Global Materials Science Community and Network
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8TH EDITION OF

ADVANCED MATERIALS SCIENCE WORLD CONGRESS

MARCH 30-31, 2026 | ROME, ITALY

Theme: "Transforming Materials Science through Synergy and Sustainability: Bridging Research, Technology, and Industry"

ADV. MATERIALS SCIENCE 2026

SUB THEMES

- Pioneering the Circular Economy: Sustainable Material Innovations
- The Intersection of AI and Materials Science
- Advanced Materials in Healthcare: From Bench to Bedside
- Smart and Functional Materials
- Securing the Future: Advanced Materials in Defense and Security
- Electrifying Innovation: Materials for Energy Storage and Conversion
- The Policy Perspective: Regulatory Challenges and Opportunities

WHY TO ATTEND?

What you take

Attending a Materials Science conference offers a valuable opportunity to connect with experts, explore cutting-edge research, and discover sustainable innovations shaping the future of materials science and engineering. Whether you're from academia, industry, or research, you'll deepen your knowledge of advanced materials, nanotech, and composites, while gaining insight into real-world applications across various sectors. The event also fosters collaboration, professional growth, and global networking opportunities.

02
02 Day
Conference

12+
INNOVATIVE
FEATURED SPEAKERS

20+
HOURS OF
NETWORKING EVENTS

60+
INTERNATIONAL
SPEAKERS

125+
EDUCATIONAL
SESSIONS

WHO SHOULD ATTEND?

- Materials Engineers
- Materials Scientists
- Nanotechnologists
- Physicists and Chemists
- Metallurgists
- Geotechnical Engineers
- Biomedical Engineers
- Academicians and Students
- Policy Makers
- Industries
- Entrepreneurs
- Students
- Materials Science Colleges
- Materials Companies
- Nanotechnology Companies
- Training Institutes
- Associations
- Chemical Companies

Experts and Researchers (of Biotechnology, Physics, Materials Science, Nanotechnology, Biology, Environment, Medicine, Ceramics, Energy, Liquid Crystals, Plasma, Polymers Semiconductors)

GARY J. DICKELMAN

CEO, EPSScentral LLC, USA

Dear Colleague,

Face-to-face opportunities to collaborate with professors, researchers, scientists, engineers, and entrepreneurs from around the globe are exceedingly rare. Professionals in Advanced Materials Science and related fields will gather in Rome, Italy, March 30-31, 2026, for the 8th Edition of the Advanced Materials Science World Congress. This event offers a unique opportunity to collaborate with leading experts, exchange transformative insights, innovations, groundbreaking results, and visionary perspectives on the trajectory of advanced materials.

If your work involves 2D materials, quantum materials, advanced polymers, nanophotonics, AI/machine learning for materials discovery and R&D, fusion reactor materials, biomaterials, medicine, textiles, innovative construction materials, sustainability, or even cognitive and neuroscience that influence advanced materials innovation, Rome is your essential destination next March. You will present your research, share findings, and engage in dynamic and productive peer-to-peer discussions. Imagine the "AHA!" moments you will experience firsthand!

The need for global collaboration has never been greater. Your participation will contribute significantly to shaping a narrative with immense, positive impacts on this rapidly evolving field.

As a speaker and participant in the 2025 World Congress, I found it one of the most satisfying and stimulating professional experiences of my long career. Participating in the 8th Edition of the Advanced Materials Science World Congress will be among your most impactful professional decisions—a further opportunity to significantly advance this critical field.

Non vediamo l'ora di avervi con noi a Roma!

Warm regards,

Gary J. Dickelman
CEO, EPSScentral LLC, USA

WEIZHONG DAI

Louisiana Tech University, USA

As an invited speaker in the "7th Edition of the Advanced Materials Science World Congress" on March 24-25, 2025 in London UK, I was very impressed by the conference. It brought together researchers, scientists, academicians, and industry professionals from all over the world (including Algeria, Austria, Azerbaijan, Brazil, Bulgaria, Canada, China, France, Georgia, Germany, India, Italy, Portugal, Spain, Tajikistan, Ukraine, Uruguay, USA, and many other countries) to foster knowledge sharing, idea exchange, and exploration of the latest advancements in the challenging field of advanced materials. I am deeply grateful for the conference organization for the excellent event. I applaud the conference organization for their continuous efforts to hold the "8th Edition of the Advanced Materials Science World Congress", scheduled in March 2026 in the enchanting city of Rome, Italy. For all those who are passionately dedicated to the field of advanced materials, I highly recommend you to participate the forthcoming 8th Edition World Congress and provide your insights that contribute to your research work and the development of ground-breaking advancements.

I hope to see you in Rome, Italy.

Weizhong Dai
Louisiana Tech University, USA

NINO CHACHAVA

Georgian Technical University, Georgia

Distinguished guests, esteemed scholars, researchers, and industry professionals,

It is a great honor to welcome you all to the Advanced Materials Science World Congress 2026. This esteemed event serves as a multidisciplinary platform where professionals from different fields converge to share their knowledge, exchange experiences, and foster collaborations that will drive innovative ideas in future.

Throughout this conference, we will explore groundbreaking advancements in materials science, bridging the gap between research, industry, and education. The innovative methods and cutting-edge projects presented by the speakers span across various domains—ranging from business-driven applications to investigative research, ultimately influencing and shaping the future of education. These discussions will help academicians, decision makers address new challenges and evolving demands in the respective fields while enhancing academic programs to meet the needs of tomorrow's cities, Architecture, Design, etc.

One of the most remarkable aspects of this congress is the dynamic synergy between leading scholars, academicians, and practitioners. Together, we form a strong alliance, ensuring that the knowledge and expertise shared here transcend beyond these sessions and into real-world applications.

This conference is not only a platform for knowledge dissemination but also a catalyst for economic development across multiple industries. By fostering new collaborations and supporting innovative ideas, we collectively contribute to the growth of scientific research, sustainable technological advancements, and the expansion of business opportunities.

As we embark on this exciting journey in 2026, let us seize this opportunity to showcase our work, engage in meaningful discussions, and lay the foundation for future scientific and industrial clusters. I encourage you all to connect, collaborate, and innovate—because it is through our combined efforts that we can truly push the boundaries of materials science and its applications.

Once again, welcome to the Advanced Materials Science World Congress 2026! Let's make this event a milestone in the advancement of our field.

Thank you!
Nino Chachava
Georgian Technical University, Georgia

UNIVERSIDAD DE LA REPÚBLICA URUGUAY

BENIGNO RODRÍGUEZ DÍAZ

Facultad de Ingeniería
Universidad de la República, Montevideo, Uruguay

Dear Colleagues,

Last 24-25 March, 2025 we have had the "7th Edition of the Advanced Materials Science World Congress", in London, UK. It was a fantastic Congress, with the assistance of distiguished researchers from all the globe. It was an incredible opportunity to listen, see and ask about the advances in different research areas related to materials. It had an excellent organization and unique atmosphere of cooperation among this very diverse team of colleagues.

The next March 30-31, 2026, in Rome, Italy, the "8th Edition of Advanced Materials Science World Congress" will take place, I think this is an event that you should not lose. This represents a great opportunity for transversal contact between different areas of research related to the science of materials.

See you in Rome!

Dr.-Ing. Benigno Rodríguez Díaz
Facultad de Ingeniería, Universidad de la República
Montevideo, Uruguay

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)

02

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.

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

04

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.

