

## Global Scientific Guild Conference

### PROGRAM

# 13<sup>th</sup> Global Webinar on Materials Science and Engineering

November 05-06, 2025

#### Conference Chairman



**Prof. Dr. Per Arvid Lothman**  
*European University of Applied Sciences Hamburg,  
Germany*

#### Conference Co-Chairman



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

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

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# DAY-1

Wednesday 05, 2025

Conference starts at 09:00 AM Eastern Time or 02:00 PM GMT or 07:30 PM IST

09:00-09:10 Introduction/Opening Ceremony

09:10-9:45



Title: Perspectives on Structures and Life

**Dr. Per Arvid Lothman, European University of Applied Sciences Hamburg, Germany**

09:45-10:20



Title: Effect of the Intrinsic and Extrinsic Defects on the Stimulated Luminescence Properties of Inorganic Oxides Obtained by Solution Combustion Synthesis.

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

10:20-10:55



Title: Materials Science and Technologies Development Based on a Unique Multifunctional/Low-Cost Ultrananocrystalline Diamond (UNCDDTM) Coating for New Generations of Industrial, High-Tech and Implantable Medical Devices/Prostheses

**Prof. Auciello Orlando, University of Texas-Dallas, USA**

10:55-11:30



Title: Structural phenomena in solidified materials: state of art based materials response under Impulse Excitation environmental stress.

**Dr. Severine A. E. BOYER, French National Centre for Scientific Research , CNRS, France**

11:30-12:05



Title: Molecular Simulation of the Isotropic-to-Nematic Transition of Rod-like Polymers in Bulk and Under Confinement.

**Biao Yan, The Polytechnic University of Madrid, Spain**

12:05-12:40



Title: Structural Analysis of Primitive Paths: Athermal Semi-flexible Polymers

**Diego Enrique Alvarado Martín, The Polytechnic University of Madrid , Spain**

12:40-12:50

Break

12:50-13:20



Title: Where Atoms Dream Big: The Power of Nanotechnology

**Prof. Gowhar A. Naikoo, The Dhofar University, Oman**

13:20-13:55



Title: Nanolubricants for Industrial Plastic Deformation Applications

**Dr. Jaime Taha-Tijerina, The University of Texas Rio Grande Valley, USA**

13:55-14:30



Title: Latest Advances in the Field of Smart Wearables

**Dr. Radhakrishnaiah Parachuru, Georgia Institute of technology, USA**

14:30-15:05



Title: Chemistry by Milling: Mechanical Alloying and Solvent-Free Mechanochemistry

**Prof. Viktor P. Balema, Clemson University, Clemson, SC and ChemImpakt, Milwaukee, WI, USA**

15:05-15:40



Title: Advancing Bioinspired and Low Dimensional Composite Materials Through High-Accuracy Simulations

**Prof. Hendrik Heinz, The University of Colorado Boulder, USA**

# DAY-2

Thursday, November 06, 2025

Conference starts at 09:00 AM Eastern Time or 02:00 PM GMT or 07:30 PM IST

09:00-9:35



Title: Combination of radiotherapy, chemotherapy, and nanotechnology to improve outcomes in cancer treatment

**Prof. Devika Chithrani, The University of Victoria, British Columbia, Canada**

9:35-10:10



Title: Ultralow-Voltage High-Performance Soft Actuators Based on Polysulfonated COF Hosts

**Prof. Mahato Manmatha, Korea Advanced Institute of Science and Technology, South Korea**

10:10-10:45



Title: Emerging Avenues in Nanoarchitectonics in Materials Science and Nanotechnology

**Prof. Dr. Kaushik Pal, The University Center for Research and Development (UCRD), Punjab, India**

10:45-11:20



Title: Piezo-plasmon phototronic effect enhanced direct solar-chemical translations in Au-decorated BiFeO<sub>3</sub> 3D nanostructures

**Prof. Khalid Mujasam Batoo, King Abdullah Institute For Nanotechnology, King Saud University, Saudi Arabia**

11:20-11:55



Title: Building a Circular Supply Chain for Concrete

**Prof. Richard Riman, Rutgers, The State University of New Jersey, USA**

11:55-12:05

Break

12:05-12:40



Title: Direct Ink Writing of ceramic Slurries and Hydrogels: Challenges in Formulation, Rheology, and Print Strategies for Medical and Industrial Applications.

**Prof. David Andres Fernandez Benavides, The Center for Industrial Engineering and Development (CIDESI), Mexico**

12:40-13:15



Title: Enhanced energy storage and wastewater treatment through the surface functionalization of various materials with silver nanoparticles

**Prof. Monika Kinga Michalska, VSB - Technical University of Ostrava, Czech Republic**

13:15-13:50



Title: Artificial Intelligence for Predictive Modeling in Metal Additive Manufacturing

**Dr. Salah Uddin, North South University, Dhaka, Bangladesh**

13:50-14:25



Title: Water-Activated Polymers to Address Global Challenges in the Healthcare, Energy and Environment Sectors

**Prof. Richard Spontak, North Carolina State University, USA**

14:25-15:00



Title: Will be updated soon

**Dr. Daniel Macharia, Donghua University, China**

**Next Event:**

**14<sup>th</sup> Global Webinar on  
Materials Science and Engineering  
March 04-05, 2026**

## OUR OTHER CONFERENCES

<b>16<sup>th</sup> Global Webinar on Traditional and Integrative Medicine</b>	<b>November 12-13, 2025</b>
<b>15<sup>th</sup> Global Webinar on Forensic Science</b>	<b>November 19-20, 2025</b>
<b>14<sup>th</sup> Global Webinar on Applied Science, Engineering and Technology</b>	<b>November 25-26, 2025</b>
<b>3<sup>rd</sup> Global Webinar on Neuroscience and Brain Disorders</b>	<b>December 03-04, 2025</b>
<b>4<sup>th</sup> Global Webinar on Renewable and Sustainable Energy</b>	<b>December 09-10, 2025</b>
<b>13<sup>th</sup> Global Webinar on Public Health</b>	<b>February 25-26, 2026</b>
<b>2<sup>nd</sup> Global Webinar on Obstetrics and Gynecology</b>	<b>March 25–26, 2026</b>