Global Nanotechnology Network
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7th GLOBAL CONFERENCE ON

ADVANCED NANOTECHNOLOGY AND NANOMATERIALS

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

October 25 – 26, 2027

Budapest, Hungary



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.

02
02 Day Conference

12+
INNOVATIVE FEATURED SPEAKERS

20+
HOURS OF NETWORKING EVENTS

60+
INTERNATIONAL SPEAKERS

125+
EDUCATIONAL SESSIONS

WHO SHOULD ATTEND?

- Nanotechnology Professionals
- Materials Engineers
- Physicists and Chemists
- Metallurgists
- Geotechnical Engineers
- Biomedical Engineers
- Academicians and Students
- Policy Makers
- Clinical Investigators
- Industries, Entrepreneurs
- Materials Science Colleges
- Materials Companies
- Training Institutes Associations
- Chemical Companies
- Experts and Researcher in Chemistry
- Experts and Researchers in Materials Science
- Experts and Researchers in Nanotechnology
- Nanotechnology Companies

WELCOME MESSAGE



Jabari Mahiri, PhD

University of California, Berkeley, USA

Dear Distinguished Scholars and Colleagues,

I am honored to welcome you to the **7th Global Conference on Advanced Nanotechnology and Nanomaterials (NanoX 2027**), which will take place on **October 25-26, 2027** in **Budapest, Hungary**.

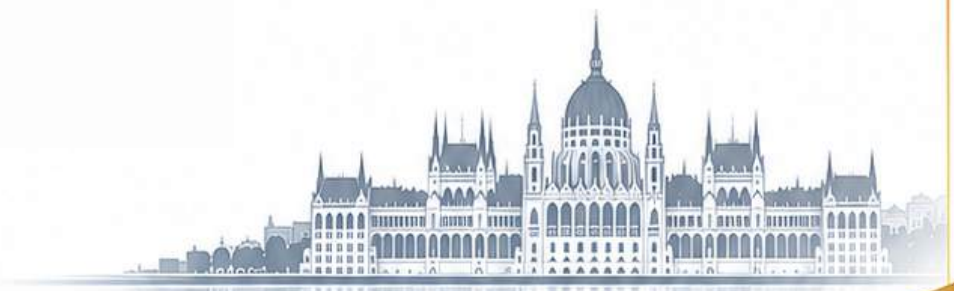
Extending across nearly every industry, nanotechnology and nanomaterials drive progress and crucially contribute to understanding and protecting our planetary ecosystem.

This conference features leading scientists, engineers, researchers, and professionals from around the world who will showcase their latest research and innovations in an exceptionally well organized, collegial conference venue.

It is an ideal opportunity to share and learn about cutting-edge scholarship, exchange ideas, and forge valuable collaborations.

I enthusiastically invite participants from across the fields of materials science, nanotechnology, chemistry, biology, and renewable energy to join a highly engaged and diverse group of leading experts to contribute to advancing nanotechnology and the use of nano materials in the historic and beautiful city of Budapest.

Sincerely,
Jabari Mahiri, PhD
University of California, Berkeley
USA



WELCOME MESSAGE



Kalyan Durbhakula

Ph.D. Ansys (part of Synopsys), Austin, TX, USA

Distinguished Delegates and Esteemed Colleagues,

It is my great honor and pleasure to welcome you to **7th Global Conference on Advanced Nanotechnology and Nanomaterials (NanoX 2027)**, scheduled for **October 25–26, 2027** in **Budapest, Hungary**, an international conference dedicated to advancing research, innovation, and technological developments in nanotechnology, nanomaterials, and nanoelectronics.

Nanotechnology continues to transform diverse sectors, including healthcare, electronics, robotics, energy, and defense. Among the many emerging materials, graphene and carbon nanotubes (CNTs) have attracted considerable attention because of their exceptional electrical, thermal, and frequency-dependent properties. Their unique characteristics offer exciting opportunities for next-generation electronic devices, sensing technologies, energy storage, high-frequency communication, and electromagnetic applications.

As semiconductor technology continues to advance toward increasingly smaller process nodes, understanding and engineering materials at the nanoscale have become more important than ever. By bridging fundamental physics with engineering applications, these computational approaches are helping researchers accelerate the design, analysis, and optimization of next-generation nanoelectronic devices.

