Israel. Title: Preparation of Copper Oxide Thin Films and Investigation of their Semiconductor Properties
END OF THE DAY 1	

DAY – 2

OCTOBER 23, 2026 | FRIDAY
Meeting Room: Firenze

Moderator: Miguel Angel Delgado Molina , Isotrol, Spain	
09:30 to 10:10 P	Muftah H El Naas , Qatar University, Qatar. Title: From CO ₂ to Carbonates: The Role of Mineralization in Sustainable Carbon Management
10:10 to 10:50 P	Philippe Knauth , Aix-Marseille University, France. Title: Advances in Carbonaceous Electrocatalysts for Oxygen, Hydrogen, Carbon Dioxide, and Nitrogen Reduction
10:50 to 11:05	Networking and Coffee Break
11:05 to 11:40 K	Aghaei Mohammadreza , Norwegian University of Science and Technology (NTNU), Norway University of Freiburg, Germany. Title: From Sunlight to Sustainability: The Prospects of Solar photovoltaics for Energy Transition

11:40 to 12:15 K	Maria Luisa Di Vona , University of Rome Tor Vergata, Italy. Title: Designing Sustainable Ion-Conducting Materials for Electrochemical Energy: From Renewable Lignin to Fluorine-Free Ionomers
12:15 to 12:50 K	Jacob Eapen , NC State University, USA. Title: Phonon Modes and Thermal Transport at Molten Salt-Graphite Interface
12:50 to 13:25 K	Valentina Busini , Politecnico di Milano, Italy. Title: Hydrogen: a great energy carrier with some drawbacks
13:25 to 14:15	Group Photograph Followed by Lunch
14:15 to 14:35 I	Pamela Fann , Founder & CEO, Integrated Solutions, United States Title: Transformational Energy Projects: Empathy-Driven Solutions for Vulnerable Communities and a Universal Pathway to Accelerate the Energy Transition
14:35 to 14:55 I	Lauretta Rubino , VERT Association, Switzerland. Title: The VERT GPF retrofit program and NPTI within the Horizon AeroSolfd project
14:55 to 15:15 I	Gahyeon Lee , Korea Institute of Energy Technology (KENTECH), South Korea. Title: Proposal for a Hydropower-based Liquid Hydrogen Import Roadmap to Reduce Levelized Cost of Hydrogen
15:15 to 15:35 I	Seona Lee , Korea Institute of Energy Technology (KENTECH), South Korea. Title: Integrated POx-Based Blue Hydrogen Process Using LNG Cold Energy in Air Separation Unit and LH ₂ Cold Energy for CO ₂ Liquefaction
15:35 to 15:55 I	Miguel Angel Delgado Molina , Isotrol, Spain. Title: Enhancing energy availability based on explainable two-level clustering for root-cause diagnosis of production loss events in wind farms
15:55 to 16:15	Poster Sessions
Poster - 1	Magdalena Valentina Lungu, Ioana Ion, and Sergiu Ivaşcu , National Institute for Research and Development in Electrical Engineering ICPE- CA Bucharest, Romania. Title: Effect of Substrate Material on Electrosark Deposited Ag-W-Based Coatings
Poster - 2	Ali Ashraf Joolaei , Inha University, South Korea. Title: High organic loading treatment of liquified PLA-containing wastewater in an electrical voltage-applied UASB reactor
16:15 to 16:35	Closing Ceremony & End of the Physical Conference (Coffee/ Tea Break)

