

**NanoX 2026**

**Global Nanotechnology Network**

701 West Georgia Street, Suite 1500,  
Vancouver, V7Y 1C6, Canada

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6TH GLOBAL CONFERENCE ON

# ADVANCED NANOTECHNOLOGY AND NANOMATERIALS

OCTOBER 26-27, 2026 | AMSTERDAM, NETHERLANDS

**Theme:** "Nanotechnology for a Sustainable and Smart Future: Innovations Transforming Medicine, Energy, and Industry"

NanoX 2026

## SUB THEMES

- Nanomedicine and Biotechnology: Revolutionizing Healthcare
- Beyond Graphene: The Next Generation of 2D Materials
- Self-Healing and Smart Nanomaterials for Future Technologies
- Frontiers in Nanoscience: Integrating Quantum, AI, and Emerging Nanotechnologies
- Sustainable Nanomaterials: Advanced Solutions for Industry and Environment
- Nanoelectronics and Quantum Technologies: Enabling the Next Digital Revolution
- Nanotechnology for Clean Energy and Sustainable Power Solutions
- Environmental Nanotechnology: Innovations for Water, Air, and Soil Remediation
- Nanotechnology in Food, Agriculture, and Smart Packaging
- Nanotechnology in Wearable and Flexible Electronics
- Nanorobotics and Intelligent Nanosystem

## WHY TO ATTEND?

### What you take

Attending a Nanotechnology and Nanomaterials conference provides a valuable opportunity to engage with leading experts, discover emerging trends, and gain insights into cutting-edge innovations. It also contributes significantly to professional growth by deepening technical knowledge, broadening skill sets, and fostering collaborations that drive career advancement.

125  
+



**EDUCATIONAL  
SESSIONS**

60  
+



**INTERNATIONAL  
SPEAKERS**

20  
+



**HOURS OF  
NETWORKING  
EVENTS**

12  
+



**INNOVATIVE  
FEATURED SPEAKERS**

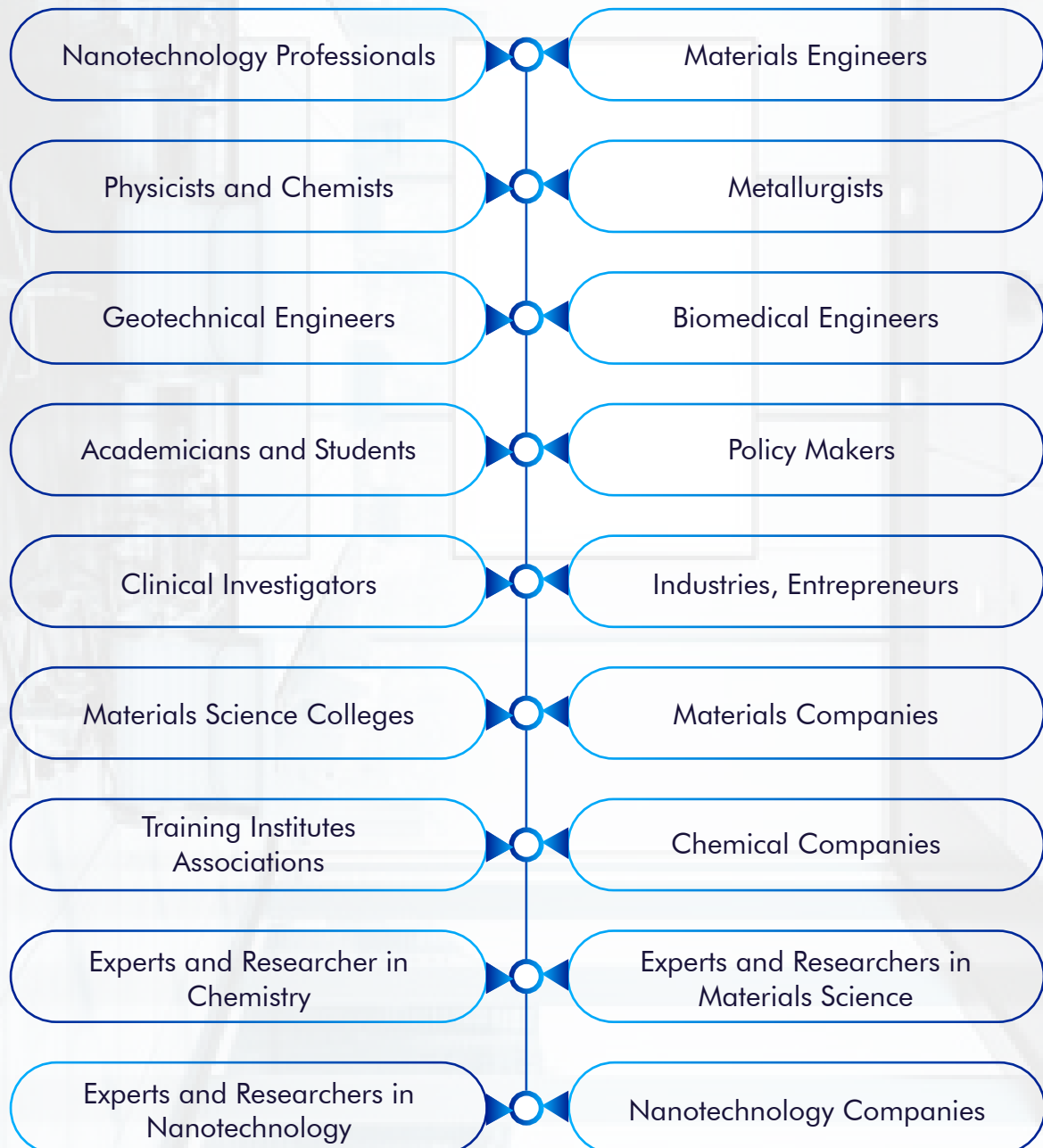
02



**02 Day  
Conference**



# WHO SHOULD ATTEND?





**Distinguished Delegates and Esteemed Colleagues,**

It is a great honor and pleasure to welcome you to the **6th Global Conference on Advanced Nanotechnology and Nanomaterials**, which will take place from October 26-27, 2026, in the dynamic city of **Amsterdam, Netherlands**.

