

FINAL PROGRAM



3rd WORLD CONGRESS ON NANOTECHNOLOGY

3rd INTERNATIONAL CONFERENCE ON OPTICS AND LASER
TECHNOLOGY

3rd GLOBAL EVENT ON MATERIALS SCIENCE AND
ENGINEERING



OCTOBER **29-30**, 2026



HOLIDAY INN

Conference Centre Berlin

Hans-Grade-Allee 5

12529 Schönefeld bei Berlin, Germany

Note:

- The conference follows Central European Time for In-person and for Virtual sessions.
- The program will take place @ HOLIDAY INN Conference Centre Berlin in Hybrid mode.
- Virtual presentations which takes place in Zoom meetings in **Central European Time (CET)**.
- Sometimes there may be small changes in the program due to technical problems or presenters not showing up. To avoid missing any presentations, all presenters are asked to be available for the entire day of their presentation. When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country.

OCTOBER 29, 2026

Thursday

Central European Time (CET)

(Hybrid Event)

09:00-09:30

Registrations & AV check

09:30-10:00

Opening Ceremony and Introduction

Moderator
Sudip Chatterjee,
Haldia Institute of Management, India

KEYNOTE PRESENTATIONS

10:00-10:40

Title: Compound Semiconductors and VCSEL Chips Technology and Applications**David Cooke,** Director of Sales at Vital Materials, USA

10:40-11:20

Title: Alternative Testing Strategies For Nanomaterials Safety Assessment: From Mechanistic Studies To Regulatory Needs**Ying Jan Wang,** National Cheng Kung University, Taiwan

Coffe Break & Group Photo (11:20-11:30)

11:30-12:10

Title: The Study Of Einstein Relation In Quantum Wire Superlattices (QWSL) Of Parabolic Semiconductors: Simplified Theory And Suggestions For Further Experimental Determination In Biomaterials**Sudip Chatterjee,** Haldia Institute of Management, India

12:10-12:50

Title: From Human Implants To 4D Printing: Pushing The Boundaries Of Nanomedicine**Thomas J Webster,** Brown University, USA

Lunch Break (12:50-13:50)

Moderator**Teodora Lloclla Aguilar,** National University of Engineering, Peru

ORAL PRESENTATIONS

13:50-14:20

Title: Multispectral Thermal Imaging Enabled by Dispersion-Engineered Metalens**Shaowei He,** University of Electronic Science and Technology of China, China

14:20-14:50

Title: Noise-Resistant Single Photon Detection for Applications in Extreme Environments**Chengbing Qin,** Shanxi University, China

14:50-15:20

Title: Upconversion Luminescence Control of Lanthanide-Doped Nanoparticles and Its Application in Mid Infrared Detection**Ruiyun Chen Shanxi University,** Institute of Laser Spectroscopy, China

15:20-15:50

Title: Synthesis, Characterization, Antimicrobial, Ecotoxicological And Compostability Evaluation Of Keratin-Silver Nanoparticles Composites (Keratin-AgNPs)**Teodora Lloclla Aguilar,** National University of Engineering, Peru

15:50-16:20

Title: Nano Medicine: Thermotherapy-Empowered Cognitive Gold Nano-Thermo Robots For Targeted Arterial Plaque Removal**Zahid Hasan,** NCBAE: Alhamara University, Pakistan

16:20-16:45

PB001

POSTER PRESENTATIONS

Title: Towards a Unified Nanoparticle Characterisation Technique by the Coupling of Polarimetry with Traditional Light Scattering Methods

Matthew Jacobs, University of Bristol, UK

OCTOBER 30, 2026

Friday

Central European Time (CET)

(Hybrid Event)

08:00-08:30

Registrations & AV check

08:30-09:00

Opening Ceremony and Introduction

Moderator**Manjushree Bhattacharyya,**
Vidyasagar University, India

CET

Local Timings

KEYNOTE PRESENTATIONS

09:00-09:30

17:00-17:30

Title: Sensor, energy and environmental applications of fullerene nanowhiskers and related carbon nanomaterials**Kunichi Miyazawa,** Nano Alloy Technology Inc, Japan