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

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

ADV. MATERIALS SCIENCE 2026

CONCURRENT
EDUCATIONAL SESSIONS

MONDAY - MARCH 30, 2026

- Materials Science and Engineering
- Nanomaterials and Nanotechnology

- Polymer Science and Technology
- Surface Science and
- Engineering

GROUP PHOTO | COFFEE BREAK

- Smart Materials and Applications
- Energy Materials

- Computational Materials Science
- Crystallography

LUNCH BREAK

- Advanced Materials and Nanotechnology
- Biomaterials and Medical Devices

- Materials Physics
- Materials Chemistry

GROUP PHOTO | COFFEE BREAK

- Ceramic Materials
- Composite Materials
- Carbon and 2D Materials

- Glass Science and Engineering
- Graphene Technology
- Green Technologies

CONCURRENT
EDUCATIONAL SESSIONS

TUESDAY - MARCH 31, 2026

- Materials Synthesis And Processing
- Materials Characterization
- Condensed matter physics

- Theory And Modeling
- Optics
- Artificial Intelligence
- Robotics

GROUP PHOTO | COFFEE BREAK

- Metals and Alloys
- Bioinspired materials and Systems
- Synthesis and Catalysis

- Mineralogy
- Chemistry
- Semiconductors
- Biocatalysis

LUNCH BREAK

- Metallurgical and Materials Engineering
- Topological Insulators
- Energy Production and Storage

- Electronics and Photonics
- Electronic, Optical and Magnetic Materials
- Nanostructured and Structural Materials

GROUP PHOTO | COFFEE BREAK

- Perovskites
- Materials Informatics
- Selective Laser Sintering
- Metamaterials

- Dichalcogenides
- Advances In Dielectric,
- Piezoelectric Materials and Electronic Devices

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8TH EDITION

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ROME, ITALY

https://www.materialsscienceconference.com/

Featured Speakers	Presentation Titles
Gary J. Dickelman EPSScentral LLC, USA	**On an Optimal AI Framework for Materials Research, Discovery, and Application**
Christopher L. Hale North Carolina A&T State University, USA	**Influence of Differential Speed Rolling and Post Annealing on the Microstructure and Mechanical Properties of Mg-based Alloys**
Svitlana Fialkova North Carolina A&T State University, USA	**Understanding Corrosion Resistance in Magnesium Alloys: Insights from Scanning Kelvin Probe Force Microscopy**
Afsaneh Rabiei North Carolina State University, USA	**Advanced Lightweight Materials for Future Energy Efficiency**
Ebenezer Fanijo Georgia Institute of Technology, USA	**Assessment of Corrosion Onset in Low-Carbon Steel under Chloride Exposure**
Chance M. Glenn Alabama A&M University, USA	**Overcoming the Negative Energy Density Requirement in the Alcubierre Warp Drive Metric Using a Complex Dielectric Media**
Karen K. Leonas North Carolina State University, USA	**Toward Sustainable Dyeing: Achieving Targeted Shades and Fastness through Chemical and Technological Integration**
Kumud S. Altmayer University of Arkansas at Little Rock, USA	**BI-LSTM Enhanced Learning Based Outage Performance Analysis for Aerial Reconfigurable Intelligent Surface Assisted Communication Systems**
Stefalo N.N. Acha North Carolina A&T State University, USA	**Photonic Quantum Telecommunication for Multi-Agent Systems: Free-Space Links, Topologies, and Fidelity under Noise**

SPEAKER SLOTS AVAILABLE

S. A. K. V. M. Piyathilake Colorado State University, USA	**Degradation and Nano-Scale Structural Evolution of Geopolymers: Effect of Temperature, Stress and Mine Process Solutions**
Debendra K. Das University of Alaska Fairbanks, USA	**Performance Evaluation of Hydronic Air Coil for Building Heating with Nanofluids of Varying Concentrations Via Theoretical Analysis and Experimental Characterization**
Saurabh Aggarwal Autodesk Inc, USA	**TF-ViS-CvC: an automated Transforming Vision based Cervical Cancer Screening with Pap Smear Analysis**
Martin Schmal Federal University of Rio de Janeiro, Brazil	**The Cu-ZrO2@SiO2 core-shell and CeZr/ MWCNT , SBA-15 catalyst for the CO2 hydrogenation into methanol and DME**
M. A. M. Maciel Federal University of Rio Grande do Norte, Brazil	**Co-encapsulation of copaiba oil and trans-dehydrocrotonin into self-nanoemulsifying drug delivery system: formulation, physicochemical characterizations, and antioxidant in vitro effect**
Weli Cristina Bessi dos Santos Veterinary Hematology Hemoclinic, Brazil	**Use of Mesenchymal Stem Cells in a Dog with Bone Marrow Hypoplasia: Case Report**
Klaudia Kowalska Maria Curie-Sklodowska University, Poland	**Comparison of mechanochemical synthesis and co-precipitation to obtain composites of yellow clay,hydroxyapatite and Clitoria Ternatea L..**
Wei Shao Warsaw University of Technology, Poland	**Effect of Ag on the precipitation stability in Al-Mg-Si-Ag alloy: First-principles calculations, Calphad modeling and experimental validation**
Otacilio José Moreira Universidade Federal Fluminense, Brazil	**Hospital Logistics 4.0: How AI and Blockchain Optimized Delivery Times - a Case Study**
Fernando Cruz de Moraes Federal University of São Carlos, Brazil	**Smart materials based semiconductors to be used in photo-electrocatalysis for environmental applications**
Leandro Neves de Assis Military Fire Brigade of the Federal District, Brazil	**Experimental study of the burning pattern in a fire**
Arthur Adeodato State University of Rio de Janeiro, Polytechnique Institute, Brazil	**Smart Materials For Energy Harvesting**

SPEAKER SLOTS AVAILABLE

Luiz Carlos Branquinho Caixeta Ferreira Federal Institute of Education, Brazil	**Wireless Communication Protocols for the IoT -How to Choose the Best Option**
Fernando Luiz Martinechen Beghetto Federal University of Technology, Brazil	**Dynamic Analyses (Modal and Forced Vibration) in a Railway Vehicle Model with 25 Degrees of Freedom**
Carla Winter Afonso Universidade Católica de Petrópolis, Brazil	**Proposal for an Optimized Model for Customer Satisfaction**
Fábio dos Santos Borges FISEPE Faculty, Brazil	**Brazilian Endolaser: Subdermal Laser Technique with Fiber Optic that Evolved from Serious Injuries and Sequelae to Impactful Aesthetic Results.**
Maximilian Georg Rösgen MITO Consulting, Germany	**Introducing MITO: A framework to align (material) business and innovation**
Juergen Lademann Charité Berlin, Germany	**The Skin as a Reflection of Our Lifestyle**
Carlos Alberto Guerrero-Fajardo Universidad Nacional de Colombia, Colombia	**Pea Pod Valorization: Exploring the Influence of Biomass/Water Ratio, Particle Size, Stirring, and Catalysts on Chemical Platforms and Biochar Production**
Carlos Vargas Hernandez Universidad Nacional de Colombia, Colombia	**SERS Effect of Genomic DNA by ZnO Microrods C. Vargas-Hernández**
Miguel Angel Gómez Aristizábal Universidad Nacional de Colombia, Colombia	**Study of the Synthesis, Dispersion, and Theoretical-Experimental Analysis of Multiple-Wall Carbon Nanotubes in Portland Cement to Improve the Corrosion Resistance of Embedded Steel**
Simona Perone Istat and Sapienza University of Rome, Italy	**Blockchain and Artificial Intelligence: The New Frontiers of Sustainability How Emerging Technologies Can Revolutionize Advanced Materials Demand and Verification in the Sustainability Landscape)**
Maria Amata Garito UNINETTUNO International Telematic University, Italy	**New Models of University for the Digital Society**
Angela Balzotti University of Study “Aldo Moro”, Italy	**From Multimodal Interaction to Human–AI Co-evolution: The Role of ChatGPT in Education and Creativity**

Indira Velázquez López University of Medical Sciences of Holguin, Cuba	**Artificial Intelligence in Postoperative Follow-Up of Esophageal Atresia: Clinical Perspectives from Pediatric Surgery**
Lucía de la Vega Encinas Pontifical University of Salamanca, Spain	**LumiSign: AI- Powered Solutions to Break Communication Barriers**
Yeshica Isela Ormeño Ayala Universidad Nacional de San Antonio Abad del Cusco, Peru	**An Efficient Automatic Classification Hybrid Model to Identify Images of Commercial Starchy Corn**
Julio Ramirez-Castellanos Univ. Complutense, Spain	**Microstructure and luminescent properties of nano-oxides derived from Zn2GeO4**
Felipe Vico Bondía Universitat Politècnica de València, Spain	**Fast Optimization–Fabrication Workflow for GRIN and Metamaterial Lenses Across 10–100 GHz**
Rosa M. de la Cruz Universidad Carlos III de Madrid, Spain	**Pseudo disorder effects on optical and electrical properties in GaAs nanowires array**
Konstantin Zsukovszki Wigner Research Centre for Physics, Hungary	**Ionization Dynamics in Matter with Resonant Nanoantennas Irradiated by Intense Laser Shots**
Dariusz Jacek Jakóbczak Koszalin University of Technology, Poland	**Reconstruction of Multidimensional Data on Intelligent Technology and Artificial Intelligence**
Lucjan Kozielski University of Silesia in Katowice, Poland	**Recent advances in lead-free ceramics materials for energy storage**
Narine Duegaryan Yerevan State University, Armenia	**Synthesis And Investigation of Some Conductive Polymers on the Base of Aromatic Diamines**
Stefan Lucian Toma Gheorghe Asachi Technical University of Iasi, Romania	**Fabrication and characterization of a Cu-based high-entropy composite coating with enhanced antifriction and wear resistance**
Orestis Ioannidis Aristotle University of Thessaloniki, Greece	**Use of indocyanine green fluorescence imaging in the extrahepatic biliary tract surgery**
Mariela Gómez Castañeda Centro de Ingeniería y Desarrollo Industrial, Mexico	**Influence of the parameters of the topological optimization method: Rejection and Admission of Sequential Elements in the design of metamaterials**