Moderator: **Hüseyin Aydin**, Batman University, Türkiye

09:00 to 09:40 P	Tai-Shung Chung Neal , Department of Materials Science and Engineering, NTUST, Taiwan. Title: Polymeric Membranes for H2 Purification and CO2 Capture from Flue Gas
09:40 to 10:20 P	Tokeer Ahmad , Jamia Millia Islamia, New Delhi, India. Title: Multifunctional Heterogeneous Catalysis for Sustainable H2 Energy using Multinary Advanced Nanostructures
10:20 to 11:00 P	Paulo César De Moraes , Catholic University of Brasília, Brazil. Title: Manipulating graphene-based nanocomposites for application in radiofrequency therapy
11:00 to 11:40 P	Tohru Higuchi , Tokyo University of Science, Japan. Title: Clean Energy and AI Device Using Superionic Conductor Solid Electrolyte Thin Film
11:40 to 12:20 P	Ilaria Cacciotti , Department of Engineering, INSTM RU, University Niccolò Cusano, Italy. Title: Sustainable Functionalization of Biopolymeric Systems for Biomedical and Food Applications
12:20 to 12:40 P	Hiro Aoki , J-PARC Centre, Japan Atomic Energy Agency, Japan. Title: Impact of Nanometric Interface Structure on Adhesion Strength of Epoxy Adhesives
12:40 to 13:15 K	Cesare Oliviero Rossi , University of Calabria, Italy. Title: Multi-technique investigation of the anti-aging action induced by graphene in bitumen: physicochemical implications
13:15 to 13:50 K	Dai Yeun Jeong , Asia Climate Change Education Center, South Korea. Title: How to Overcome the Limitations Inherent in Sustainable Development
13:50 to 14:30 P	Sónia A C Carabineiro , Universidade NOVA de Lisboa, Portugal. Title: Composite materials based on oxides for catalytic reactions and for the removal of contaminants
14:30 to 14:50 I	A Guillermo Bracamonte , National University of Cordoba (UNC) Argentina, Argentina. Title: Tuning and Calibration of Silicon Nanophotonics platforms for Light Delivery: fundamental studies towards applications
14:50 to 15:10 I	Efstratios Kritikos , Department of Physics, University of Oxford, UK. Title: Electrostatically driven elongation of nanoclusters in weakly ionized plasmas

Moderator: **Hüseyin Aydin**, Batman University, Türkiye

09:00 to 09:35	Mikhailov Alexey , Financial University under the Government of the Russian Federation, Moscow, Russia.
K	Title: Effective waste management in service industry: Fuzzy-based modelling approach for strategic decision-making
09:35 to 10:15	Junhui Hu , Nanjing University of Aeronautics & Astronautics, China.
P	Title: Ultrasonic/Piezoelectric Methods to Enhance the Performance of Batteries
10:15 to 10:50	Huseyin Aydin , University of Batman, Turkey.
K	Title: Evaporative Cooling of PV Systems Employing Different Natural Porous Materials
10:50 to 11:25	Souheil El Alimi , National Engineering School of Monastir, Tunisia.
K	Title: Why Green Hydrogen Is Not a Sustainable Development Path for North Africa
11:25 to 12:00	Zahangir Alam , International Islamic University Malaysia, Malaysia.
K	Title: An integrated MEC-AD system with modified electrodes for high yield biogas production from food waste
12:00 to 12:35	Rachid Mrabet , National Institute of Agricultural Research - INRA, Morocco.
K	Title: Renewable Energy in the Water-Energy-Food-Ecosystems (WEFE) Nexus: A Systems Approach for Climate-Resilient Development
12:35 to 12:55	Frederic Kuznik , Insavaior - Insa Lyon/Cethil, France.
I	Title: Thermochemical Batteries for Sustainable Energy Management: The Paradigm Shift in Energy Transition
12:55 to 13:30	Aurelio Medina Rios , Michoacan University of San Nicolás de Hidalgo, Mexico.
K	Title: Feasibility Analysis for Offshore Wind Generation in México
13:30 to 14:05	Weidong Zhu , University of Maryland, Baltimore County, USA.
K	Title: A Novel Infinitely Variable Transmission for Tidal Energy Harvesting
14:05 to 14:45	Daniel Kammen , Johns Hopkins University, USA.
K	Title: Innovation for the Inclusive Clean Energy Transition
14:45 to 15:05	Anna Pinnarelli , University of Calabria, Italy.
I	Title: Multi-Layer Digital Twin for the Resilient Optimization of Multi-Energy and Multi-Sector Systems

15:05 to 15:45

P

Francisco Javier Perez Trujillo, Universidad Complutense De Madrid, Spain.

Title: Thermal Storage-Molten Salts Chemistry and High Temperature Corrosion Of Materials: Past, Present and Future

15:45 to 16:25

P

Nay Htun, Imperial College, London, UK.

Title: Energy Imperatives: Renewable, Sustainable, Resilient, Affordable---Towards Decarbonize

Closing Ceremony & End of the Virtual Conference

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NEXT EDITION

2nd Global Summit on

RENEWABLE AND SUSTAINABLE ENERGY

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————— *We look forward to welcoming you in* —————
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