09:30-10:00

16:30-17:00

Title: Azodye Photoaligned Nanolayers For Liquid Crystal: New Nanomaterial Application**Vladimir Chigrinov,** Hong Kong University of Science and Technology, Hong Kong

10:00-10:30

12:00-12:30

Title: Field Effect Transducers For Nanosensors**Martin Grell,** University of Chuka, Kenya

10:30-11:00

12:30-13:00

Title: Role Of Mineralogical Phase-Change Anomalies In Modifying Snow-Ice Mass Balance**Bulent Gultekin Akinoglu,** Middle East Technical University, Turkey

11:00-11:30

13:00-13:30

Title: Memory Characteristics and Crystallographic Transformations in Shape Memory Alloys**Osman Adiguzel,** Firat University, Turkey

11:30-12:00

11:30-12:00

Title: Managing Knowledge-Based Integration And Interoperability In Intelligent And Ethical Transformed Health And Social Care Ecosystems**Bernd Blobel,** University of Regensburg, Germany

12:00-12:30

13:00-13:30

Title: AI-Optimized Green-Light WDM Multiplexer Based on Multicore Polymer Optical Fiber**Dror Malka Holon,** Institute of Technology, Israel

12:30-13:00

14:30-15:00

Title: Memory Characteristics and Crystallographic Basis of Reversibility in Shape Memory Alloys**Osman Adiguzel,** Firat University, Turkey

13:00-13:30

09:00-09:30

Title: Graphene Quantum Dots As A New Platform For Photodynamic Therapy**Paulo Cesar De Moraes,** Catholic University of Brasilia, Brazil

13:30-14:00

08:30-09:00

Title: Effective Partial Carbon Black Replacement by Pyrolyzed Soybean Hulls in Composites with High Density Polyethylene**Erol Sancaktar,** The University of Akron, USA

ORAL PRESENTATIONS

14:00-14:25 18:30-18:55

Title: A facile highly selective colorimetric detection of Pb²⁺ ions using gold nanoparticles as a probe and its application in real samples analysis
Manjushree Bhattacharyya, Vidyasagar University, India

14:25-14:50 14:25-14:50

Title: Preparation of green nanotools as new photothermal agents in antimicrobial disinfection and cancer care
Lucia Mergola, University of Salento, Italy

14:50-15:15 19:20-19:45

Title: Role of d electrons in Multifunctional Materials
Sujit Kumar Bandyopadhyay, Variable Energy Cyclotron Centre, India

15:15-15:40 10:15-10:40

Title: Active control of ablation threshold of materials using optical vortex beams
Melika Afshar, Ottawa University, Canada

15:40-16:05 15:40-16:05

Title: Enhanced Bioenergy Production by a Pre-Cultured Pseudomonas–Bacillus Consortium Using a PANI/rGO/g-C₃N₄-Modified Flexible Anode in a Single-Chamber Air-Cathode Microbial Fuel Cell
Afreen, Northumbria University, UK

POSTER PRESENTATIONS

16:05-16:20 18:05-18:20

Title: Influence of Synthetic Gold Nanoparticles on Growth and Physiological Responses of Rucola (Eruca Sativa Mill.) Seedlings Under Salt Stress
Aleksandra Mosenoka, Daugavpils University, Latvia

16:20-16:35 10:20-10:35

Title: Lowering Entry Costs of Two Photon Polymerization by Creation of Visible Wavelength Processes
Blake Daiber, Auburn University, USA

UPCOMING CONFERENCES



We wish to engage with you again in 2027...

4th WORLD CONGRESS ON NANOTECHNOLOGY, MATERIALS SCIENCE & ENGINEERING

OCTOBER 07-08, 2027 | BARCELONA, SPAIN

<https://www.scitechseries.com/nanotechnology>



4th INTERNATIONAL CONFERENCE ON OPTICS AND LASER TECHNOLOGY

OCTOBER 28-29, 2027 | BERLIN, GERMANY

<https://www.scitechseries.com/optics>



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