SPEAKER SLOTS AVAILABLE

Arturo Gómez-Ortega SECIHTI-Centro de Ingeniería y Desarrollo Industrial, Mexico	**Lightweight spur gears with cellular cores: Design, Simulation, and Validation through Additive Manufacturing**
Miriam Vázquez Universidad Michoacana de San Nicolás de Hidalgo, Mexico	**Structural and Modal Analysis of a Small Wind Turbine Blade Considering Composite Material**
José Murillo Centro de Investigación en Materiales Avanzados, Mexico	**Visualization and Parameters Determination of Supersonic Flows in Convergent-Divergent Micro-Nozzles Using Schlieren Z-Type Technique**
Alfredo C. Benítez-Rojas Instituto Politécnico Nacional, Mexico	**Recent Biotechnological Applications of Whey: Review and Perspectives**
Ines Carolina Ortega Portilla SECIHTI-Centro de Ingeniería y Desarrollo Industrial, Mexico	**Effect of thermal and thermochemical treatment on complex AlSi10Mg structures fabricated by laser powder bed fusion (LPBF)**
Hrishikesh Patil College of Engineering, University of Guelph, Canada	**Advances in Protein-Polysaccharide Nanocomplex Materials for Sustainable Food Applications**
Rasool Akhtar Alias Osama The University of Edinburgh, UK	**Doped ZnO as a Functional Material for NextGeneration Optoelectronic and Energy Devices**
Estevan Gomez Universidad de las Fuerzas Armadas-ESPE, Ecuador	**Neural Network-Driven Smart Materials Management for Resilient Urban Infrastructure: A Deep Learning Approach to Predictive Maintenance**
Ahad Janahmadov Azerbaijan National Academy of Aviation, Azerbaijan	**Synergetics of Fracture and Evolution of Interrelationship With Multi-Level Self-Organizing Processes in Material Destruction**
Igor Chyzh National Technical University of Ukraine, Ukraine	**Calculation of RMS radiuses of the Point Spread Function using Zernike Fringe Coefficients**
Orest M. Ivasishin G.V.Kurdyumov Institute for Metal Physics, Ukraine	**In Situ Ti_6Al_4V/TiB Composites Prepared by Hydrogen-Assisted Sintering of Blends Containing TiH_2**
V.G. Plekhanov Fonoriton Science Lab., Garon Ltd, Estonia	**Isotope - Based Materials Science**

SPEAKER SLOTS AVAILABLE

Aigul Myrzabekovna Aksupova Kyrgyz State Technical University under I.Razzakov, Russia	**Results of pilot interlaboratory comparisons in the field of nutritional value measurements of powdered milk**
Valery Ya. Rudyak Novosibirsk State University of Architecture and Civil Engineering, Russia	**Electrical conductivity of nanofluids with carbon nanotubes**
Remsh Nasser Alqahtani King Saud University, Saudi Arabia	**Female Computer Teachers Training by the (TAWOCK) Model**
Maram GHAEB Dar Al-Hekma University, Saudi Arabia	**A sustainable approach to enhance the mechanical properties of cement with spent coffee grounds**
Shunkichi Ueno Nihon University, Japan	**Formation Mechanism of Ultra-High-Melting-Point Oxide Eutectic Films**
Adjmi Chahd Rahyl King Fahd University of Petroleum and Minerals, Saudi Arabia	**Design And Simulation of A Metamaterial-Based Microstrip Antenna For Defect Detection In Composite And Metallic Materials**
Shuhaida Yahud Universiti Malaysia Perlis, Malaysia	**Electrospun PVDF Membranes with GO and GNP Fillers: Bead Formation and Fiber Morphology Study**
Alexander Trubayev National Technical University, Ukraine	**Analysis of Elevator Structures Taking Into Account Technological Deviations**
Zeyad Muhammad Abdulhamid Abdulfattah Khalifa University, United Arab Emirate	**$MoS_2/ZnFe_2O_4$ Nanocomposites: A New Approach to Improve Ion/Charge Transfer in Supercapacitors**
Omar Chaalal Abu Dhabi University, United Arab Emirates	**Global Green Process for Methanol Production**
Yoshiharu Uchimoto Kyoto University, Japan	**Development of ultra-high-capacity cathode materials for all-solid-state fluoride batteries**
Hoi-Sing Kwo The Hong Kong University of Science and Technology, Hong Kong	**Recent Progress in Ferroelectric Liquid Crystals and Applications to AR/VR**

Tsogbayar Dashdendev Hanyang University, South Korea	**Multimodal Double-Helix Fiber Sensor for Independent Pressure and Strain Detection in Wearable Sensory Applications**
Garam Lee Seoul National University, Korea	**Soft–Rigid Hybrid Robotic Glove with Electroadhesive Clutch for Low-Power Stiffness Modulation in Post-Stroke Hand Therapy**
Huanwen Chen Jiangxi University of Chinese Medicine, China	**Charged Water Radical Clusters as the Soft Nanomaterial for Energy, Chemistry, Medicine and Life Sciences**
Joshua Liyungu Lusaka Zambia and Southeast University, China	**Multi-Objective Optimization of Rubberized Concrete: Balancing Strength, Cost, and Sustainability Across Cement Grades**
Al-Olfi Shaema Ali Abdullah School of Economic and Management University of Science and Technology Beijing, China	**The Impact of Sustainable Supply Chain Strategies on E-Commerce Consumer Purchasing Behavior: Considering the Moderating Effect of Big Data Analytics**
Shujaat Ali Tianjin University, China	**A Component-Count Reduced Seven-Level ANPC Inverter via a Novel Switched Submodule Leg**
Olexander Ushenko Zhejiang University, China	**Newest Methods of Laser Diagnostics of the Polycrystalline Component of Biological Layers of Soft Matter**
Muhammad Hamza Nanjing University Of Science and Technology, China	**First-principles insights into X_2MgS_4 (X= Pm, Pr)spinels for energy harvesting and spintronic applications**
Asma Said Khamis Al Kharusi Universiti Sains Malaysia, Oman	**Comparative Assessment of Membrane Separation and Cryogenic Distillation for Propane/Propylene: A Multi-Objective Process Intensification Approach**
Dorsa Motalebi Lulea university of Technology, Sweden	**Melt flow mechanisms in dual-spot laser welding of asymmetric T-joints with wire feed**
Kumaragewatthage Ramodh Devshan Fernando National University of Singapore, Singapore	**Impact of Annealing on The Performance of Next-Gen Ru Interconnects**
Indra Neel Pulidindi Saveetha Institute of Medical and Technical Sciences Deemed University, India	**Catalysis for biomass conversion**