This conference offers an outstanding platform to showcase cutting-edge research and innovations in one of the most transformative scientific fields of our time. It is the ideal opportunity for the international community to come together to exchange ideas, forge valuable collaborations, and network with leading experts in this field.

Nanotechnology and nanomaterials are not only a fascinating area of research but also a crucial driver of progress. Their enormous benefits extend across virtually every industry, contribute significantly to the protection of our planetary ecosystem, and open up promising career paths for scientists who engage with these technologies early on.

We are confident that this two-day scientific event will create a perfect synergy of knowledge and innovation. The program includes stimulating discussions and presentations by leading experts from around the world, as well as presentations of the latest research findings by young scientists.

We anticipate a diverse and engaged audience—including delegates, experts, students, researchers, professionals from the nanotechnology, chemical, and materials industries, policymakers, and healthcare professionals. Your active participation and contributions are key to the open and collaborative atmosphere we aim to foster.

Your presence and engagement will undoubtedly contribute to the outstanding success of this congress and advance all aspects of nanotechnology.

We look forward to welcoming you to Amsterdam and sharing two days of scientific inspiration and groundbreaking discussions.

Sincerely,  
**Anne Rosken**  
ANED – HSG – PCU, Germany



**Fernando Pinto Coelho**  
Federal University of Alagoas, Brazil



Dear Esteemed Guests,

We are delighted to welcome you to the **6<sup>th</sup> Euro-Global Summit on Advances in Nanotechnology, Smart Materials, Energy Materials, and Structures**, to be held on **October 26-27 2026**, in **Amsterdam, Netherlands**.

This premier congress offers a comprehensive platform to explore the pressing global challenges and emerging opportunities in nanotechnology—emphasizing the pivotal role of nanoscale science and innovation in overcoming material limitations, enhancing energy efficiency, reducing environmental impact, and driving sustainable technological advancement.

Over two dynamic days, world-renowned researchers, scientists, and industry pioneers will showcase cutting-edge developments in nanotechnology, smart materials, advanced energy systems, nano drug delivery, and sustainable structural design. Together, we will venture into new horizons of materials science and nanoscience, exploring everything from next-generation nanoscale substrates to transformative breakthroughs in energy generation, biomedical applications, resource optimization, and sustainable development.

The summit will unite a vibrant community of academics, students, research institutions, and industry leaders—all driven by a shared vision to accelerate nanotechnology-driven innovation, revolutionize industrial and biomedical applications, and foster economic, environmental, and social sustainability through nanoscale solutions.

We warmly invite scientists, engineers, researchers, and professionals from across the fields of materials science, nanotechnology, chemistry, biology, and renewable energy to join us in the magnificent city of Amsterdam. Together, let us exchange knowledge, spark collaboration, and inspire the breakthroughs that will shape a smarter, more sustainable future.

Welcome to Amsterdam—welcome to the frontier of nanotechnology and smart innovation!

Best Regards  
**Fernando Pinto Coelho**  
Federal University of Alagoas, Brazil

# PRESENTATION FORUM

01

## KEYNOTE FORUM / MINI-PLenary SESSIONS

Presentations under Keynote Forum or Mini-Plenary Sessions includes abstracts with remarkable research value selected by the program committee. These significant speeches are delivered by globally recognized honorable speakers and it is open to all registrants.

## DISTINGUISHED SPEAKERS FORUM (ORAL ABSTRACT SESSIONS)

In this forum, speakers and experts of the research field gets an opportunity to showcase their noble research work that involves comprehensive research findings. These formal oral presentations include a wide range of talks covering basic research to advanced research findings in accordance to the theme and scientific sessions of the conference.

02

03

## STUDENT FORUM / POSTER SESSION

This session is particularly introduced to encourage more number of student participation at international conferences, however it is not restricted only to students since it is also available for the participants with language barrier. There are specific guidelines to be followed to prepare the poster. Poster topic should be selected only from relevant scientific sessions with in-depth technical details.

## YOUNG INVESTIGATORS FORUM

An exclusive opportunity for students and young investigators to present their research work through a formal oral presentation. Young Investigators Forum provides a global platform for young researchers and scholars to showcase their valuable contribution to the scientific world and to get acknowledged by the global scientific community of experts. It is an excellent opportunity to recognize young scientific assets with promising research ideas. These oral presentations are of shorter time duration with 10-15 minutes of informative and precise presentations in relevant scientific sessions.

04

05

### **EDUCATIONAL WORKSHOPS/RESEARCH WORKSHOPS/ CORPORATE WORKSHOPS/MINI- SYMPOSIA**

With an aim of transferring knowledge among the participants, workshops are introduced as a part of international conferences. These interactive and occasionally practical sessions gives an opportunity for participants to engage in detail discussion. Workshops are mostly scheduled for 60 to 90-minutes. It may range from learning about a specific topic relevant to international education, products and research which sometimes involves practical demonstration. It helps in enhancing skills, knowledge and understanding of the research field in depth through interactive discussions.

### **HIGHLIGHTS OF THE DAY SESSIONS**

"Highlights of the Day Sessions" is introduced to discuss and focus a ray upon previous day ORAL ABSTRACT presentations by experts to summarise the key findings. It helps in getting better insights into the various dimensions of the topic.

