

# Materials Science Virtual Conference 2024



## SCIENTIFIC PROGRAM

6th International Virtual Conference on Materials  
Science & Engineering

June 29-30, 2024

Virtual Conference (Online Meeting)

**Delight Scientific Conferences**

**Office 1353 182-184 High Street North,**

**East Ham, London E6 2JA, UK**

**Phone Number: +44-7451246744**

**Email: [info@delightscientific.com](mailto:info@delightscientific.com)**



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

# SCIENTIFIC PROGRAM

Material Science Virtual Conference 2024, June 29-30, 2024

**Time: 10:30 AM**

**Time Zone: GMT+1, London, UK**

**June 29, 2024**

**Opening Ceremony:**

**10:30-10:35 AM**

## Keynote Speaker Session

**Presentation time:**

**10:35-11:00**

**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

**11:00-11:25**

**Dr. Laura Chianese**, University of Salerno, Italy

**Presentation Title:** Gadolinium-Doped Bismuth Ferrite for the Photocatalytic Oxidation of Arsenite to Arsenate under Visible Light

**11:25-11:50**

**Dr. Melorina Dolafi Rezaee**, Florida International University, United States

**Presentation Title:** Single-walled carbon nanotubes: synthesis and characteristics

## 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

**Dr. Melorina Dolafi Rezaee**, Florida International University, United States

**Dr. Silvana Alfei**, University of Genoa, Italy

**11:50-12:15**

**Dr. Soukaina Boujdi**, Agronomic and Veterinary Institute Hassan II, Rabat Institute, Morocco

**Presentation Title:** A Benchmarking Study of Irrigation Advisory Platforms

**12:15-12:40**

**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

12:40-13:05

**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

13:05-13:30

**Dr. Fernando V. Mucomole**, Eduardo Mondlane University, Mozambique

**Presentation Title:** Estimating Variability in Long-Term Solar Energy Availability Applying Machine Learning Models

13:30-13:55

**Dr. Diana Enab**, An-Najah National University, Palestine

**Presentation Title:** Sustainable Urban Design Model for Residential Neighborhoods Utilizing Sustainability Assessment-Based Approach

13:55-14:20

**Dr. Seongwoo Woo**, Ethiopian Technical University, Ethiopia

**Presentation Title:** Improving the Fatigue Design of Mechanical Systems such as Refrigerator

14:20-14:45

**Dr. Md Hafijur Rahman**, Pennsylvania State University, USA

**Presentation Title:** Defect And Microstructure Control Of Materials Using The Electron Wind Force

14:45-15:10

**Dr. Xuejian Han**, Shanghai-Tech University of China, China

**Presentation Title:** Investigation into the Uniformization of Proton Beams for FLASH Therapy

15:10-15:35

**Dr. Jiangshan Zhu**, Xi'an Jiaotong Liverpool University, China

**Presentation Title:** Pricing Chinese Convertible Bonds with Learning-Based Monte Carlo Simulation Model

15:35-16:00

**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

**Poster Presentation Session (16:00-16:30)**

6IVCME-01

**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

**6IVCME-02**

**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

**End of Session**

**Awards & Closing Ceremony**

**Delight Scientific Conferences**  
Office 1353 182-184 High Street North,  
East Ham, London E6 2JA, UK  
Email: [info@delightscientific.com](mailto:info@delightscientific.com)  
Phone | WhatsApp Number: +44-7451246744