Gaurav Verma Academy of Scientific and Innovative Research, India	**Effect of NaOH and Graphene Oxide on Jute Composite I Section Beam**
Gyan Ranjan Biswal Veer Surendra Sai University of Technology, India	**Smart Materials – Smarter World: Enhancing Data Security without Compromising Data Rate using Self-sustained Power Sources**
Swapna Paul Caritas College of Pharmacy, India	**Formulation and Evaluation of Natural Anti- Acne Gel Using Silver Nanoparticles With Herbal Extract**
Melsa Magdalene Fernandes,Sharlene Anna Pereira Christ (Deemed to be University), India	**Efficient Intrusion Detection through Class Balancing and Feature Selection: A Case Study with SVM**
Shradhaa Narayan Krishnadevaraya College Of Dental Sciences, India	**The effect of kinesio taping After impacted 3rd molar surgery - A randomised control trial.**
Gangaram Mandaloi Rewa Engineering College, India	**Next-Gen ISF: Feature-Guided Deformation and Hybrid Machining Techniques**
Jayakumar S Sri Manakula Vinayagar Engineering College, India	**Enhancing the Mechanical Performance of Recycled Aggregate Concrete: The Synergistic Effects of Micro Titanium Dioxide and Steel Fibres**
Nav Deepak Exide Energy Solutions ltd., India	**Synergistic Interaction of Siloxene and Polyaniline Nanocomposite for High Performance Supercapacitor Electrodes**
Neelam Rawat Uttarakhand Space Applications Centre (USAC), India	**Naulas of Uttarakhand: Geo-Cultural Water Harvesting Structures as Sustainable Green Technologies in the Central Himalayas**
Ruba Palanivelu SASTRA Deemed University, India	**Effect of Fire and Cooling on RC Columns Strengthened using BFRP based BFEFC Materials**
R. A. Kalaivani Vels Institute of Science Technology & Advanced Studies, India	**Design and fabrication of Punica granatum peel-derived NSCQD/ Iron hexacyanoferrate ternary composite for simultaneous detection of ascorbic acid, uric acid, and resorcinol**
Avinash Sharma [illegible]	**Spontaneous formation, gene regulation of trichoderma and slow decomposition in**

M. Archana Annamalai University, India	**Automatic Play-Field Analyzing and Player Tracking in Broadcast Tennis Video using Improved Kalman Filter**
Pedda Naraiah Rairala Brilliant Institute of Engineering and Technology, India	**GNSS Multipath Error Analysis Based on Improved CEEMDAN and Detrended Fluctuation Analysis**
Dr. Avtar Singh Lovely Professional University, India	**From Waste to Win: Assessing Biodegradable Sportswear's Role in Sustainability and Athlete Performance**
K. Sushruth Samson Kumar Chaitanya Bharathi Institute of Technology, India	**Co-Teacher - A Tool Used for Learning Using LLMs**
Shubhangi Indian Institute of Technology (BHU), India	**Smart Deployable Stacked MOFs as Environmental Pollutant Sensors**
Sanjay Kumar S M SJB Institute of Technology, India	**Thermal Analysis of Aluminium Graphite Composite Heatsink**
Aditya Agrawal Prestige Institute of Engineering Management & Research Indore, India	**Enhancing Recycled Concrete Aggregate (RCA) Concrete Performance Using Jute Fiber as a Sustainable Reinforcement**
Subhranil Das UPES, Dehradun, India	**Advancements in Face Recognition Using Deep Learning Techniques: Methods and Advantages**
Mohammed S. S. Abu-Jafar An-Najah N. University, Palestine	**Extensive DFT study of FeMnCrGe quaternary Heusler alloy: structural, elastic, magnetic, optical and thermoelectric properties**
Deepanshu Kaneria Indian Institute of Technology Roorkee, India	**Tailoring Interstitial Oxygen-Mediated Ionic Conductivity in Mo-Doped $K_2ZnV2O7$: A Promising Solid Oxide Electrolyte**
N.M.Mary Sindhuja Kamaraj College of Engineering & Technology, India	**Design and Analysis of Next Generation RF MEMS Phase Shifters for 5G Phased Array Antennas**
Richa Sharma Galgotias College of Engineering & Technology, India	**High-Gain Compact Circular RFID Antenna for TV White Space Band Using FR4 Substrate: A Material-Conscious Approach to UHF Innovation**

Kalaiselvi Aasaithambi JSS Academy of Higher Education & Research (Deemed to Be University), India	**Anti-neoplastic Activity of Selected Essential Oil (EO)–Loaded in Niosomes Against HepG2 and YAC-1 Cells: An In Vitro Study**
Prasanta Dhak Techno India University, India	**Charge-Mediated Stable Low-Valence Cu on TiO2 for Photocatalytic $CO2_2$ to-Ethylene Production**
Sanjay Kumar S M SJB Institute of Technology, India	**Thermal Analysis of Aluminium Graphite Composite Heatsink**
Prashant C. Ramteke G. B. Pant DSEU Okhla-III Campus, India	**Fuzzy Logic Control for Adaptive Fan Speed Regulation Based on Temperature Variations in Cold, Warm, and Hot Seasons**
Baneesh Patial Dr. B R Ambedkar National Institute of Technology, India	**Hydrothermal Synthesis of $BiVO_2$–TiO_2 Type II Heterojunction for Enhanced Sunlight-Driven Degradation of Tetracycline Hydrochloride**
Soumya M.D. Amrita Vishwa Vidyapeetham, India	**Knowledge Representation of students across diverse learning contexts**
Ujwal. M. S Dayananda Sagar College of Engineering, India	**Artificial Neural Network Modeling of Compressive Strength with Egg Shell Powder Incorporated Sustainable Concrete**
Aditya Singh InstituteAmrita Vishwa Vidyapeetham, India	**Need for Smart and Adaptive Materials for FutureProof Infrastructure**
Dinesh Bhatia Jawaharlal Nehru Government Engineering College Sundernagar, India	**TOPSIS-Taguchi optimization of treated coir geotextile based on shear interface behaviour for road pavement application**
Zeena Flavia D'souza St Aloysius (Deemed to be University), India	**Artificial Intelligence in Teaching: Revolutionizing Education Amidst Key Challenges**
Ramesh Vasan BITS Pilani, India	**All-Inorganic QLEDs Utilizing Resonant Energy Transfer Between Non-Stoichiometric Nickel Oxide Hole Transport Layer and Alloyed CdSe/ZnS Quantum Dots**

V.Manonmani Sri Balaji Chockalingam Engineering College, India	**Development of Porous Biocarbon from Waste Wild Jack Husk for Enhanced EMI Shielding and Mechanical Performance in Wheat Straw Microfiber-Reinforced Vinyl Ester Composites**
Animesh Ghosh Ashoka University, India	**Critical Minerals in a Multipolar World: India's Strategic Response to Global Supply Challenges**
Siamkhanthang Neihsial Dhanamanjuri University, India	**First-Principles Insights into Borocarbonitride Anodes for Sodium-Ion Energy Storage**
Alok Upadhyay Dr. Bhimrao Ambedkar University, India	**Electronic, Structural and Optical Properties of Magnesium Based Perovskite Chalcogenides [MgZrS3]**
Bandana Kumari All India Institute of Medical Sciences, India	**Cellular Stress Response: Molecular Mechanisms and Clinical Implications**
Abdul Razak Mohamed School of Planning and Architecture, India	**Green Mobility and Peri - Urban Digital Economic Community - A Case of Hyderabad, India**
SVAR Sastry Harcourt Butler Technical University, India	**Innovative 2D Nanomaterial-based Bio-Lubricant Additives for Improved Efficiency and Environmental Sustainability in Automotive Applications**
Megha Thilak Indian Institute of Technology Madras,India	**Assessment of a Gradient damage plasticity model to predict the behavior of composite beam-tocolumn junctions**
Rekha Singh Rasecotech india Pvt. Ltd, India	**MOPSO-driven optimization for sustainable retrofitting: balancing time, cost, and environmental impacts**
Shaun Kinnes Parliament of South Africa, South Africa	**Reimaging Peacebuilding on the African Continent: AI an Alternative to Strengthening Institutional Capacities and Conflict Mitigation**
Md. Khairul Islam Bangladesh Atomic Energy Commission, Bangladesh	**Photoelectric effect in collective process of dusty plasmas**