06

07

### **MEET THE PROFESSOR @ NETWORKING SESSIONS**

This session involves open discussion between the experts and session attendees, it gives enough time for getting answers to specific questions and doubts. It is an opportunity for attendees to increase their professional networking, sometimes also leads to an excellent collaboration opportunity.

### **EDUCATIONAL SESSIONS/ TRAINING PROGRAMS**

Educational Sessions or training programs are specifically designed for a better understanding of the latest findings and technologies. These are generally 45-minute sessions that gives an exposure to the multidisciplinary field, that provides in-depth learning experiences and address educational needs.

08

## ACADEMIC REGISTRATIONS

## BUSINESS REGISTRATIONS

01

### Speaker Registration

#### COMBO A

(Registration +  
2 Night Accommodation)

#### COMBO B

(Registration +  
3 Night Accommodation)

### Delegate Registration

02

### Speaker Registration

#### COMBO A

(Registration +  
2 Night Accommodation)

#### COMBO B

(Registration +  
3 Night Accommodation)

### Delegate Registration

## STUDENT REGISTRATIONS

## ADDITIONAL REGISTRATIONS

### Registration

YIF

#### COMBO A

(Registration +  
2 Night Accommodation)

#### COMBO B

(Registration +  
3 Night Accommodation)

### Posters

### Accompanying Person

#### E-Poster

#### Virtual Presentation

#### Workshops

#### Start-Ups

03

04



REGISTER

# REGISTER & PARTICIPATE

NanoX 2026



# CONCURRENT EDUCATIONAL SESSIONS



**MONDAY - OCTOBER 26, 2026**



- Nanoscience and Technology
- Novel Drug Delivery



- Nano Polymers, Nanotubes and Nano Porous Materials
- Nano Physics
- Nano Weapons

**GROUP PHOTO | COFFEE BREAK**



- Nano-Surgery
- Functional Nano Materials
- Graphene and Fullerenes



- Properties of Nanomaterials
- Materials Science and Engineering
- Nano Structures

**LUNCH BREAK**



- Nano Chemistry
- Molecular Nanotechnology
- Nanotechnology in Cancer Treatment



- Advancing Cellulose-based Nanotechnology
- Nano Mechanics
- Forensic Nanotechnology

**GROUP PHOTO | COFFEE BREAK**



- Nanotechnology and Energy
- Nanostructures and Nanofilms



- Nano Medicine
- 3D Printing
- Carbon Nanotubes



# CONCURRENT EDUCATIONAL SESSIONS



**TUESDAY - OCTOBER 27, 2026**



- Fuel Cells
- Lipid Nanotechnology
- Nano Biotechnology



- Nano Pharmaceuticals
- Nano Polymers
- Nanotechnology in Tissue Engineering

**GROUP PHOTO | COFFEE BREAK**



- Nanotechnology in Urology
- Robotics
- Nanotoxicology



- Nanotribology
- Nano Products
- Commercialization of Nanotechnology

**LUNCH BREAK**



- Artificial Intelligence
- Nanobots



- Nanosensors
- Nanodentistry
- Self-healing materials

**GROUP PHOTO | COFFEE BREAK**



- Nanotechnology Materials Science
- Nanotechnology in Military Applications



- Fight Against Climate Change
- Nano and Big Data
- Nanographene
- Nano-systems



# 6TH GLOBAL CONFERENCE ON ADVANCED NANOTECHNOLOGY AND NANOMATERIALS

**NanoX  
2026**



**OCTOBER 26-27, 2026  
AMSTERDAM, NETHERLANDS**

<https://www.nanotechconferences.com>

## Featured Speakers

**Mallesh Deshapaga**

Synoptek LLC, USA

**Salma Adam**

University of Maryland School of Medicine, USA

**Jabari Mahiri**

University Of California Berkeley, USA

**Sandesh Acharya**

Ultieg Engineers Inc., USA

**Kalyan C. Durbhakula**

Ansys (Part of Synopsys), USA

**Nitin Tripathi**

Senior Architect, USA

**Khashayar Ghandi**

University of Guelph, Canada

**Sahand Nikoo**

Waterloo Collegiate Institute, Canada & University  
of Guelph, Canada

**Sergio A. Bucarey**

Universidad de Chile, Chile

## Presentation Titles

**AI in Returns and Reverse Logistics  
Optimization (SCM) for sustainable  
development**

**Between Bullets and Outbreaks: Epidemic  
Control in Sudan's Forgotten War**

**Effective Preparation For Stem Learning In  
Early Childhood**

**Multimodal Language Model (Mlm)  
Optimization Algorithm Implementing  
Digital Twin Power Grid**

**The Role of Computational  
Electromagnetics for the Development of  
Nanoelectronics**

**Hybrid Deep Learning-Driven Smart  
Energy Management Framework in High-  
Tech Cities using LeNet, GRU and AJFO**

**Metal Oxide and Metal Nanostructures in  
Health and Energy Industries**

**TumourSense: A Nanostructured ITO  
Biosensor Integrated with Machine  
Learning for Low-Cost Cancer Screening**

**Low-Molecular-Weight Sulfated Chitosan  
Microparticles Efficiently Bind HIV-  
1 in Vitro: Potential for Microbicide  
Applications**



# SPEAKER SLOTS AVAILABLE

**Eric Santiago Hernandez Bernal**

Universidad de América, Colombia

**Electrochemical Sculpting of Vanadium Oxides: The Role of Molybdenum in Structural and Corrosion Stability**

**Emmanuel Chinonye Mgbemene**

Department of Environmental Engineering,  
Cyprus International University, Cyprus

