

CONFERENCE
PROGRAM



Joint Event

9th Edition of World

Nanotechnology Conference &

7th Edition of International Conference on

Materials Science and Engineering

28-30

Oct, 2024

Online Event

 **VIRTUAL:**
Eastern Time (ET)

DAY 01

Monday, October 28, 2024
(Virtual)

06:30-07:00	AV Check and Introduction
07:00-08:20, 14:20-15:40	Keynote Presentations
08:20-14:20	Oral Presentations

DAY 02

Tuesday, October 29, 2024
(Virtual)

06:30-07:00	AV Check
07:00-08:20, 13:30-16:30	Keynote Presentations
08:20-09:30	Poster Presentations
09:30-13:30	Oral Presentations

DAY 03

Wednesday, October 30, 2024
(Virtual)

06:30-07:00	AV Check
07:00-07:40, 13:00-14:20	Keynote Presentations
07:40-13:00, 14:20-14:40	Oral Presentations

Important Note

- The conference follows Eastern Time (ET) Virtual sessions.
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country
- The Virtual presentations will take place in Zoom meetings
- Please remain accessible on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.

DAY 1

VIRTUAL

OCTOBER 28, 2024

Monday

ET time

Local timings

06:30–07:00 | AV Check and Introduction

@ZOOM MEETING

KEYNOTE PRESENTATIONS

07:00–07:40

12:00–12:40

Robert Buenker,
University of Wuppertal, Germany

Title: The failure of both Einstein's space–time theory and his equivalence principle and their resolution by the uniform scaling method

07:40–08:20

12:40–13:20

Marek Nowicki
University of Wroclaw, Poland

Title: Porphyrin layers at metal–electrolyte interfaces monitored by EC–STM and CV

ORAL PRESENTATIONS

08:20–08:40

20:20–20:40

Musaab Ejaz,
Universiti Teknologi PETRONAS (UTP),
Malaysia

Title: Broadband sound attenuation of shape memory polymer with triangular–honeycomb unit cell metamaterial structural design

08:40–09:00

20:40–21:00

Liesel L. Estrella–Pajulas,
Silliman University, Philippines

Title: Development of panchromatic push–pull dyes for dye–sensitized solar cells using computational and experimental approach

09:00–09:20

14:00–14:20

Gabriel Beltran,
Aragon Institute of Technology, Spain

Title: Development of a digital engineering tool for estimating the impact of micro–defects on the mechanical response of 3D–printed filaments

09:20–09:40

15:20–15:40

Victor Ciupina,
Ovidius University of Constanta,
Romania

Title: Nitrogen–doped carbon/titan/carbon/aluminium/carbon/silicon thin films: Synthesis by TVA technology and characterization

09:40–10:00

15:40–16:00

Igor V Shevchenko,
M.P. Semenenko Institute of
Geochemistry, Mineralogy and Ore
Formation, Ukraine

Title: Structuring of water clusters under the solar influence and their copying by bulk water. Influence of the sun on the night side of the earth

ET time	Local timings		
10:00–10:20	15:00–15:20	Gunther Koller, koooco technology & consulting GmbH, Austria	Title: 44 years experience with fibre reinforces polyurethane railway sleepers
10:20–10:40	15:20–15:40	Zakia Hammou, University of Science and Technology of Oran, Algeria	Title: Effect of curvature on the dynamic behavior of carbon nanotube reinforced FGM shells
10:40–11:00	17:40–18:00	Michael Tribelsky, Lomonosov Moscow State University, Russian Federation	Title: The poynting vector field singularities
11:00–11:20	15:00–15:20	Amey Kossi Bollanigni, University of Lome/Formatech Institute, Togo	Title: Law of distribution of quantities of shells on Togolese Littoral
11:20–11:40	20:50–21:10	Sujit Kumar Bandyopdhyay, Meghnad Saha Institute of Technology, India	Title: Studies on multifunctional nanostructured materials
11:40–12:00	18:40–19:00	Osman Adiguzel, Firat University, Turkey	Title: Shape memory effect and diffusionless phase transformation in shape memory alloys
12:00–12:20	12:00–12:20	Iuliana Laura Calugaru, Industrial Waste Technology Center, Canada	Title: Half–charring of dolomite mineral for applications in the passive treatment of mining effluents
12:20–12:40	12:20–12:40	Valeriy A Buryachenko, Micromechanics & Composites LLC, United States	Title: Multiscale modeling of advanced heterogeneous materials
12:40–13:00	17:40–18:00	Martin Krus, Fraunhofer Institute for Building Physics, Germany	Title: Sustainable building material made from bulrush with numerous unique selling points
13:00–13:20	13:00–13:20	Hassan Nawaz, University of Pittsburgh, United States	Title: The art and science of metal–organic frameworks (MOFs): A journey from conventional to contemporary techniques
13:20–13:40	13:20–13:40	Robert Guidoin, Universite Laval, Canada	Title: Adverse events following transvaginal polypropylene mesh implantation to treat pelvic floor disorders: an explanatory study of explanted devices