Riana Ayu Kusumadewi Universitas Indonesia, Indonesia	**Comparative Evaluation of Commercial and Waste-Derived Organic Adsorbents for Efficient Dissolved Organic Matter Removal in Sustainable Water Treatment**
Hari Mohan Meena Hansraj College, India	**Graphene oxide/goethite-chitosan composite for the optimization of arsenic (III) adsorption from polluted aqueous solutions**
Muhammad Mujiburohman Universitas Muhammadiyah Surakarta, Indonesia	**Modeling and simulation of continuous fixed adsorptive distillation with adsorbent regeneration using thermal desorption**
Shaimaa Elsayed Elhusseiny British University, Egypt	**From Design to Strength: Comparative Insights into CAD/CAM Composite and Lithium Disilicate Restorations**
Hossam Mohamed AbdElRahman Misr International University, Egypt	**Next Generation compact 3D-Printed Prosthetic Arm Using AI customized Dataset**
Azeez A. Barzinjy Soran University, Iraq	**Green Nanoparticle Synthesis for Wastewater Treatment**
Masoud Muhammed Hassan University of Zakho, Iraq	**Bayesian deep learning applied to diabetic retinopathy with uncertainty quantification**
Bakhtiar A. Karim Sulaimani Polytechnic University, Iraq	**Low-complexity AOA estimation for FMCW radar using projection-based subspace approximation**
Khder Hussein Rasul Salahaddin University-Erbil, Iraq	**Novel and recurrent mutations in exon 8 of natural killer group 2D (NKG2D) gene among chronic myeloid leukemia patients and their potential role in pathogenesis**
Asmaa Ali Sadoon University of Arkansas, Iraq	**Diffusive Dynamics of Biological Macromolecules in the Cytoplasm of Live Bacteria**
Baze Ahmed Mohammed University of Knowledge, Iraq	**Public Health Risks Associated with Antibiotic Residues in Raw Milk: A Study from Erbil, Kurdistan**
Hyung-Ho Park Yonsei University, Korea	**Hybrid of F-doped SnO_2 Aerogel and Pt Nanoclusters for High-Efficiency Hydrogen Evolution**

Claris Siyamayambo University of Johannesburg (SAMRC/UJ), South Africa	**Factors associated with sexually transmitted infection literacy among men who have sex with men and transgender people in Soweto: A machine learning approach**
Mohammad Afzal Hossain Talukder Ministry of Education, Bangladesh	**Electrostatic Dust Modes in Magnetized Dusty Plasma with Crucial Condition of Dust Lower Hybrid Mode**
Hafiza Parkar University of Pretoria, South Africa	**Bioprinted Acellular Dermal Scaffolds: A Novel Approach for Secondary Intention Wound Healing**
Christina Johanna (Christa) van Staden University of the Free State, South Africa	**Generative artificial intelligence tools (GenAIs): Friends or foes in classrooms?**
V. F. Mitin National Academy of Sciences of Ukraine, Ukraine	**Surface morphology, electrical and optical properties of completely compensated single-crystal Ge-on-GaAs films with two-dimension Coulomb disorder**
Ramazan Erenler Tokat Gaziosmanpasa University	**Phytochemistry of Campaluna lactiflora: Quantitative analysis of bioactive compounds, synthesis and characterisation of silver nanoparticles, investigation of their biological activities**
Razia Tariq Khan University of Peshawar	**Ex-situ Synthesis of B4C and MgAl2O4 incorporated Waste Polystyrene (wPS) Composites with Improved Thermal and Mechanical Properties**
Ayoub BELAFKIH Universite Hassan II de Casablanca	**Innovative Low-Carbon Hydraulic Road Binders from Industrial Waste: Performance and Sustainability**
EDOUMA FILS Prosper University of Ebolowa-Cameroon	**Assessment of GHG emissions in ciment plan using GA-Gaussian modeling and CO_2 reduction via alternative raw materials.**
Jamal Uddin Ahamed University of Chittagong	**Engineering Ultrahigh Resistivity and Low-Loss NiZn Ferrites via Mo^{+6} Doping for Next-Generation High-Frequency Devices**
Darshani Asha Madarasinghe University of Moratuwa	**Coir Fibre Reinforced Ceiling Board Development with Overview of Mechanical, Thermal, and Physical Aspects**

Taki Tajwar Chittagong University of Engineering and Technology (CUET)	**Enhancing Self-Healing and Plastic Shrinkage Reduction in Superabsorbent Polymer (SAP) Concrete: Synergistic Effects of Micro-silica and Fly Ash**
Hicham CHBIHI KADDOURI Moulay Ismail University	**Exploring the Corporate Sustainability Reporting Trends: A Bibliometric Analysis Using Clarivate's WoS Database Between 2014–2025**
Syed Ahmad Zafar Virtual University of Pakistan	**Sensitive Detection and Imaging of Microplastics in Packaged Water using a Computer-Based Microscopy Technique**
Ranasinghe Arachchige Erandi Imasha Centre for Defence Research and Development	**Formulation And Evaluation of a Sustainable Aerosol-Based Bird (Pigeon) Repellent Incorporating Natural Compounds**
Emmanuel NGAHA Yıldız Technical University	**Kinetics and thermodynamics study on thiamethoxam adsorption onto TiO 2 and perlite supported TiO 2**
Uzair Saeed The University of Faisalabad	**Distinguishing Parkinsons Disease and Essential Tremors by Using Machine Learning**
Amar Arab Université de Bouira	**U-Pb zircon geochronology and P-T evolution of high grade Metapelites from the Tamanrasset area (Central Hoggar, Algeria**
Dawood Ahmed Desai Tshwane University of Technology	**Prediction of thermal bending and vibration of a bright steel turbine rotor**
Ahmed Mourtada Elseman Central Metallurgical Research and Development Institute (CMRDI)	**Sustainable Recycling of Spent Lead-Acid Batteries into Perovskite Thin Films via Inkjet Printing for Solar Energy**
Hersh F Mahmood University of Halabja	**Eco-Friendly Concrete Solutions the Role of Natural and Recycled Liquid Admixtures in Sustainable Construction**
Susan Sharma Kathmandu University	**Phytochemicals screening, antimicrobial activities and statistical validation of bioactive compounds of Morella rubra Sieb.et Zucc**

SPEAKER SLOTS AVAILABLE

Mohammad Eskandarinasab Siahkoohi Islamic Azad University	**Quantum-Leap Decarbonization of Steel: SelfHealing Microstructures, Plasma Catalysis & Blockchain-Embedded Circularity**
Kanhaiya Bhayana Thapar Institute of Engineering and Technology	**Adverse Weather Object Detection Using Customized YOLO Models**
Mann Elate Lea Mbassi Yves University of Yaounde	**Positive effect of Cu2+ and Ca2+ on the thermostability of Bambara groundnut peroxidase A6, and its catalytic efficiency toward the oxidation of 3,3,5,5 -tetramethyl benzidine**
Tesfaye Feyisa Adama Science and Technology University	**Near Infrared Thermal Emitter Based On Nano Scale Grating Metamaterial For ThermoPhotovoltaic Power Generation**
Meriem Tantaoui Hassan II University	**Assessment of Pseudo-Random Number Generator Influence on Dosimetric Parameters for Linac Head Simulation in GATE/GEANT4**
Habib Mohamad Tarbiat Modares University	**ONLINE and multi-objective trajectory planner for robotic systems**
Higus Gidey Welegebreal Mekelle University	**Optimization of banana fiber treatment parameters for improved textile performance**
Haile Tadelle Abadi Aksum University	**Challenges and opportunities in construction waste management in Shire Town, Northern Ethiopia**
Ahmed Ibrahim Yuya Addis Ababa University	**Impact of Maize-Legume Intercropping Systems on Fall Armyworm, Spodoptera frugiperda (J.E. Smith) Infestation Levels and Natural Enemy Complex**
Brhanu Teka Gebrezgabher Mekelle University	**Production and characterization of charcoal briquettes from sesame stalks as an alternative energy source**
Shipra Banik Independent University	**Simulation-Based Assessment of Confidence Intervals for the Population Coefficient of Variation**
Serap Yeşilkır Baydar Istanbul Gelisim University	**Green Co-Precipitation Synthesis of ZnO Nanoparticles Using Cynara scolymus Extract: Optical, Morphological, and Apoptosis-Related Molecular Insights**