**Assessment of Reactive Surface Areas and Particle Sizes Configuration Profiling of Biomass Sample**

**Lucilene dos Santos**

Department of Geology, Federal University of  
Ceará, Brazil

**From Brazilian Natural Graphite to Graphene: Processing, Structure and Function**

**Thomas Mager**

Fraunhofer Institute Electromechanical Design  
IEM, Germany

**Circular Electronics Design Of Ict Devices On Aluminium Substrates In Mechatronics Integrated Devices Technology**

**Montserrat Govea Franco**

School of Economics and Business Science,  
Universidad Panamericana, México

**Green Finance And Decarbonization: A Bibliometric Analysis With A Latin American Perspective**

**João Pedro Bennett**

Instituto de Matemática e Tecnologia, Brasil

**Design and construction of a low-cost bomb disposal robot**

**José Luis Navarro Jiménez**

Faculty of Chemistry, Autonomous University of  
Querétaro, México

**From Urban Debris to Functional Nanomaterials: A Circular Economy Strategy Rooted in Regional Sustainability in Querétaro, Mexico.**

**Adeline Gabriela Silva Gil**

Institute of Mathematical and Computer Sciences  
- University of Sao Paulo, Brazil

**Development of a sociotechnical system for discovering resources and practices in knowledge ecosystems: the case of the RedeProl platform as design-oriented research focused on promoting circular design**

**Ommolbanin Asad Pour**

Department for Gastroenterology, Hepatology  
and Transplantation Medicine; University Hospital  
Essen (UK Essen); Essen; Germany

**Combinational CSF1R/PD-L1 Targeting by BM-MSC-Derived Exosome- Liposome Hybrid Orchestrates Tumor-Associated Macrophage Phagocytosis in an In Vitro Tumor-Microenvironment-Dependent Manner**

**Zahraa Saleh**

Institut Européen des Membranes, Univ  
Montpellier, France

**Defect-Engineered Hexagonal Boron Nitride as a Dual-Action Orthopedic Biomaterial for Simultaneous Osteogenesis and Osteosarcoma Therapy**

**Kirill V. Pitelinsky**

Moscow Polytechnic University, Russia

**Digital Campus Twins: Concepts, Technologies, and Development Prospects**



# SPEAKER SLOTS AVAILABLE

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**Ana Maria Fagetan**

University of Rome "La Sapienza", Italy

**Transposition And Implementation Of European Union Renewable Energy Legislation In France, Italy, And Germany: A Regulatory Perspective And A Comprehensive Analysis Of Opportunities And Challenges**

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**Aimé Lay-Ekuakille**

University of Salento, Dept of Innovation Engineering, Italy

**Triggering the Effects of Nuclear Bio-Thermal Resonance for Diagnosis and Rehabilitation in Medical Robotics for Kinetic Therapy : A Molecular Nanotechnology Viewpoint**

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**Claudia Riccardi**

University of Milano-Bicocca, Italy

**Ageing of Oxygen-Plasma-Treated Polytetrafluoroethylene Surfaces: Revealing a Novel Link Between Morphological Evolution and Wettability**

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**Rabia Maryam**

University of Milano-Bicocca, Italy

**Surface-Modified Nylon Textile for Wearable rGO/MOx-Based Chemiresistive Gas Sensors**

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**Vladislav Sadykov**

Boreskov Institute of catalysis, Russia

**Design of Nanocomposite Materials for Advanced Energy Field**

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**Omamah Ali**

German Environment Agency, Section II 3.3, Germany

**Removal of perfluoroalkyl substances from drinking water with anion exchange resins and a divinylbenzene sorbent in column experiments**

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**Charlotte Christina (Charissa) Roossien**

Engineering and Technology Institute Groningen (ENTEG), Department of Bio-inspired MEMS and Biomedical Devices, Netherlands

**Toward Smart Orthopedic Implants: Integrating Continuous pH and H<sub>2</sub>O<sub>2</sub> Sensing for infection and inflammation**

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**Kunichi Miyazawa**

Nano Alloy Technology Inc., Japan

**Gas Sensor Application Of Fullerene Nanowhiskers**

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**Kiichi Sugimoto**

Department of Coloproctological Surgery, Juntendo University Faculty of Medicine, Japan

**Circulating-Tumor DNA Methylation is A biomarker of Poor Recurrence-free Survival in Locally Advanced Rectal Cancer**

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**Takahiro Irie**

Department of Coloproctological Surgery, Juntendo University Faculty of Medicine, Japan

**The methylation level of circulating tumor DNA predicts prognosis for stage I-III colorectal cancer**

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**SPEAKER SLOTS AVAILABLE**

### **Shuichi Fukuda**

System Design and Management Research  
Institute, Keio University, Japan

**Spontaneous Robots and Enhancing Their  
Empathy**

### **Tahir Raza**

College of Intelligent Robotics and Advanced  
Manufacturing, Fudan University, China

**Laser-Induced Functionalization of  
Flexible Polyimide-Carbon Fiber for Real-  
time Multimodal Physiological Monitoring  
of Chronic Wounds**

### **Kevin Kendall**

HydrogenUnited.org, UK

**Newton's Nanoparticles**

### **Celia Sofia de Almeida Maia**

Universidade da Beira Interior, Portugal

**Artificial Intelligence, BIM and Shape  
Grammars in Nano-Responsive  
Architectural Systems**

### **Décio Ferreira**

Instituto Superior de Engenharia do Porto,  
Portugal

**Artificial Intelligence, BIM and Shape  
Grammars in Nano-Responsive  
Architectural Systems**

### **Matthew David Ezema**

Visiting Researcher, Carleton University, Canada  
& Lecturer, Federal University, Oye-Ekiti, Nigeria

**Food-derived antioxidant peptides  
undergo oxidative transformations that  
may alter their function and safety**

### **Samar Ghopry**

Department of Physical Sciences, Jazan  
University, Saudi Arabia

**Plasmonic Nanostructures Based on  
Metallic and Non-Metallic Materials for  
Materials for Localized Surface Plasmon  
Resonance Sensing Applications**