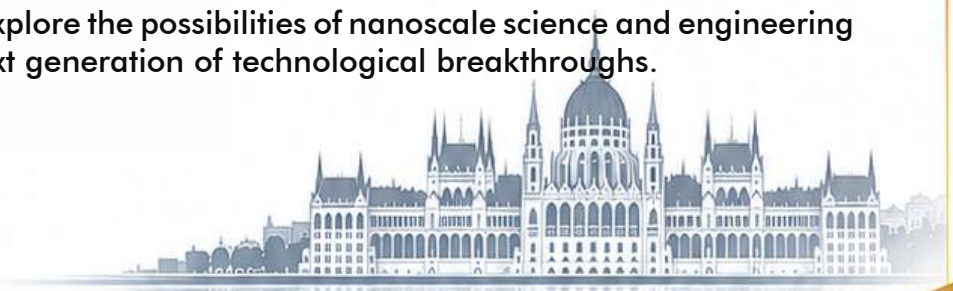
NanoX 2027 provides an excellent platform for researchers, scientists, engineers, and industry professionals to exchange ideas, present their latest findings, and explore emerging opportunities across nanotechnology and related disciplines.

We anticipate bringing together a diverse international community of academics, students, research institutions, and industry leaders. Your participation and contributions will be instrumental in fostering interdisciplinary collaborations, addressing current technological challenges, and identifying new directions for scientific discovery and industrial innovation.

I warmly invite all delegates to actively participate in the technical discussions, share their experiences, and establish collaborations that will help shape the future of nanotechnology and nanoelectronics.

Welcome to NanoX 2027! Let us explore the possibilities of nanoscale science and engineering and work together toward the next generation of technological breakthroughs.

Sincerely,
Kalyan Durbhakula,
Ph.D. Ansys (part of Synopsys)
Austin, TX, USA



WELCOME MESSAGE



Agustín Torres Rodríguez
National Autonomous University of Mexico, Mexico

Distinguished Delegates and Esteemed Scientific Community,

It is delighted to invite you to the **7th Global Conference on Advanced Nanotechnology and Nanomaterials (NanoX 2027)**, scheduled to take place in **Budapest, Hungary** a vibrant city, from **October 25-26, 2027**.

This conference provides a comprehensive platform to explore and discuss pressing global challenges and emerging opportunities in nanotechnology, showcasing how nanoscale science and innovation can overcome material limitations, increase energy efficiency, reduce environmental impact, and drive sustainable technological advancements, building on recent groundbreaking discoveries across multiple disciplines in this field.

World-renowned researchers, scientists, and industry engineers will present cutting-edge

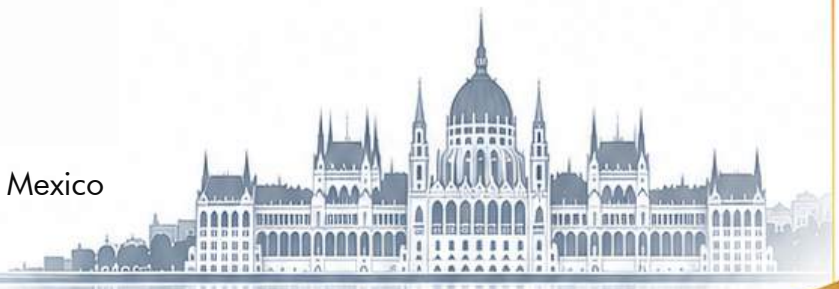
advancements in various fields, including nanotechnology, smart materials, advanced energy systems, nano drug delivery, and medical applications in cancer, urology, and nano polymers, over the course of two journeys.

Together as a united community, we will venture into uncharted territories in materials science and nanoscience, covering a wide range of areas, including next-generation nanoscale substrates, groundbreaking energy solutions, innovative medical and biomedical applications, optimized resource utilization, and pioneering industrial advancements.

This two-day event will bring together engineers, academics, students, research institutions, and industry leaders from around the world, united by a spirit of camaraderie, friendship, and respect, to share new knowledge across various nanotechnology research fields.

We are thrilled to host you in Budapest for two days of stimulating scientific presentations and groundbreaking conversations.

Warm regards,
Agustín Torres Rodríguez
National Autonomous University of Mexico, Mexico



WELCOME MESSAGE



Decio Ferreira

ISEP – Instituto Superior de Engenharia do Porto, Portugal

Dear Distinguished Delegates and Esteemed Colleagues and Friends,

It is a great pleasure and honor to welcome you to the 7th **Global Conference on Advanced Nanotechnology and Nanomaterials (NanoX 2027)**, which will take place from **October 25-26, 2027**, in the historic and vibrant city of **Budapest, Hungary**.

This conference offers an outstanding platform to share cutting-edge research and innovations in one of the most transformative scientific fields of our time. It is an ideal opportunity for the international community to come together, exchange ideas, build lasting collaborations, and connect with leading experts from around the world.