Omonigho Benedict OTANOCHA Federal University of Petroleum Resources Effurun	**Optimising Carbon Fibre Composites for High-Pressure Hydrogen Storage in Vehicles**
Narges Nobakht Institute for Research in Fundamental Sciences	**Application of Two-dimensional metal organic framework materials in Li-ion batteries**
Francis O. Nwawuru Chukwuemeka Odumegwu Ojukwu University	**An accelerated Stochastic Optimization Algorithm with Applications to Material Informatics**
Ahmed MANNI Hassan II University of Casablanca	**Sustainable portland cement: Leveraging volcanic tephra as a clinker alternative using Box-Behnken Design for comprehensive mechanical, and durability assessment**
Ajoy Paul Bangladesh University of Engineering & Technology	**Role of Rainfall Infiltration and Hydraulic Conductivity in Slope Stability**
Joseph Agaroghenefuoma ERHO Niger Delta University	**Theoretical Perspective to the Juggling Sequence Rotation Performance Pattern from System Memory Locality Reference Viewpoint**
Mostapha Karaoui University Moulay Ismail	**On the physico-chemical properties of injection-molded polypropylene reinforced with spent coffee ground**
Bonaventure C. Ugwuanyi Enugu State University of Science and Technology	**Microstructural Evolution of A356 Alloy Subjected to Different Heat Treatment Regimes**
Ghoson Danhash Wadi International University	**Structural Assessment and Retrofit of a Bulgarian Heritage Building: The Dimitar Nenov House-Museum**
Zainab Hassan University of the Punjab Lahore	**Confronting Challenges in Technological Development Within Sustainable Leather Manufacturing: Barriers and Routes**
Mohammed Abdulkareem Abdullah Alkamel Al-Qalam University for Humanities and Applied Sciences	**Utilizing an Adaptable Artificial Intelligence Writing Tool (ChatGPT) to Enhance Academic Writing Skills among Yemeni University EFL Students**

SPEAKER SLOTS AVAILABLE

Melaku Tafese Awulachew Ethiopian Institute of Agricultural Research (EIAR)	**Transforming Ethiopian Food Systems for Sustainable and Nutritious Diets**
Ezeh Marian Isioma Delta State University, Nigeria	**Effect of Zinc Oxide (Zno) Morphology on Laali, Zobo And Tomatoes Dyes for The Fabrication of Dye Sensitized Solar Cell for Light Harvesting Application**
Charles Kwame Bandoh University of Energy and Natural Resources	**Gd-doped ZnO-g-C 3 N 4 nanocomposite: a novel photocatalyst for the photodegradation of eosin yellow dye in water**
Mohsin Ali Raza University of the Punjab	**Comparative study of carbon nanomaterials-based polymer composites as adhesives for thermal interface applications**
Kefyialew Tilahun Ejegue Bahir Dar University	**Evaluating the erodibility of soils (k value) of Aba gerima and Guder watersheds using simulated rainfall**
Chigozie Francolins Uzoh Hamburg University of Technology	**Climate-Resilient Bio-based Flow Improvers for Waxy Petroleum Crude**
Lena Yoh Ekaney Elango University of Buea	**Preliminary Characterisation of the Thaumatococcus daniellii fruit as a Potential Biomass Source for Biorefinery**
Salma Shad The University of Haripur	**Biogenically Synthesized Bimetallic Doped CuO Nanoparticles: A Multifunctional Nanoenzyme for Breast Cancer Therapy and Biomedical Applications**
Toha François LIHONOU University of N'zerekore	**Analysis of Heat and Mass Transfer in MHD Forced Convection w ith Chemical Parameters Effects on a horizontal Porous Plate**
BOUROUINA Anfal LCSI Laboratory	**DDPG-PER for an IRS-Aided Secure Wireless Communication**
Esma Nur Gecer Tokat Gaziosmanpasa University	**Phytochemical Profiling and Biological Activity Evaluation of Centaurea stapfiana**
Gary J. Dickelman EPSScentral LLC, USA	**On an Optimal AI Framework for Materials Research, Discovery, and Application**

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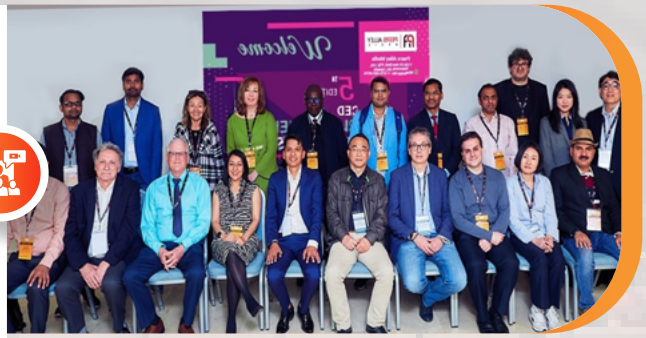

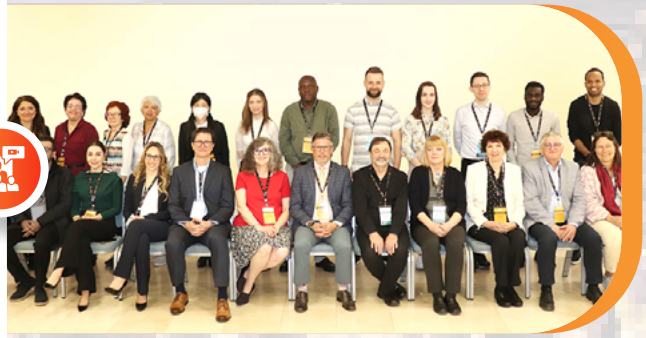

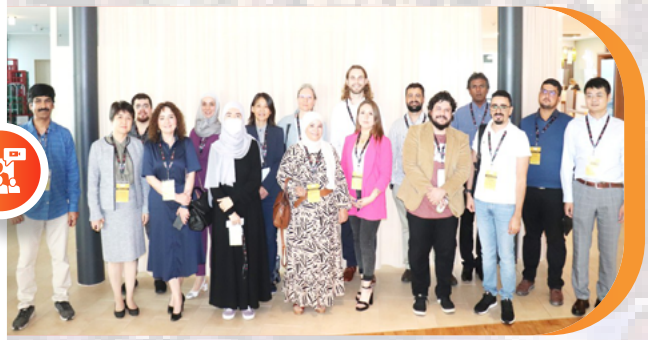
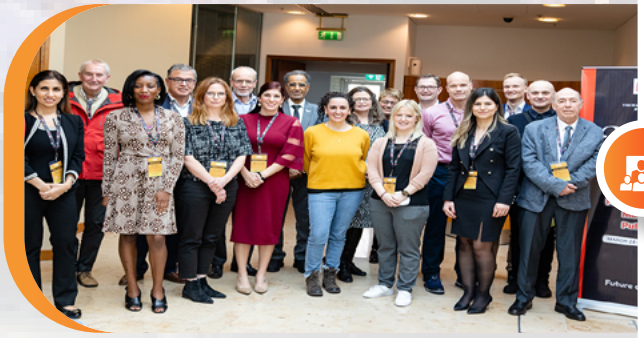
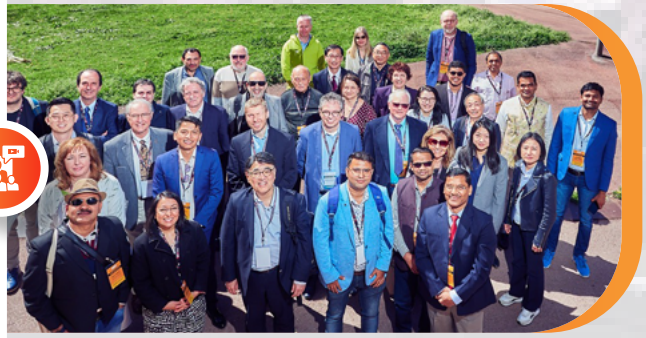

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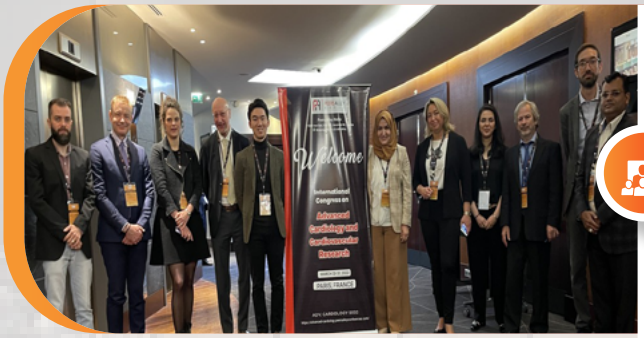