### **Hajar Alghamdi**

Department of Pharmacy Practice, University of  
Hafr Albatin, Saudi Arabia

**Carbon Quantum Dots as Fluorescent  
Nanosensors for Determination of  
Temozolomide in Pharmaceutical  
Formulations**

### **Tahira Hoke**

Prince Sultan University, Saudi Arabia

**Human-Centered Nano-AI: Integrating  
Ethics, Emotional Intelligence, And  
Sustainability Beyond Performance**

### **Mohammed Al Bahri**

Department of Basic and Applied Sciences,  
A'Sharqiyah University, Oman,

**Engineering Thermally Stable Magnetic  
Skyrmions for Future Nanoscale Data  
Storage**

### **Nirmala Palayathan**

Department of Anatomy, Perdana University,  
Malaysia

**Selenium Nanoparticles in Reproductive  
Medicine: Bridging Nanotechnology and  
Fertility Therapeutics**



# **SPEAKER SLOTS AVAILABLE**

**Narasimha Golla**

Sri Venkateswara University, India

**Biosynthesis of Metallic Nanoparticles (MNPs) and their Applications in Agricultural and Environmental Sectors.**

**Bhanu Ranjan**

Department of Physics and Photonics Science, National Institute of Technology Hamirpur (NIT Hamirpur), India

**Pseudocapacitive Storage in Molybdenum Oxynitride Nanostructures Reactively Sputtered on Stainless-Steel Mesh towards an All-Solid-State Flexible Supercapacitor**

**Sonika Kodan**

Institute Instrumentation Centre, Indian Institute of Technology Roorkee (IIT Roorkee), India

**Heterointerface-Induced Charge Transfer Kinetics in Sputtered MoTe<sub>2</sub>-MoS<sub>2</sub> Nanocomposite for High-Performance Ambient NO<sub>2</sub> Detection**

**Mohammad Abrar War**

Department of Physics, National Institute of Technology Srinagar, India

**Electrochemical Behaviour and Bandgap Engineering of Microwave-Assisted Mn-Doped V<sub>2</sub>O<sub>5</sub> Nanorods for High-Performance Supercapacitors**

**Aabid Hussain Shaik**

Vellore Institute of Technology Vellore, India

**Copper-Graphene hybrid nanofluids for enhancing the heat transfer performance of double pipe heat exchanger**

**Hanmant M. Kasralikar**

Department of chemistry, India

**Synthesis of Bis-Pyrazole Derivatives using Highly Efficient Cu-NP/C-Nanoparticles Catalyst and Docking Study as Anti-Cancer Agents**

**D. S. Raghav**

Department of Applied Physics, MJP Rohilkhand University, India

**The Effect Of Pr Doping And Sintering Temperature On The Structural, Magnetic And Transport Properties Of La<sub>1-X</sub>-Yprycaxmno<sub>3</sub> (Y = 0.30, 0.35, 0.40; X = 0.40) Nanocrystals**

**Ashu Kumar**

Department of Mechanical Engineering, University of Petroleum and Energy Studies, India

**Parametric investigation into friction crush welding of dissimilar aluminium 5052 and magnesium AZ31 joint with zinc interlayer**

**Dinah Ann Varughese**

Dayananda Sagar University, India

**Optimization Strategies and Algorithms for Accelerating CNN on FPGA**

**Dr Bashir Ahmad Dar**

Department of Chemistry, Government Degree College Uri, India

**Reusable Clay-Cu Nano Catalysts: Green Routes To Key Organic Transformations**

**Nipun Neil**

Vikram Sarabhai Space Center, ISRO, India

**Development of a Sintered Wire Mesh Filter for Pyro-Valve Application**



# SPEAKER SLOTS AVAILABLE

**Vaishali Verma**

Dayananda Sagar University, India

**Breast Cancer Classification Using CNN–DenseNet Hybrid Model with LIME-based Explainability**

**Aarti R. Tayde**

Institute of Science, India

**Grouped Photon Quantum Key Distribution: An Improvised BB84 Protocol**

**K. Tamilselvan**

Department of Mathematics, Indian Institute of Information Technology, India

**A Picture Fuzzy Logic-Based Weighting Framework for Robust GNSS/INS Integration in Urban Environments**

**Dr. Vijay Sampat Mohite**

Department of Physics, Savitribai Phule Pune University, India

**First-Principles and Experimental Study on Structural, Electronic and Optical Properties of TiO<sub>2</sub>**

**Safi Abbas**

Department of Biosciences, India

**Nano-Biofortification of Vigna radiata Through Biogenic Selenium Nanoparticles: Insight into Nutrient Transport and Antioxidant Modulation**

**Mehar Fatma**

Department of Botany, Aligarh Muslim University, India

**Nano-Biofortification of Vigna radiata Through Biogenic Selenium Nanoparticles: Insight into Nutrient Transport and Antioxidant Modulation**

**Runjun Sarma**

Department of Physics, Haflong Government College, India

**Bio-Inspired Surface Coating for Enhancing Photocatalytic Performance of Iron Oxide Nanoparticles**

**Yukti Verma**

ICAR-IIHR, Hesaraghatta Lake Post, India

**Nanoparticle-Mediated Modulation of Growth and Metabolic Traits in Nanasaheb Purple Grapes Using Green-Synthesized Micronutrients Nanoparticles**

**Renu Kathpalia**

Department of Botany, University of Delhi, India

**Critical Perspectives on Green Nanotechnology for Antimicrobial Applications**

**Inderdeep Kaur**

Department of Botany, University of Delhi, India

**Role Of Nanotechnology In Age-Related Disorder Healthcare**

**Polisetty Sri Ram Chandra**

Department of Computer Science and Engineering, ADITYA University, India

**Leveraging Federated Learning for Real-Time Disaster Response Optimization in Smart Cities Using Multi-modal Sensor Data**

