

# IN-PERSON CONFERENCE

PROGRAM- AT-A-GLANCE



1126 59 Ave East, V5X 1Y9, Vancouver BC, Canada

🕓 WhatsApp No: +1 506 909 0537



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## SCIENTIFIC PROGRAM



Joint Event on

## ADVANCED NANOTECHNOLOGY AND NANOMATERIALS



ADVANCES IN SMART MATERIALS ENERGY MATERIALS AND STRUCTURES

October 27, 28 2025 | Prague, Czech Republic

### SCIENTIFIC PROGRAM



#### **OCTOBER 27, 2025**

08:00-08:30	Registrations
08:30-08:40	Inaugural Ceremony
Moderator	Debendra Kumar Das, University of Alaska Fairbanks, USA

Sessions: Nanoscience and Technology | Nanomedicine | Nanomaterials | Materials | Science and Engineering | Smart Materials | Composite Materials | 3D Printing | Robotics | Nanosensors | Nano Structures | Nanotechnology Applications | Smart Materials Applications | Wearable Healthcare Devices

	Distinguished Speaker Talks
Session Chair	Kevin Kendall, Hydrogen United, UK
Session Chair	Giovanna Rassu, University of Sassari, Italy
20 (0 00 55	Title: Newton's Nanoparticles
08:40-09:00	Kevin Kendall, Hydrogen United, UK
09:00-09:20	Title: Analytical Model Prediction versus Experimental Characterization of Performance of Nanofluids of Different Concentrations in Hydronic Air Coil
	Debendra Kumar Das, University of Alaska Fairbanks, USA
00:20 00:70	Title: Synergistically Integrated $WS_2$ -Mose $_2$ Nanowires Cosputtered over Porous Silicon towards ppb Level $NO_2$ Detection
09:20-09:40	Ramesh Chandra, Indian Institute of Technology Roorkee (IIT Roorkee), India
09:40-10:00	Title: Assessing the Earthquake Performance of Existing Buildings in New Zealand
	Lusa Tuleasca, UNITEC Institute of Technology - Auckland, New Zealand
10:00-10:20	Title: Integrating Nanotechnology into Cancer Care across Biological Scales
	Brindusa DRAGOI, Regional Institute of Oncology, Romania

GROUP PHOTO 10:20-10:30

**REFRESHMENT BREAK 10:30-10:50** 

10:50-11:10	Title: Navigating Artificial Intelligence in Modern Workplaces
	Anne Rosken, ANED – HSG – PCU, Germany
11:10-11:30 (Poster)	Title: Controlling the Structural Defects of Layered Double Hydroxides for Skin Cancer Therapy
	Catalina-Nicoleta Basoc, Regional Institute of Oncology, Romania
11:30-11:50	Title: Functionalized Porous Silica Nanoparticles: Green Synthetic Approaches and Adsorption Applications for Wastewater Remediation
	<b>Fabiana Tescione,</b> Institute for Polymers, Composites and Biomaterials, CNR, Italy
11:50-12:10	Title: New Approaches for the Treatment of Multiple Sclerosis using Biocompatible Nanoparticles
	Giovanna Rassu, University of Sassari, Italy
12.10.12.70	Title: Synthesis, Characterization and Bio-Efficacy of Silver Nanoparticles
12:10-12:30	<b>Pramod Katti,</b> Environmental Management and Policy Research Institute, India
12.70.12.50	Title: Prospective Characteristics of Alginate-Based Oil-in-Water Emulsion Liquid Marbles for Controlled Release of Limonene
12:30-12:50	Masanao Imai, Nihon University, Japan Homare Tsugifuji, Nihon University, Japan
	GROUP PHOTO 12:50-13:00
LUNCH BREAK 13:00-13:40	
13:40-14:00	Title: Assessment of Novel Boron-Doped Mesoporous Bioactive Glass Nanoparticles Loaded Alginate Hydrogel in Dogs
	Marwa Samir Naga, Alexandria University, Egypt
14:00-14:20	Title: Efficient Antimicrobial Polymer Nanocomposite Coatings for Hospital Walls
	Richa Tomar, TNB College, Tilka Manjhi Bhagalpur University, India
14:20-14:40	Title: Metallic and Non-Metallic Plasmonic Nanostructures for LSPR Sensors
	Samar Ghopry, Jazan University, Saudi Arabia
14:40-15:00 (Poster)	Title: Novel Dendrimer Candidates for siRNA Delivery Systems: Biophysical Properties and Gene Silencing Efficiency
	<b>Paulina Rycharska,</b> BioMedChem Doctoral School of the University of Lodz and Lodz Institutes of the Polish Academy of Sciences, Poland