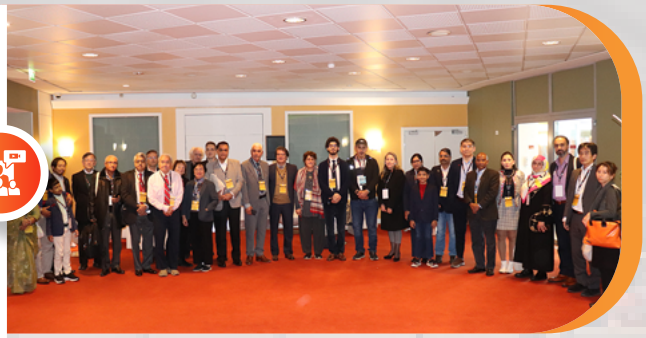

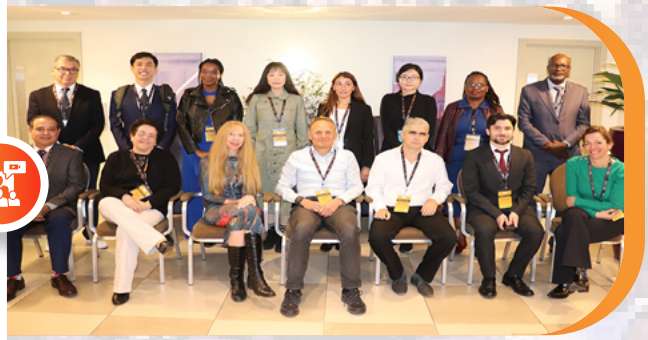

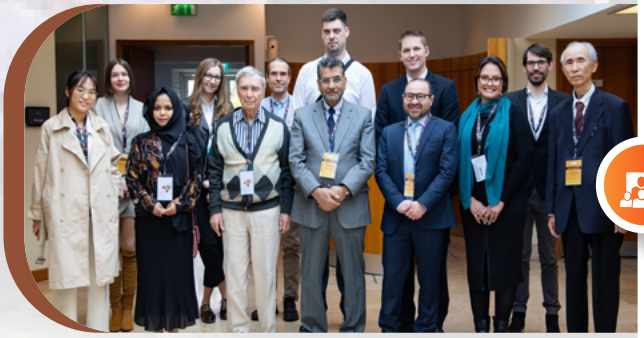

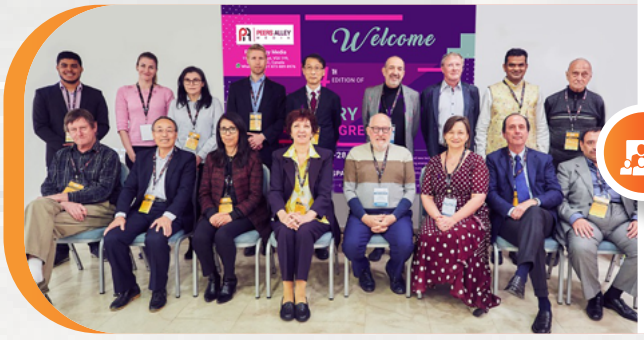

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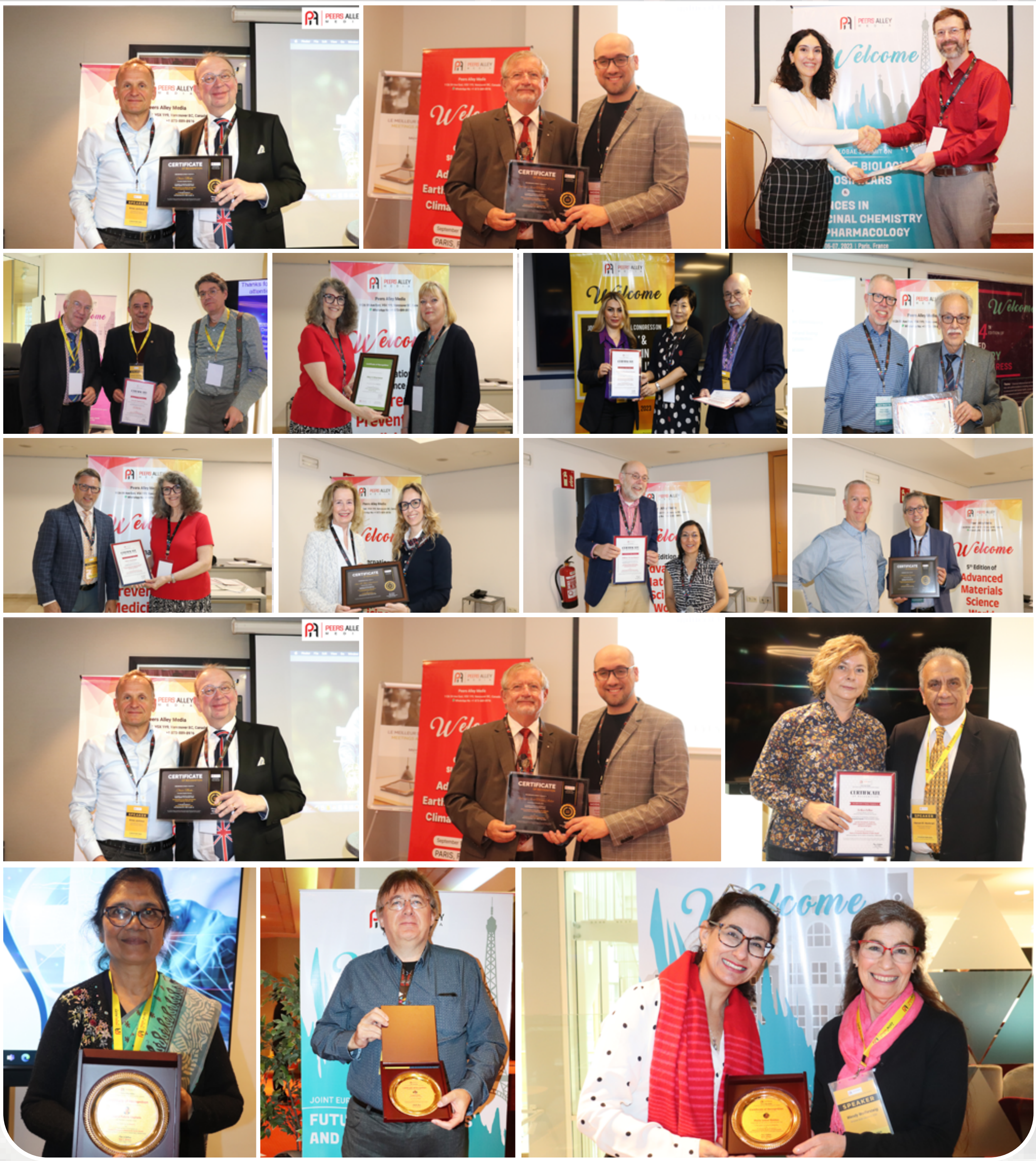

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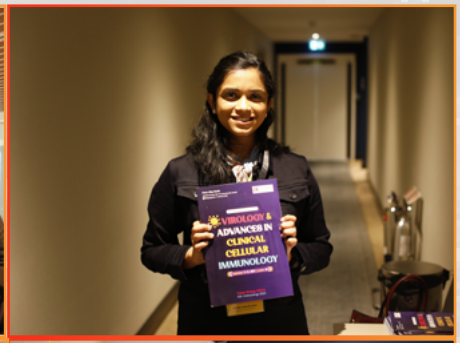
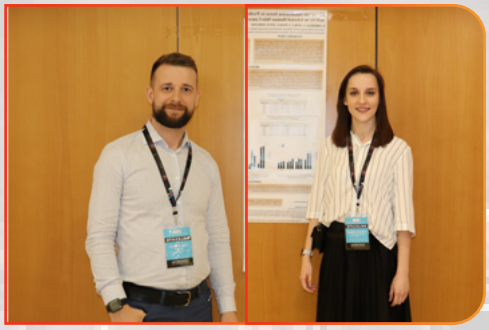
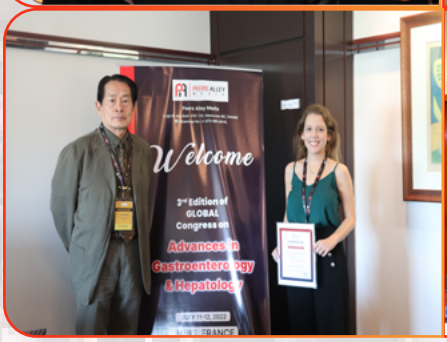