**Korrapati Narasimhulu**

National Institute Of Technology Warangal, India

**Green Synthesis Of Silver Nanoparticles Using Annona Muricata Leaf Extract: Characterization And In Vitro Anticancer, Antioxidant, And Antidiabetic Activities**



# SPEAKER SLOTS AVAILABLE

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**Shivangi Mishra J**

Department of Mathematics, Vel Tech Rangarajan  
Dr. Sagunthala R & D Institute of Science and  
Technology, India

**Neutrosophic Graph Neural Networks  
For Advanced Risk Prediction Of Disease  
Transmission In Healthcare Systems**

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**Dr Mini Mathew**

Amal Jyothi College Of Engineering, India

**Artificial Aggregates From M-Sand Dust,  
Fly Ash, Red Mud And Rice Husk Ash By  
Geopolymerization.**

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**Himabindu Mukthipudi**

Central University of Kashmir, India

**Addressing digital inequalities through  
inclusive cybersecurity frameworks**

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**Kaushik Sekaran**

Amity School of Engineering & Technology, Amity  
University, India

**PlantGuard AI: An IoT and Deep Learning-  
Based Framework for Smart Plant Disease  
Detection**

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**Keerthana J**

GSSS Institute of Engineering and Technology for  
Women, India

**Design, Development and Performance  
Analysis of  $1 \times 4$  Circular Microstrip Patch  
Antenna Array**

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**M.Kamaraju**

Department of ECE, Seshadri Rao Gudlavalleru  
Engineering College, India

**Neuro-Adaptive Vector Median Filtering  
Framework for High-Performance FPGA-  
Based Image Enhancement**

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**Avinash Kumar Singh**

Department of Civil Engineering, Indian Institute  
of Technology (Indian School of Mines), India

**Copper Slag-Based Hybrid Geopolymer  
for Sandy Soil Stabilization: Mechanical  
Performance and Life Cycle Assessment**

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**Rohit K. Ramakrishnan**

Indian Institute Of Science, India

**From Nanophotonics To Near-Earth  
Orbit: Building The Physical Layer Of The  
Quantum Internet**

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**Mayank Dutt Kaushik**

Institute- School of Arts and Aesthetics,  
Jawaharlal Nehru University, India

**WHEN THE FRAME BECOMES THE  
LAW: AI, VISUAL GRAMMAR AND THE  
GOVERNANCE OF THE IMAGE IN SOUTH  
ASIA**

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**Atul Lal Shrivastava**

Madan Mohan Malaviya University of  
Technology, INDIA

**BA-FLF: blockchain-assisted federated  
learning framework for secure and  
privacy-preserving agricultural IoT  
systems**

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**Sanasam Bimol**

Kamakhya Pemton College, India

**Artificial Intelligence Adoption Framework  
for Higher Education in Small States of  
India: A Context-Sensitive Conceptual  
Model**

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**SPEAKER SLOTS AVAILABLE**

**Patrick Yumnam**

Kamakhya Pemton College, India

**Integrating Computational Physics and Artificial Intelligence: Emerging Paradigms, Applications, and Future Directions**

**Reetesh Kumar**

Department of Biotechnology & Bioengineering,  
Galgotias University, INDIA

**Precision Vaccine Design Targeting The Prefusion State Of Viral Glycoproteins: Advances In Structural Vaccinology**

**Annasaheb V. Moholkar**

Department of Physics, Shivaji University, India

**Advancing Electrochemical Energy Conversion: Precision Engineering Of Metal Oxide And Hydroxide Nanostructures Via Hydrothermal Synthesis**

**Raj Kumar Gupta**

Sardar Vallabhbhai Patel College, A Constituent Unit of Veer Kunwar Singh University, India

**Enhancement of dielectric, flexibility, and thermal stability of barium titanate ( $\text{BaTiO}_3$ ) inbuilt polyethylene terephthalate**

**Ashwini Anshu**

Indian Institute of Science, India

**Au/Co nanospheres Integrated into an N-doped graphitic framework for Zn–Air Batteries**

**Rupali Ghosh**

Department of Biotechnology, School of Chemical and Life Sciences, India

**Nanoemulsion-Based Delivery of Pumpkin Seed Oil Reprograms the Tumour Secretome and Microenvironment to Enhance Anticancer Efficacy in Prostate Cancer**

**Kanchan Kumari**

Indian Institute of Technology Mandi, India

**Rational Engineering of Iron- and Manganese-Based Nanostructures for Biomedical Theranostic Applications**

**Azeez Abdullah Barzinjy**

Department of Physics, Soran University, Iraq

**Plant-Derived Nanomaterials for Sustainable Energy and Environmental Engineering**

**Tayser Sumer Gaazt**

Al-Mustaqbal University, Iraq

**Removal Of Mercury  $\text{Hg(II)}$  From Industrial Wastewater By Formation Of  $\text{Tio}_2/\text{Ag/Hnt}$  Nanocomposite Using Bio-Microwaved Synthesized  $\text{Tio}_2/\text{Ag}$  Nps (Core Shell)**

**Swarnajit Bhattacharya**

Dept. of Electrical and Computer Science Engineering (EECS), National Yang Ming Chiao Tung University (NYCU), Taiwan

**Decentralized Swarm Aware Internet of Things (IOT) protocol for real time crop quality prediction by Intelligent Autonomous Mobile Robots (IAMRs)**



**SPEAKER SLOTS AVAILABLE**

### **Shafee Ur Rehman**

Faculty of Medicine, Ala-Too International  
University, Kyrgyzstan

**Artificial Intelligence-Driven Multi-Omics  
Metabolic Profiling for Early Biomarker  
Discovery in Cancer, Neurodegenerative  
Disorders, and Diabetes**

