

# Materials Science Conference 2026



# SCIENTIFIC PROGRAM

## 9th International Conference on Materials Science & Engineering

July 10-11, 2026 | London, UK & Virtual (Hybrid)

**Delight Scientific Conferences**

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<https://materials.delightscientific.com/>

# SCIENTIFIC PROGRAM

Material Science Conference 2026  
July 10-11, 2026 at London, UK & Virtual (Hybrid)

**July 10-11, 2026**

**Opening Ceremony**

**TBA \* Time to be allotted soon**

## Keynote Speaker Session

TBA

**Dr. Jin Wook Kim**, Dept. of Optometry and Vision Science, Daegu Catholic University, Korea  
**Presentation Title:** Nanocellulose and Nanochitosan as Multifunctional Additives for Silicone Hydrogel Lenses

TBA

**Dr. A-Young Sung**, Dept. of Optometry and Vision Science, Daegu Catholic University, Korea  
**Presentation Title:** Nanocellulose and Nanochitosan as Multifunctional Additives for Silicone Hydrogel Lenses

TBA

**Dr. Yi yun jang**, Dept. of Optometry and Vision Science, Daegu Catholic University, Korea  
**Presentation Title:** Nanocellulose and Nanochitosan as Multifunctional Additives for Silicone Hydrogel Lenses

TBA

**Dr. Guliyeva Shahana**, Institute of Polymer Materials of the Ministry of Science and Education of the Republic of Azerbaijan, Azerbaijan  
**Presentation Title:** Synthesis and Study of the Properties of a Copolymer Based on 4,4'-Oxydiphenylbismaleimide and Allyl Salicylate

TBA

**Dr. Giora J Kidron**, Hebrew University of Jerusalem, Israel  
**Presentation Title:** Non-rainfall water, its distribution, effects and its link to natural substrates and building materials

TBA

**Dr. Rogério Navarro Correia de Siqueira**, Chemical and Materials Engineering Department, PUC-Rio, Rio de Janeiro, Brazil  
**Presentation Title:** Biobased materials for a greener future

TBA

**Dr. Lidia Elizabeth Verduzco Grajeda**, Direccion Academica de Negocios y Agricultura, Universidad Tecnologica del Norte de Aguascalientes, Mexico  
**Presentation Title:** Estimation of Water Balance and Nitrate Load in the Upper Basin of Aguascalientes, Mexico, Using SWAT

TBA

**Dr. Laura S. Acosta-Torres**, Universidad Nacional Autónoma de México (UNAM), Escuela Nacional de Estudios Superiores, Unidad León, Guanajuato, México.

**Presentation Title:** From green synthesis to in vivo evaluation of a translational PMMA/AgNP antifungal dental biomaterial

TBA

**Dr. Gwendolyn Davon Boyd-Shields**, Mississippi State University, USA

**Presentation Title:** NANOSTRUCTURED CHITOSAN DELIVERY SYSTEMS FOR ESSENTIAL OILS: A BIO-BASED STRATEGY TO FUNGAL DEGRADATION IN WOOD

TBA

**Dr. Ping Zhao**, Department of Mechanical and Industrial Engineering, University of Minnesota, USA

**Presentation Title:** Experimental and Machine Learning Assisted Design of Piezoelectric Energy Harvesters

TBA

**Dr. LIKIBI JOSS KLAUSNER**, School of Mechanical Engineering and Automation, Dalian Polytechnic University, China

**Presentation Title:** Enhancing rolling contact fatigue resistance of bearing steel through robust design under misalignment uncertainty

TBA

**Dr. Omar Abdulsahib Saleh**, Department of Physics, King Fahd University of Petroleum and Minerals, Saudi Arabia.

**Presentation Title:** Surface Passivation of Titanium Nitride Thin Films Using Self-Assembled Monolayers to Inhibit Oxide Formation

TBA

**Dr. Mohd Basyaruddin Abdul Rahman**, Universiti Putra Malaysia, Malaysia.

**Presentation Title:** Reticular Nanostructures for Targeted Delivery of Active Molecules in Biomedical and Environmental Treatments

TBA

**Mr. Aravindh Sadhanandham**, Senior Mechanical Engineer, Veeco Instruments Inc., San Jose, California, USA.

**Presentation Title:** Surface Engineering Considerations for Outgassing and Contamination Control in Non-Vacuum Semiconductor Environments

TBA

**Dr. Amish Roopesh**, SRM Institute of Science and Technology (SRMIST), India

**Presentation Title:** Thermal Analysis and Cooling System Design of a Linear Induction Motor for Hyperloop Applications

TBA

**Mr. Asefa Chekol Mekonen**, Institute of Physical Metallurgy, Metal Forming and Nanotechnology, University of Miskolc, Hungary

**Presentation Title:** Thermophysical Properties and Heat Transfer Performance of g-C<sub>3</sub>N<sub>4</sub> Nanofluids in Distilled Water-Ethylene Glycol Mixtures