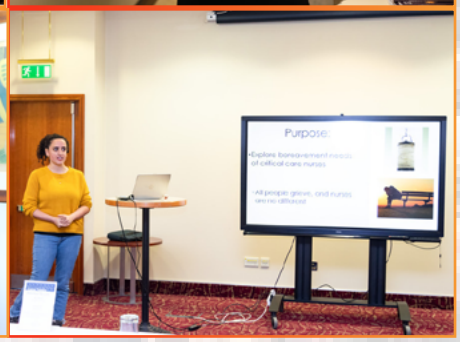

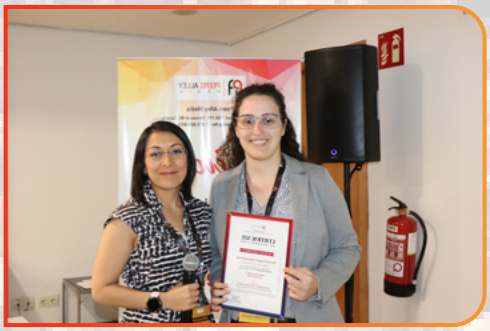

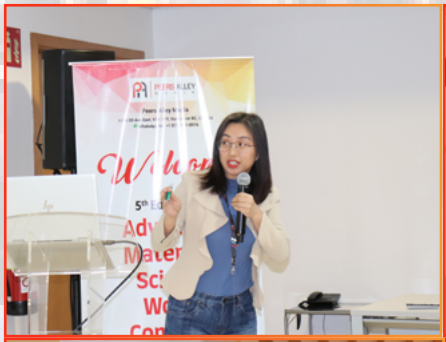


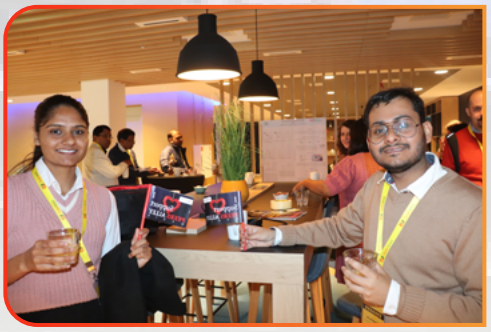
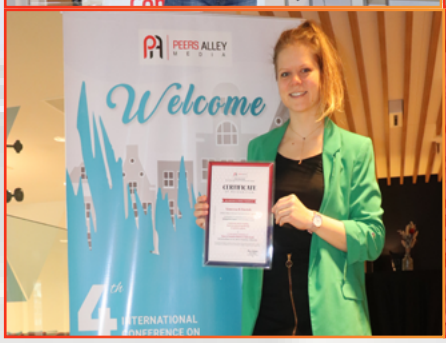

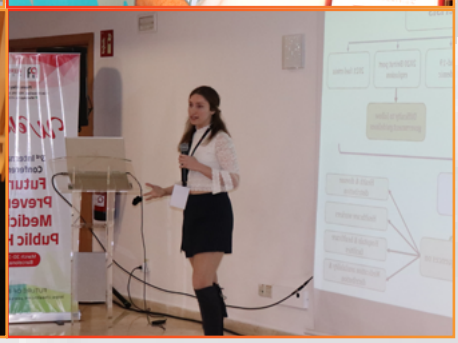


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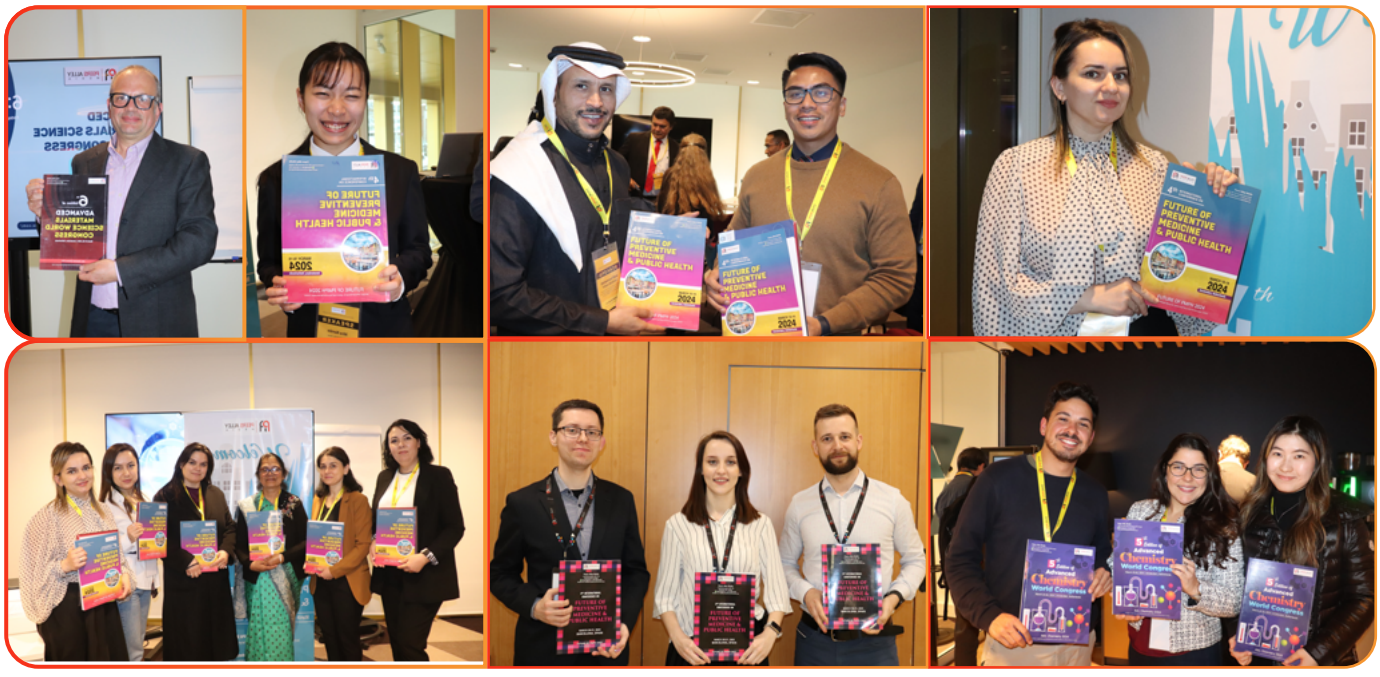

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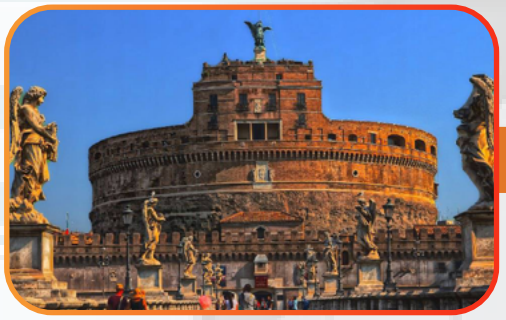
ROME

Rome, the capital of Italy, is a city steeped in history, culture, and architectural marvels. Often referred to as "The Eternal City," Rome seamlessly blends its ancient heritage with modern vibrancy, making it one of the most captivating destinations in the world

As the heart of the Roman Empire, Rome boasts an extraordinary past dating back over 2,500 years. Iconic landmarks such as the Colosseum, Pantheon, and Roman Forum stand as testaments to its glorious history. The Vatican City, an independent city-state within Rome, is the spiritual and administrative center of the Roman Catholic Church and home to St. Peter's Basilica and the Sistine Chapel, featuring Michelangelo's breathtaking frescoes.

Rome is a haven for art lovers, with world-renowned museums such as the Borghese Gallery and Capitoline Museums housing masterpieces by artists like Caravaggio, Raphael, and Bernini. The city's architecture reflects various periods, from classical Roman to Renaissance and Baroque styles.

Italian cuisine thrives in Rome, where traditional dishes like carbonara, cacio e pepe, amatriciana, and suppli (fried rice balls) are must-tries. The city's lively piazzas, such as Piazza Navona and Campo de' Fiori, offer a charming atmosphere filled with cafés, restaurants, and street performers.



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The Spanish Steps

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