15:00-15:20	Title: From Nature to Nanotechnology: The Promise of Green Nanoparticles in Cancer Therapy
	Kanu Priya, Sharda University, India
15:20-15:40	Title: Behavior of Hinges in a Building with and without Lateral Load Resisting System Provided at Ends—Pushover Analysis
	Deepa S, DACG Government Polytechnic, India
	Title: Nanocomposites Based on Hydroxyapatite and Gelatin for Regeneration of Bones
	Sahar Ibrahim Hamed Mostafa, Mansoura University, Egypt
	REFRESHMENT BREAK 16:00-16:20
16:20-16:40	Title: Nanorobots and the Endothelial Glycocalyx: A Novel Approach to Cardiovascular Health
	Antea Krsek, University of Rijeka, Croatia
16.40 17.00	Title: Low Cost Fabrication of Electrically Tunable and Uniform Conducting Paper for Flexible Electronics
16:40-17:00	<b>Gayathri Gangadharan,</b> Sri Sivasubramaniya Nadar College of Engineering, India
17:00-17:20	Title: Revolutionizing Water Purification Selection with Neural Network and Double Picture Hierarchy Linguistic Aggregation Operators
	Yasir Akhtar, Chung Yuan Christian University, Taiwan
17:20-17:40	Title: Mechanical Properties of Different Types of Composite Resin used as Clear Aligner Attachments: <i>An in vitro Study</i>
	Rana Rabei Alshammari, University of Ha'il, Saudi Arabia
17:40-18:00	Title: Tailoring Optical and Electrical Properties of Nanocrystalline Indium Films on Polycarbonate Substrates <i>via</i> HMDSO Pre-layer: Morphology-Dependent Selective Transmission Effects
	Jerson Peralta, University of Barcelona, Spain
18:00-18:20	Title: Artificial Intelligence in Virtual Physical Rehabilitation: Machine Learning Perspectives and System Design
	Nanna Dahlem, August-Wilhelm Scheer Institute gGmbH, Germany
NETWORKING	
	END OF DAY 1

## SCIENTIFIC PROGRAM DAY 02

**TUESDAY** 

**OCTOBER 28, 2025** 

08:30-08:40 Introduction

Sessions: Nanoscience and Technology | Nanomedicine | Nanomaterials | Materials Science and Engineering | Smart Materials | Composite Materials | 3D Printing | Robotics | Nanosensors | Nano Structures | Nanotechnology Applications | Smart Materials Applications | Wearable Healthcare Devices

Distinguished Speaker Talks	
08:40-09:00	Title: 3D-Printed Geopolymers with Visible Porosity: Synthesis and Characterization
	Youssef Ettahiri, University of Picardie Jules Verne, France
09:00-09:20	Title: Transparency of Graphene to Solid-Solid Van Der Waals Interactions
	Chuanli Yu, Peking University, China
	Title: Modelling of PV Systems Employing MATLAB/SIMULINK
09:20-09:40	<b>Mourad Talbi,</b> Center of Researches and Technologies of Energy of Borj Cedria, Tunisia
09:40-10:00	Title: On The Mechanism of Self-Oscillations of Current in Semiconductor Double-Barrier Diodes
	Rasulova Gul Dzakhan Kadyrovna, Lebedev Physical Institute of Russian Academy of Sciences, Russia
10:00-10:20	Title: Quantum and Nanophotonic Approaches to Advancing Artificial Intelligence
	Rohit K Ramakrishnan, Indian Institute of Science, India