ET time

Local timings

13:40–14:00

13:40–14:00

Raj Mukhopadhyay,
Carnegie Mellon University, United States

Title: Synthesis and characterization of modified mineral–biochar composite and its application for removing perfluorooctanoic acid from water

14:00–14:20

19:00–19:20

Imen Ksouri,
University of Sfax, Tunisia

Title: The impact of short and long term ageing in glycol water mixture on mechanical behavior of polyamide 6/glass fibers materials and recovery of properties after desorption process

KEYNOTE PRESENTATIONS

14:20–15:00

14:20–15:00

Will Skene,
Montreal University, Canada

Title: Color control of electrochromes by structural modification

15:00–15:40

12:00–12:40

Ephraim Suhir,
Portland State University, United States

Title: Failure oriented accelerated testing in electronics and photonics materials engineering: Types, roles, attributes, modeling

DAY 2

VIRTUAL

OCTOBER 29, 2024

Tuesday

ET time Local timings

06:30–07:00 | AV check

@ZOOM MEETING

KEYNOTE PRESENTATIONS

07:00–07:40 22:00–22:40

Raman Singh,
Monash University–Clayton Campus,
Australia

Title: Circumventing challenges in developing CVD graphene coating on mild steel: A disruptive approach to remarkable/durable corrosion resistance

07:40–08:20 14:40–15:20

Michael I Tribelsky,
Moscow State University, Russian
Federation

Title: Tailoring subwavelength scale electromagnetic field patterns with the help of nanoparticle

POSTER PRESENTATIONS

08:20–08:30 21:20–21:30

Sang Hyeon Im,
Dong Eui University, Korea, Republic
of

Title: A study on the demagnetizing factor of a hollow cylindrical magnetic materials

08:30–08:40 21:30–21:40

Sang Hyeon Im,
Dong Eui University, Korea,
Republic of

Title: A study on the effect of magnetic interaction between ferromagnetic materials using Preisach model

08:40–08:50 16:40–16:50

Tsisana Gavasheli,
Ivane Javakishvili Tbilisi State
University, Georgia

Title: Comparative study of the domain wall pinning in cobalt micropowders and nanowires by the two nuclear magnetic resonance methods

08:50–09:00 15:50–16:10

Kalinichenko Alexander,
Belarusian State Technological
University, Belarus

Title: Increasing the fatigue strength of aluminum alloy parts using composite coatings for aerospace engineering

09:00–09:10 16:00–16:10

Nuha Al Harbi,
Umm Al Qura University, Saudi Arabia

Title: Structural and optical properties of flexible polymer nanocomposites films for optoelectronics applications

09:10–09:20 15:10–15:20

Hassan Idriss Abaker Idriss,
Africa City of Technology (ACT), Sudan

Title: DFT calculation of ZnO iron doped optical and optoelectronic properties using quantum espresso

ET time Local timings

09:20–09:30 15:20–15:40

Tymoshok Nataly,
Zabolotny Institute of Microbiology
and Virology of the National Academy
of Sciences of Ukraine, Ukraine