Nanotechnology and nanomaterials are not only a fascinating area of research but also a crucial driver of progress. Their impact reaches virtually every sector, from healthcare and energy to electronics, environmental protection, and advanced manufacturing, and they open promising career paths for scientists who engage with these technologies early on.

My own research is in the Architecture, Engineering, and Construction (AEC) industry, and I found it truly rewarding to share the room with researchers from so many other fields. Meeting them at this event made the experience far richer. Each conversation brought new findings, new learning paths, and new ways of seeing how ideas from different, but equally important, perspectives can be combined. It is precisely this mix of disciplines that makes the conference so valuable, and I encourage you to experience it for yourself.

Over two days, the program will bring together renowned experts for inspiring talks and discussions, alongside presentations of the latest findings by young researchers. We are confident that this combination of experience and fresh perspectives will create a true synergy of knowledge and innovation.

We anticipate a diverse and engaged audience of researchers, students, academics, industry professionals, policymakers, and healthcare specialists. Your active participation and contributions are key to the open, collaborative atmosphere we aim to foster.

I warmly invite you and your colleagues and peers worldwide to join us in Budapest. Your presence will contribute greatly to the success of this event and help advance every aspect of nanotechnology.

We look forward to welcoming you to Budapest for two days of scientific inspiration and groundbreaking discussions.

Sincerely,
Decio Ferreira
ISEP – Instituto Superior de
Engenharia do Porto, Portugal



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.

06

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.

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.

08

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.

ACADEMIC REGISTRATIONS

01

Speaker Registration

COMBO A
(Registration + 2 Night Accommodation)

COMBO B
(Registration + 3 Night Accommodation)

Delegate Registration

BUSINESS REGISTRATIONS

02

Speaker Registration

COMBO A
(Registration + 2 Night Accommodation)

COMBO B
(Registration + 3 Night Accommodation)

Delegate Registration



STUDENT REGISTRATIONS

03

Registration

YIF

COMBO A
(Registration + 2 Night Accommodation)

COMBO B
(Registration + 3 Night Accommodation)

Posters

ADDITIONAL REGISTRATIONS

04

Accompanying Person

E-Poster

Virtual Presentation

Workshops

Start-Ups

REGISTER & PARTICIPATE

NanoX 2027

CONCURRENT EDUCATIONAL SESSIONS

MONDAY - OCTOBER 25, 2027

- 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 26, 2027

- 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

GLIMPSES INTO

OUR PAST CONFERENCES









GLIMPSES INTO

OUR PAST CONFERENCES












GLIMPSES INTO

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HONORING DISTINGUISHED SPEAKERS

@ OUR PAST CONFERENCES



MEET THE PROFESSOR SESSIONS

@ OUR PAST CONFERENCES



























YOUNG RESEARCHER SESSIONS

@ OUR PAST CONFERENCES





BOOK LAUNCHES

@ OUR PAST CONFERENCES







WE LOVE & SUPPORT

NANOTECHNOLOGY CONFERENCES



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 2027** is scheduled in the Beautiful city 'Budapest'.

BUDAPEST

Budapest, the capital city of Hungary, is one of the most beautiful and historically rich destinations in Europe. Situated along the banks of the River Danube, the city is famous for its magnificent architecture, stunning bridges, thermal baths, and vibrant cultural atmosphere. Budapest was formed in 1873 through the unification of three historic towns: Buda, Pest, and Óbuda.

The city is divided into two main sides by the Danube River. Buda, located on the western bank, is known for its hills, historic castles, and peaceful surroundings. Pest, on the eastern bank, is famous for its lively streets, shopping areas, restaurants, and impressive landmarks. The iconic Chain Bridge connects these two sides and offers spectacular views, especially at night.

One of Budapest's most remarkable attractions is the Hungarian Parliament Building, an architectural masterpiece situated beside the Danube. Other popular landmarks include Buda Castle, Fisherman's Bastion, St. Stephen's Basilica, and Heroes' Square. Visitors can also enjoy relaxing experiences at the city's famous thermal baths, such as Széchenyi Thermal Bath. Budapest is also known for its rich cultural heritage, traditional Hungarian cuisine, beautiful music, and exciting nightlife. Popular local dishes include Goulash, Chicken Paprikash, and traditional Hungarian pastries.



Castel Sant'Angelo



Budapest Danube River Cruise



Gellért Hill



Heroes' Square



Fisherman's Bastion

MUST-SEE DESTINATIONS IN

BUDAPEST



Buda Castle



Citadel Liberty Statue



St. Stephen's Basilica



Great Market Hall



Great Synagogue



Vajdahunyad Castle



Hungarian Parliament Building



Hungarian State Opera House



Matthias Church

NanoX
2027

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https://www.nanotechconferences.com/

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