GLOBAL SCIENTIFIC GUILD
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Global Scientific Guild Conference

PROGRAM

16th Global Webinar on Materials Science and Engineering

October 28-29, 2026

Conference Honorary Chairman



Prof. Michael Thompson
University of Toronto, Canada

Conference Chairman



Prof. Dr. Per Arvid Lothman
Euro-FH University of Applied Sciences Hamburg, Germany

Conference Co Chairman



Prof. Dr. Victor R. Orante Barron
The University of Sonora, Mexico

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https://www.globalscientificguild.com/materials-science/

16th Global Webinar on Materials Science and Engineering

DAY-1

Wednesday, 28 October, 2026

(Time Zone: Eastern Standard Time (EST, UTC-5),
Conference starts at 09:00 AM Eastern Time or 01:00 PM GMT or 02:00 PM CET

09:00-09:10	Introduction/Opening Ceremony
09:10-09:45 	Title: Geometrically Organized Mechanics: From Material Properties to Programmable Mechanical Behaviour Prof. Dr. Per Arvid Lothman, European University of Applied Sciences Hamburg, Germany
09:45-10:20 	Title: Stimulated Luminescence of Novel Oxides Obtained by Solution Combustion Synthesis Prof. Victor R. Orante Barron, The University of Sonora, Mexico
10:20-10:55  	Title: Nature-Inspired Intelligence or AI for Sustainable Materials Discovery? Dr. Severine A. E. Boyer and Dr. Alain Burr, French National Centre for Scientific Research, CNRS, France
10:55-11:30 	Title: Calcium Carbide Residue as a Sustainable Binder for Eco-Friendly Construction Materials Prof. Dr. Buruiana Daniela Laura, Dunarea de Jos University of Galati, Romania
11:30-12:05 	Title: Surace chemistry strategies for development of acoustic wave biosensors for detection of a cancer biomarker Prof. Michael Thompson, University of Toronto, Canada
12:05-12:35 	Title: From Nanomaterial Properties to Food-Quality Decisions: Smart Sensing Across the Cold Chain Ivanov Andrei, Dunarea de Jos University of Galati, Romania
12:35-12:45	*Break*
12:45-13:20 	Title: Materials Science and Technological Applications of a Unique Multifunctional Ultra nanocrystalline Diamond (UNCDTM) Coating for New Generations Industrial/High-Tech/Medical Devices/Prostheses Prof. Auciello Orlando, University of Texas-Dallas, USA
13:20-13:50 	Title: Sensor-Based Identification and Monitoring System for Secure Documents Containing Magnetic Microwires Catalin Arama, Dunarea de Jos University of Galati, Romania
13:50-14:20 	Title: Industrial Waste as a Resource for Sustainable Construction Materials: Performance, Environmental Benefits, and Future Perspectives Elena Ciutac (Nicolaev), Dunarea de Jos University of Galati, Romania
14:20-14:50 	Title: Next-Generation Kevlar-Based Ballistic Protection through Advanced Surface Modification Georgiana Ghisman (Alexe), Dunarea de Jos University of Galati, Romania
14:50-15:25 	Title: Movable Platform Guardrail Failure Investigation Mr. Robert Oshea, Applied Materials Technologies Inc., USA
15:25-16:00 	Title: Mechanochemistry – An Emerging Technology on Earth and Beyond Prof. Viktor P. Balema, Clemson University, Clemson, SC and ChemImpakt, Milwaukee, WI, USA

16th Global Webinar on Materials Science and Engineering

DAY-2

Thursday, 29, October, 2026

(Time Zone: Eastern Standard Time (EST, UTC-5),
Conference starts at 09:00 AM Eastern Time or 01:00 PM GMT or 02:00 PM CET

09:00-09:35	 **Title: PEEK-Hydroxyapatite Composites for Orthopaedic Implants: Linking Crystallization Behavior to Mechanical and Wear Performance** Dr. Sujoy Kumar Dey, Sharda School of Engineering & Sciences, Sharda University, Greater Noida, India
09:35-10:05	 **Title: Monitoring the Freeze–Thaw Behaviour of Hot-Mix Asphalt Incorporating Industrial Waste through SEM Morphological Analysis** Prof. Dr. Buruiana Daniela Laura, Dunarea de Jos University of Galati, Romania
10:05-10:35	 **Title: Engineering Advances in Cryogenic Fluid Storage: Materials and Technologies** Marian-Cristian Staicu, Dunarea de Jos University of Galati, Romania
10:35-11:10	 **Title: Sustainability in Corrosion Protection: Eco-Friendly Strategies and Next-Generation Inhibitors** Ionut – Cristian Balan-Balantof, Dunarea de Jos University of Galati, Romania
11:10-11:45	 **Title: A Deep Reinforcement Learning Framework for Stabilizing Qubits Against Decoherence and Control Imperfections** Prof. Priyanka Brojabasi, Quantum Computing Group, CGI, Canada
11:45-12:15	 **Title: Innovative Surface Protection Strategies for Enhancing the Corrosion Resistance of Metallic Materials in Marine Environments** Bianca-Elena Roşca (Neagu), Dunarea de Jos University of Galati, Romania
12:15-12:25	**Break**
12:25-12:55	 **Title: Sensor Integrated in Asphalt Materials for Sustainable and Intelligent Road Infrastructure** Toader Iacob Andromeda, Dunarea de Jos University of Galati, Romania
12:55-13:30	 **Title: Synthesis of Single Crystal Diamond for Applications in High Temperature Electronics** Dr. Rahul Ramamurti, Epidia Technologies, USA
13:30-14:00	 **Title: Preparation and Investigating the Physical, Mechanical and Thermal Performances of Sand/Soil/Recycled HDPE Composites** Dr. Etienne Malbila, University Yembila Abdoulaye Togueyeni, Burkina Faso
14:00-14:30	 **Title: From Laboratory to Construction: Machine Learning and Life Cycle Assessment for Scalable Low-Carbon Geopolymer Materials** Dr. Justin KINDA, University Yembila Abdoulaye Togueyeni, Burkina Faso
14:30-15:05	 **Title: Fe_3O_4@PDA Loading as a Processing Window Determinant for 4D-Printed Self-Deployable Vascular Stents with Dual Magnetic/NIR Actuation** Dr. Rafael Aguirre Flores, Center for Research in Applied Chemistry, Mexico
15:05-15:40	 **Moving Towards Personalized Medicine with Nanomedicine: 45,000 Patients and Counting** Prof. Thomas J. Webster, Brown University, USA

Next Event:

17th Global Webinar on Materials Science and Engineering

February 24-25, 2027

OUR OTHER CONFERENCES

19th Global Webinar on Traditional and Integrative Medicine	November 04-05, 2026
18th Global Webinar on Forensic Science	November 11-12, 2026
Global Webinar on Acupuncture	December 01-02, 2026
17th Global Webinar on Applied Science, Engineering and Technology	December 08-09, 2026
Global Webinar on Criminology	December 10-11, 2026
8th Global Webinar on 3D Printing and Additive Manufacturing	December 15-16, 2026