### **Kongaha Waththage Dilan sanjeewa**

Road Development Authority, Sri Lanka

**Weathering-Induced Mineralogical  
Changes in Sri Lankan Hilly Terrain:  
Implications for Slope Stability and  
Sustainable Land Use**

### **Demet Özocaklı**

Gaziantep University, TÜRKİYE

**Can Artificial Intelligence Drive  
Sustainable Growth? Empirical Evidence  
on the AI-Energy-Growth Nexus in  
Advanced Economies**

### **Selma Erat**

Mersin University, Türkiye

**Nanotechnology in Cosmetic  
Formulations: The Role and Potential of  
Nanoemulsion-Based Delivery Systems**

### **Ilknur AtLli**

Department of Bioengineering, Çanakkale  
Onsekiz Mart University, Türkiye

**Development of Colon-Targeted Fe<sub>3</sub>O<sub>4</sub>-  
Loaded Alginate Hydrogel Beads  
Containing Brassica oleracea L. Extract  
and 5-Fluorouracil for Enhanced  
Anticancer Activity**

### **Alanur Çiftçi Şişman**

Department of Oral and Maxillofacial Surgery,  
University of Health Sciences, Türkiye

**Artificial Intelligence-Based Chatbot  
Assistance In Clinical Decision-Making  
For Medically Complex Patients In Oral  
Surgery: A Comparative Study**

### **Mehrali Qasimi**

Department of Database & Information system,  
Badakhshan University, Afghanistan

**Brain Tumor Detection with Transfer  
Learning Models Based on Attention  
Modules**

### **Mothusi Molebatsi**

Department of Chemistry, University of  
Botswana, Botswana

**Nanocellulose/MOF for the Removal of  
Cu(II) from Aqueous Solution: Response  
Surface Optimisation and Adsorption  
Kinetics**

### **Tasnim Al Dabbas**

Institute of Nanotechnology, Jordan University of  
Science and Technology, Jordan

**Nanofluidic Hydrogel Delivery Comsol  
Modelling Scaffold For Spinal Cord Tissue  
Regeneration**

### **Irun Jamil**

Department of Chemistry, University of Wah,  
Pakistan

**Sustainable Photocatalytic Degradation  
of Imidacloprid using a Ferrite-  
based Tungstate Nanocomposite for  
Environmental Remediation**



# **SPEAKER SLOTS AVAILABLE**

**Shahid Ali**

Department of Physics, University of Peshawar,  
Pakistan

**BNT/PVDF Fibers for Next-Generation  
Flexible Piezoelectric Energy Harvesting  
Devices**

**Willy Lazaro Komba**

Ruaha Catholic University, Tanzania

**Framework for Enhancing Historical and  
Assessment Literacy in Higher Learning  
Institutions: Insights from Tanzania**

**Florence Upendo Rashidi**

The University of Dodoma, Tanzania

**Evaluating the Impact of Fog on Free-  
Space Optical Communication Links in  
Mbeya and Morogoro, Tanzania**

**Ravil D. Mukhamedyarov**

Ural Optronics LLC, Russian Federation

**The Phenomenon of Absolute Ordering  
of Multiple Phases Solid Solution of  
 $\text{Cd}_x\text{Pb}_{1-x}\text{S}$  ( $x < 0.19$ ) as a Crystallization  
Process of Ultrapure Superstructural  
Compounds of  $\text{CdPbS}$  and Stoichiometric  
 $\text{PbS}$ -st.**

**Nahayo Pierre Claver**

GIZ – Circular Economy Advisor; EAC4 Nature  
and TAKIWAMA Projects (Burundi, Tanzania,  
Zambia, DRC), Burundi

**Waste-To-Energy Conversion in the City of  
Bukavu According to the Principles of the  
Circular Economy**

**Ziningi R. Myeni**

Durban University of Technology, South Africa

**Enzymatic Hydrolysis Of Pretreated Hemp  
Hurds Using Cellulase From Trichoderma  
Reesei Immobilised On Amine-  
Functionalised Magnetic Nanoparticles**

**Nkoana Ishmael Mongalo**

College of Agriculture and Environmental  
Sciences Laboratories, University of South Africa,  
South Africa

**Antimicrobial, Antioxidant, Anticancer, And  
Phytochemical Analysis Of South African  
Medicinal Plants Collected From The  
Senwabarwana Area, Limpopo Province**

**Mr. Seke Vangu Max**

Department of Physics and Technology,  
University of Kinshasa, Democratic Republic of  
Congo

**Impact Of Calcination Temperature On  
Particle Size Distribution Of Clays: A  
Comparative Analysis Using Rosin-  
Rammler, Lognormal, And Swebrec  
Models For Cement Production  
Optimization**

**Omar Boualam**

Sidi Mohamed Ben Abdellah University, Morocco

**Catalytic Oxidation of Aromatic Pollutants  
Using Modified Clay: Environmental  
Impact and By-Product Monitoring**

**Hajar El Yassini**

Ibn Tofail University, Morocco

**Thermal Transfer Numerical Analysis Of  
Lithium-Ion Battery With Air-Forced And  
Direct Liquid Cooling**



# SPEAKER SLOTS AVAILABLE

**FATIMA - ZAHRA FANDI**

University Hassan II, Morocco

**Quantitative Evaluation Of Pixel-Attribution Explainability For Deep Learning-Based Plant Disease Imaging**

**Ennabely Mohamed**

Bio-Geosciences and Materials Engineering Laboratory, Hassan II University of Casablanca, Morocco