TBA

**Mr. Julien Roemer**, Haute École d'Ingénierie et de Gestion du Canton de Vaud, Switzerland

**Presentation Title:** Energy Consumption, Decarbonization Pathways, and Renewable Energy Integration in the Mining Industry: A System-Level Review

TBA

**Dr. Jia-Shiang Chen**, Department of Materials Science and NanoEngineering, Rice University, USA  
**Presentation Title:** Emerging Nanomaterials Based on Low-Dimensional Nanostructures

TBA

**Dr. Carlos Medina-Ramos**, National University of Engineering, PERU  
**Presentation Title:** Advanced Control and Circular Economy in Phenolic Resole Synthesis: Integrating Volterra-Genocchi Modeling with High-Efficiency Vent Adsorption

TBA

**Dr. Laura Ștefania Păun**, Petroleum-Gas University of Ploiești, Romania.  
**Presentation Title:** Nanocrystalline Metal Oxides as Sustainable Shale Inhibitors for Advanced Water-Based Drilling Fluids

TBA

**Dr. Chaker Yassine**, Materials Chemistry and Applications Laboratory, Tissemsilt University, Algeria  
**Presentation Title:** 1,2-(Propanediol)-3-Methylimidazolium Chloride, Hydrogen Sulfate and dihydrogen phosphate Ionic Liquid: DFT, Structural and Dielectric Characterization

TBA

**Dr. Stuart Harper**, The University of Warwick, Coventry, UK  
**Presentation Title:** A Complex Problem-solving Approach to Design a Synthetic Self-healing Materials System

TBA

**Dr. Ualikhan Sadyk**, SDU University, Kazakhstan  
**Presentation Title:** Physicochemical and Ecotoxicological Characterization of Therapeutic Sulfide-Silt Peloids from Lake Maly Akkol

TBA

**Dr. Usha Nandhini Gunasekaran**, SRM Institute of Science and Technology, India  
**Presentation Title:** Investigation of Metal-Manipulated Fluorescence in sensing

TBA

**Dr. Mohneesh Kalwani**, Department of Biotechnology, Dr. Ghanshyam Singh P.G. College, India  
**Presentation Title:** Simultaneous Nutrient Uptake and Metabolite Production by *Chlorella sorokiniana* MSP1 Cultivated in Industrial Wastewater Using AI Tools.

TBA

**Dr. Pratik Kumar Jagtap**, The ICFAI University Raipur Chhattisgarh, India  
**Presentation Title:** A simple, rapid, and sensitive analytical method was developed for the determination of Sertraline

TBA

**Dr. Vivien Patricia Garbin**, Regenerative Medicine Laboratory "Carlos Augusto Camargo de Souza Baptista", Universidade de Marília (UNIMAR), Brazil.  
**Presentation Title:** Bacterial nanocellulose hydrogels as a next-generation bio-material for cardiac and vascular tissue engineering: structural, biological, and translational perspectives

TBA

**Dr. Mounira Beldi**, Laboratory of metal materials forming (LMF2M), Faculty of Technology, Badji Mokhtar University Annaba, Algeria  
**Presentation Title:** Microstructural Evolution and Tribological Behavior of Nanostructured Ti80Ni20 Alloy Prepared by Mechanical Alloying

TBA

**Dr. Hamed Namdar-Asl**, Faculty of Material Engineering, Sahand University of Technology, Iran  
**Presentation Title:** Improving the performance of reduced TiO<sub>2</sub> nanotubes in 90Ar -10H<sub>2</sub> atmosphere for electrocatalytic hydrogen production by decorating with copper species

TBA

**Dr. Mehar Un Nisa**, Government College University Faisalabad, Pakistan  
**Presentation Title:** Multifunctional hydrogel-based bilayer wound dressings composed of an immediate-release layer of ofloxacin and a sustained-release layer of bergamot oil

TBA

**Dr. Jawad**, Institut Teknologi Bandung, West Jawa, Indondeian.  
**Presentation Title:** Fabrication of 3D Bio-silica/PCL Scaffold for Enhancing Biocompatibility.