Title: Selenium biotransformation into Nano–Se by probiotics

ORAL PRESENTATIONS

09:30–09:50 21:30–21:50

Vladimir G Chigrinov,
Hong Kong University of Science and
Technology, Hong Kong

Title: Azodye photoaligned nanolayers for liquid crystal: New trends

09:50–10:10 20:50–21:10

Wariya Nirachonkul,
Chiang Mai University, Thailand

Title: The enhanced cytotoxic effect of curcumin on leukemic stem cells via CD123–targeted nanoparticles

10:10–10:30 16:10–16:30

Andrey Belousov,
Kharkiv National Medical University,
Ukraine

Title: Efficiency of nanoparticles (Micromage–B) in the complex treatment of multiple sclerosis

10:30–10:50 16:30–16:50

Andrey Belousov,
Kharkiv National Medical University,
Ukraine

Title: Innovative method of nanotechnology application in the complex treatment of multiple sclerosis

10:50–11:10 15:50–16:10

Robert Buenker,
University of Wuppertal, Germany

Title: The failure of both einstein’s space–time theory and his equivalence principle and their resolution by the uniform scaling method

11:10–11:30 20:40–21:00

Sharda Sundaram Sanjay,
Ewing Christian College, An
Autonomous PG College of University
of Allahabad, India

Title: Specification of the surface of nanomaterials through functionalization

11:30–11:50 18:30–18:50

Delia Teresa Sponza,
Dokuz Eylul University, Turkey

Title: Photodegradation of endocrine disruptors namely methyl p–hydroxybenzoate and ethyl 4–hydroxybenzoate with N–doped BiOBr nanocomposite

11:50–12:10 16:50–17:10

Samuel Chisa Dike,
Rivers State University, Nigeria

Title: Deploying nanotech for sustainable energy transition in Nigeria

12:10–12:30 17:10–17:30

Sylwia Wcislik,
Kielce University of Technology,
Poland

Title: Effect of mono and hybrid nanofluids on contact angle and heat transfer rate

12:30–12:50 13:30–13:50

Viviane Pilla,
Federal University of Uberlândia UFU,
Brazil

Title: Photophysical evaluation of aqueous carbon dots synthesized from several raw materials for bioapplication

ET time

Local timings

12:50–13:10

12:50–13:10

Azzedine Bensalem,
Long Island University, United States

Title: Synthesis, characterization, and mechanical properties of nano metal-substituted hydroxyapatite and metal oxides/hydroxyapatite nanocomposites

13:10–13:30

11:10–11:30

Bahman Zohuri,
Galaxy Advanced Engineering, Mexico

Title: Nanotechnology in nuclear reactors: Innovations in fusion and fission power generation

KEYNOTE PRESENTATIONS

13:30–14:10

13:30–14:10

Thomas J Webster,
Interstellar Therapeutics, United States

Title: The impact of nanomedicine: 30,000 orthopedic nano implants with no failures and still counting

14:10–14:50

15:10–15:50

Paulo Cesar De Morais,
Catholic University of Brasilia, Brazil

Title: Logistic-modified mathematical model for tumor growth treated with nanosized cargo delivery system

14:50–16:30

14:50–15:30

Hossein Hosseinkhani,
Innovation Center for Advanced Technology, Matrix, Inc., United States

Title: Artificial Intelligence (AI) in biomedical engineering

DAY 3

VIRTUAL

OCTOBER 30, 2024

Wednesday

ET time

Local timings

06:30–07:00 | AV check

@ZOOM MEETING

KEYNOTE PRESENTATIONS

07:00–07:40

12:00–12:40

Rafal Kozubski,
Jagiellonian University in Krakow,
Poland

Title: Atomistic simulation of chemical ordering phenomena in nanostructured intermetallics

ORAL PRESENTATIONS

07:40–08:00

22:40–23:00

Saheli Biswas,
Commonwealth Scientific and
Industrial Research Organisation
(CSIRO), Australia

Title: Material challenges with proton conducting ceramics for intermediate temperature hydrogenation/dehydrogenation applications

08:00–08:20

22:00–22:20

Alexander S Gournik,
Institute of Automation and Control
Processes, Russian Federation

