SCIENCE WIDE
CONNECTING RESEARCHERS

FINAL PROGRAM

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

&

Global Renewable & Sustainable Energy Meet (RSE2026)

October 22-25, 2026 | Venice, Italy



Science Wide

14-363, Miryalaguda, Telangana, India.

contact@sciencewidemeetings.com

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SCAN TO VISIT VENUE

DAY – 1

OCTOBER 22, 2026 | THURSDAY

Meeting Room: Firenze

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
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-Sklodowska University, Poland. Title: Nanoporous carbon textiles: tuning porosity and surface chemistry for versatile applications
13:05 to 14:00	Group Photograph Followed by Lunch
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 in statute of Technology (HIT), Israel. Title: Preparation the Copper Oxide Thin Films and Investigation 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 Electrospark 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)**

DAY – 3

OCTOBER 24, 2026 | SATURDAY | VIRTUAL PRESENTATIONS

Italy Time Zone (GMT+2)

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 Morais**, 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) Argentine, Argentine. 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

DAY – 4

OCTOBER 25, 2026 | SUNDAY | VIRTUAL PRESENTATIONS

Italy Time Zone (GMT+2)

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

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

Closing Ceremony & End of the Virtual Conference



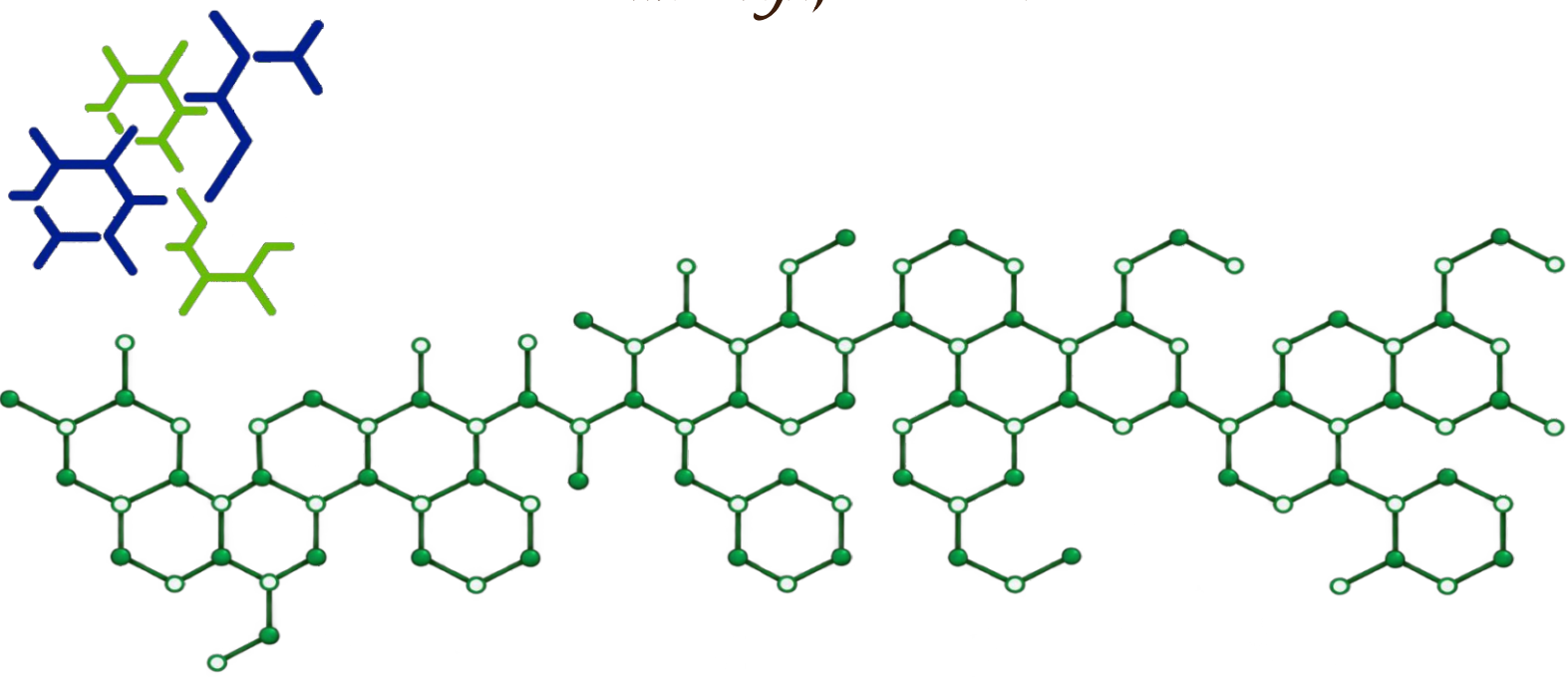
NEXT EDITION

4th World Summit on

MATERIALS SCIENCE AND NANOSCIENCE

October 18-20, 2027 | Edinburgh, UK

We look forward to welcoming you in Edinburgh, UK!



CONTACT US

SCIENCE WIDE

14-363, Miryalaguda, Telangana, India.

Phone: +91 944 042 4355

E-mail: contact@sciencewidemeetings.com