TBA

**Dr. Huang Xiaowei**, Jiangsu University, China  
**Presentation Title:** Intelligent packaging based on bio-based materials for fruit and vegetable preservation

TBA

**Dr. Yu-Deh Chao**, National Taiwan University of Science and Technology, Taiwan  
**Presentation Title:** Development of 17-4 PH Stainless Steel for Low-Power Selective Laser Sintering

TBA

**Dr. Kassahun Lewetegn**, Arba Minch University, Ethiopia  
**Presentation Title:** Synthesis of Zn<sub>0.87</sub>(Fe, Al)<sub>0.065</sub>o - MO ( MO = NiO, Fe<sub>2</sub>O<sub>3</sub>, CuO, and CoO) nanocomposites: structural, vibrational, optical and antibacterial studies

TBA

**Dr. Silvana Alfei**, University of Genoa, Italy  
**Presentation Title:** Synthesis and Characterization of Amine Containing Copolymers: New Green Crosslinking Agents to Reinforce Gelatine for Tissue Engineering Application

TBA

**Dr. Laura Chianese**, University of Salerno, Italy  
**Presentation Title:** Gadolinium-Doped Bismuth Ferrite for the Photocatalytic Oxidation of Arsenite to Arsenate under Visible Light

TBA

**Dr. David Servando Cantú-Fernández**, University of Monterrey, Mexico  
**Presentation Title:** Mechanical Properties of a Structural Component Processed in High-Pressure Die Casting (HPDC) with a Non-Heat-Treated Aluminum Alloy

**Two Keynote Presentation Slots are Available Now**

## Plenary Speaker Session

### Scientific Sessions

- Session 01:** Materials Science and Engineering
- Session 02:** Nanomaterials and Nanotechnology
- Session 03:** Materials for Energy and Environmental Sustainability
- Session 04:** Electrical, Optical, and Magnetic Materials
- Session 05:** Ceramics and Magnetic Materials
- Session 06:** Metallurgy, Corrosion and Mining
- Session 07:** Emerging Smart Materials
- Session 08:** Advances in Instrumentation Technology

### Sessions Chairperson

Will be Updated soon

TBA

**Dr. Soukaina Boujdi**, Agronomic and Veterinary Institute Hassan II, Rabat Institute, Morocco  
**Presentation Title:** A Benchmarking Study of Irrigation Advisory Platforms

TBA

**Dr. Salvatore Antonio Orlando**, University of Palermo, Italy  
**Presentation Title:** Electrochemical detection of H<sub>2</sub>O<sub>2</sub> by means of gold foam-based electrode

TBA

**Dr. Diana Enab**, An-Najah National University, Palestine  
**Presentation Title:** Sustainable Urban Design Model for Residential Neighborhoods Utilizing Sustainability Assessment-Based Approach

TBA

**Dr. Md Hafijur Rahman**, Pennsylvania State University, USA  
**Presentation Title:** Defect And Microstructure Control Of Materials Using The Electron Wind Force

TBA

**Dr. Xuejian Han**, Shanghai-Tech University of China, China  
**Presentation Title:** Investigation into the Uniformization of Proton Beams for FLASH Therapy

TBA

**Dr. Jiangshan Zhu**, Xi'an Jiaotong Liverpool University, China  
**Presentation Title:** Pricing Chinese Convertible Bonds with Learning-Based Monte Carlo Simulation Model

TBA

**Dr. Emmanuel Kabundu**, Nelson Mandela University, South Africa  
**Presentation Title:** Relative Comparison of Benefits of Floor Slab Insulation Methods, Using Polyiso and Extruded Polystyrene Materials in South Africa, Subject to the New National Building Energy Efficiency Standards

Five Oral Presentation Slots are Available Now

## Poster Presentation Session (TBA)

IVCME-01

**Dr. Panagiotis Loukakos**, Foundation for Research and Technology - Hellas, Heraklion, Greece  
**Presentation Title:** Transient absorption spectroscopy of the Fucoxanthin-Chlorophyll a/c (FCPs) Proteins of the Marine Diatoms *Fragilariopsis* sp and *P. tricornutum*

#### IVCME-02

**Dr. Yujun Sheng**, School of materials science engineering, Yeungnam University, Gyeongsan 38541, the Republic of Korea  
**Presentation Title:** Physico-Chemical Cross-Linked Dual-Network Hydrogels on Porous Surfaces for Enhanced Electrochemical Performance and Self-Healing Behavior

#### IVCME-03

**Dr. Farah Hazmatulhaq**, Yeungnam University, Republic of Korea  
**Presentation Title:** Layer-by-Layer Deposition of Organic Molecules on Defective Inorganic Surface to Enhance Corrosion Resistance and Bioactivity of Magnesium Alloy.

#### IVCME-04

**Dr. : Hanzhang Guo**, China University of Geosciences, China  
**Presentation Title:** A Novel Simplified Physical Model Testing Method for Ground Settlement Induced by Shield Tunnel Excavation

#### IVCME-05

**Dr. Haneen Mahmoud Salem AlTawaiha**, Al-Balqa' Applied University, Jordan  
**Presentation Title:** The Effect of Nano-Silica on the Mechanical and Durability Properties of Cementitious Composites

#### IVCME-06

**Dr. Mesfin Abeje**, Wuhan University of Technology, China  
**Presentation Title:** The Influence of Safety Culture and Climate on Safety Performance: Mediating Role of Employee Engagement in Manufacturing Enterprises, Ethiopia's

**Five Poster Presentation Slots are Available Now**

**End of Session**

**Awards & Closing Ceremony**

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