Title: Make experiments more efficient: Two simple and powerful approaches. Mg₂Si growth for photovoltaic and thermoelectric applications

08:20–08:40

20:20–20:40

Nasimuddin,
Institute for Infocomm Research,
Singapore

Title: Reconfigurable antenna structures using tunable materials

08:40–09:00

18:10–18:30

D R Patil,
North Maharashtra University, India

Title: (0, 1 and 2) Dimensional hybrid architecture of the synthesized materials leads the smart sensing of the gaseous species at low / room temperature

09:00–09:20

21:00–21:20

Lixiong Shao,
Shanghai Jiao Tong University, China

Title: Enhanced grain refinement, precipitates regulation and improved mechanical properties of cast Al–Li alloy by Ti addition and heat treatment

09:20–09:40

14:20–14:40

Babaghayou Meriam Imane,
Higher Normal School of Laghouat,
Algeria

Title: Exploring heterogeneity in the properties of monolayer LDPE greenhouse films under natural ageing

09:40–10:00

19:10–19:30

Ravi Kikar Sinha,
Unaffiliated Indian Researcher, India

Title: Decentralisation of power through use of portable nuclear machines without excretion

ET time

Local timings

10:00–10:20

17:00–17:20

I Engin Ture,

Anadolu Plasma Technology Center,
Turkey

Beycan Ibrahimoglu,

Anadolu Plasma Technology Center,
Turkey

Title: Examination of the p–T phase diagram of pure substances

10:20–10:40

15:20–15:40

Joanna Karasiewicz,

Adam Mickiewicz University Poznan,
Poland

Title: Organofunctional silicon compounds – Synthesis and application as anti-biocorrosion coating

11:00–11:20

20:00–20:20

Ludmila I. Kveglis,

Sarsen Amanjolov East Kazakhstan
University, Kazakhstan

Title: Study of electron–beam welding joints of steels 12Cr18Ni10Ti and 36NiCrTiAl on their structure and characteristics

11:20–11:40

18:50–19:10

Maryam Shokravi,

Energy Institute of Higher Education,
Iran (Islamic Republic of)

Title: Dynamic buckling of smart sandwich beam subjected to electric field based on hyperbolic piezoelectricity theory

11:40–12:00

11:40–12:00

Anis Rahman,

Applied Research & Photonics, Inc,
United States

Title: Nanotechnology and T-ray imaging for enabling a smarter AI and LLMs for medical diagnostics and other applications

12:00–12:20

17:00–17:20

Nacro Alioune,

Unicaen, France

Title: Multi–scale modeling and simulation of high–contrast composite materials : second–order gradient theory

12:20–12:40

17:20–17:40

Mohamed Abdelhedi,

Faculty of Sciences of Sfax, Tunisia

Title: Ultrasonic velocity as a novel geophysical method for high–quality aggregate exploration

12:40–13:00

18:40–19:00

Mohammad El Ilani,

Beirut Arab University, Lebanon

Title: Effect of impact load on posttension slabs reinforced with fiber Reinforced Polymers (RFP), using numerical analysis

KEYNOTE PRESENTATIONS

13:00–13:40

13:00–13:40

Hai Feng Ji,

Drexel University, United States

Title: Current and future of red and black phosphorus nanomaterials

13:40–14:20

13:40–14:20

Thomas J Webster,

Interstellar Therapeutics, United
States

Title: Introducing picotechnology: An exciting extension of nanotechnology

14:20–14:40

19:20–19:40

Sara Srebrenkoxa,
Goce Delcev University, North
Macedonia

Title: Procedure for making flat thermoplastic composite laminates by automated fiber placement and their mechanical properties

End of Day 3

- The conference follows Eastern Time (ET) Virtual sessions.
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*We wish to meet you again at our
upcoming events*

8th Edition of International Conference on
Materials Science and Engineering
March 10-12, 2025 | Rome, Italy | Hybrid Event
<https://magnusconferences.com/materials-science/>

10th Edition of
World Nanotechnology Conference
March 10-12, 2025 | Rome, Italy | Hybrid Event
<https://worldnanotechnologyconference.com/>

Questions? Contact

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