**Electrolyte Effect on the Performance of Carbon Supercapacitor Electrodes Derived from Moroccan Argan Waste**

**Genet Tsegaye**

Addis Ababa Institute of Technology, Addis Ababa University, Ethiopia

**Magnetite-based pumice silica nanocomposite for lead adsorption from aqueous solution: The green synthesis approach**

**Raufu Khairat Adedoyin**

Ladoke Akintola University of Technology Ogbomoso, Nigeria

**Assessment of Nanotechnology Applications for Enhancing Indoor Air Quality in Residential Interiors**

**Josue Simbo**

Department of Soil, Jomo Kenyatta University of Agriculture and Technology, Kenya

**Modeling Land Management Impacts: Asymmetric Reductions of Sediment and Phosphorus Versus Legacy Nitrogen in the Enkare Narok Catchment in Kenya**

**Emmanuel Appiah**

Southwest University of Science and Technology (China) and Kumasi Technical University (Ghana)

**A novel long short-term memory-adaptive feedback-correction gain extended Kalman filter for the high-precision state-of-charge estimation of lithium-ion batteries**

**Parahat Matyakubova**

N/A

**A new Measuring instrument was developed for measuring the viscosity of liquids**

**Tesfay Gebreslassie**

N/A

**Biosynthesis of gold nanoparticles from Solanum marginatum and its enhanced anti-inflammatory activity in LPS induced RAW 264.7 cell lines**



**SPEAKER SLOTS AVAILABLE**

# GLIMPSES INTO OUR PAST CONFERENCES



# GLIMPSES INTO OUR PAST CONFERENCES



# GLIMPSES INTO OUR PAST CONFERENCES

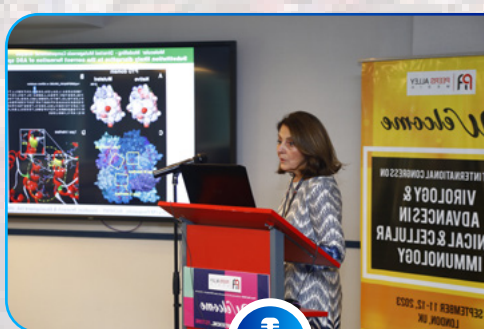




# HONORING DISTINGUISHED SPEAKERS @ OUR PAST CONFERENCES



# MEET THE PROFESSOR SESSIONS @ OUR PAST CONFERENCES



# YOUNG RESEARCHER SESSIONS

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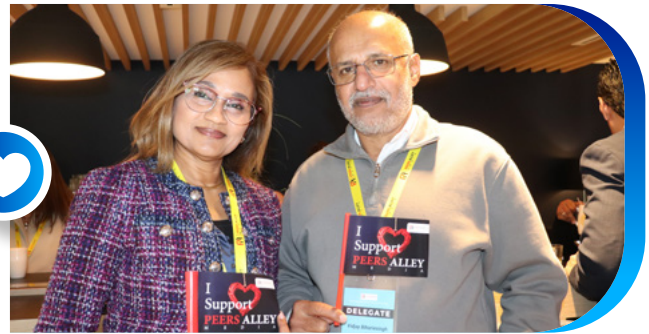
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# NETWORKING... CONFERENCING... FOSTERING

Attending a Conference isn't all  
about Learning and Networking

## DISCOVERING

A right choice of conference  
destination is an important aspect  
of any international conference and  
keeping that in consideration, **NanoX  
2026** is scheduled in the Beautiful city  
'AMSTERDAM'.

# AMSTERDAM

Amsterdam holds status as one of Europe's most dynamic, diverse, and globally connected cities. Known for its strength in commerce, finance, technology, education, culture, transportation, and sustainable urban innovation, Amsterdam consistently ranks among the most influential economic and cultural hubs in Europe. Arts, business, scientific research, higher education, creative industries, tourism, and international trade are all deeply shaped by the city's global outlook and progressive character.

In terms of economic performance, Amsterdam's metropolitan region is one of the largest and most competitive in Europe, contributing significantly to the national GDP of the Netherlands. It is a leading international financial center and a prominent base for multinational corporations and startups alike. The city is home to Euronext Amsterdam, one of Europe's key stock exchanges, and plays a central role in global trade and logistics through the nearby Port of Amsterdam and its strategic location within the Randstad region.

Amsterdam is also recognized as a major center for innovation, digital technology, and sustainability, attracting global investment and entrepreneurial talent. Amsterdam Airport Schiphol is among Europe's busiest airports, serving as a vital hub for international connectivity and commerce.



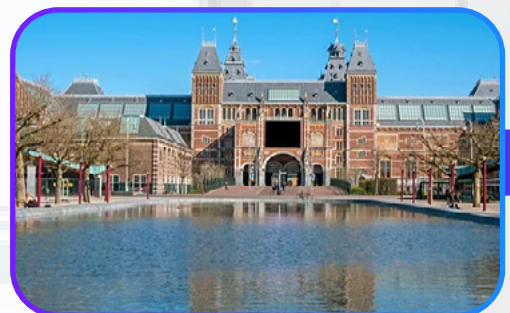
Amsterdam Central  
Station



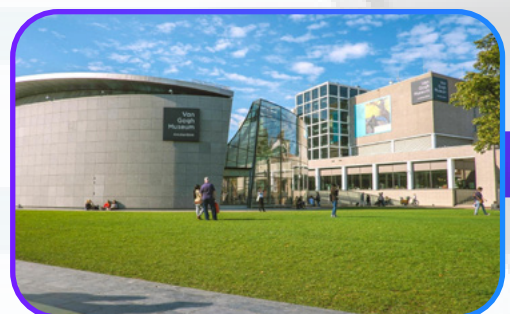
Anne Frank House



Herengracht



Rijksmuseum



Van Gogh Museum

# MUST-SEE DESTINATIONS IN AMSTERDAM



Skinny Bridge



Amstel River



Jordaan



Westerkerk



Amsterdam Canal  
Ring



Homomonument



Zaanse Schans



Amsterdam Red Light  
District



H'ART Museum

# NanoX 2026

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