**PANEL DISCUSSION** 

**END OF DAY 2** 





## **Exclusively for Virtual Speakers**

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**BOOKMARK YOUR DATES** 

6th Global Conference on

# ADVANCED NANOTECHNOLOGY AND NANOMATERIALS

8

8th Euro-Global Summit on

# ADVANCES IN SMART MATERIALS ENERGY MATERIALS AND STRUCTURES

OCTOBER 2026 | USA



# VIRTUAL CONFERENCE

PROGRAM- AT-A-GLANCE



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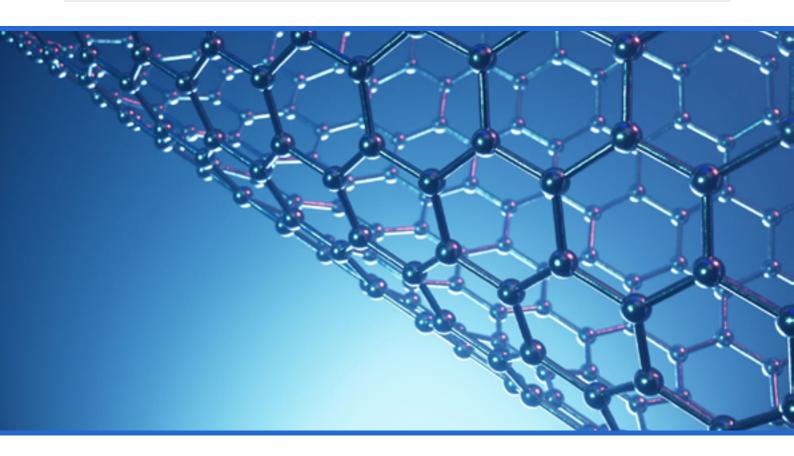
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## SCIENTIFIC PROGRAM



Virtual Event

## ADVANCED NANOTECHNOLOGY AND NANOMATERIALS



ADVANCES IN SMART MATERIALS ENERGY MATERIALS AND STRUCTURES

October 27-28, 2025

### SCIENTIFIC PROGRAM



**OCTOBER 27, 2025** 

#### **GMT - Greenwich Mean Time**

07:20-07:30

#### **Inaugural Ceremony**

Sessions: Nanoscience and Technology | Nanomedicine | Nanomaterials | Materials | Science and Engineering | Smart Materials | Composite Materials | 3D Printing | Robotics | Nanosensors | Nano Structures | Nanotechnology Applications | Smart Materials Applications | Wearable Healthcare Devices

	Distinguished Speaker Talks
07:30-07:50	Title: Corten Steel: Conservation, Corrosion and Concerns
	Christian Paglia, Institute of Materials and Construction, Switzerland
07.50 00.10	Title: Mesoscopically Structured Minerals (Mesocrystals) in Geological Processes. A Review
07:50-08:10	<b>Irina Kircheva Marinova,</b> Institute of Mineralogy and Crystallography, Bulgarian Academy of Sciences, Bulgaria
08:10-08:30	Title: Sulfur-Doped ZnO as Cathode Interlayer for Efficient Inverted Organic Solar Cells
08:10-08:30	<b>Georgios Manginas,</b> National Centre for Scientific Research Demokritos, Greece
08:30-08:50	Title: Secondary Mandibular Reconstruction with Patient Specific 3D Printed Implant
	Harsimran Singh, C.K.Birla Hospital, India
08:50-09:10	Title: Quantum and Nanophotonic Approaches to Advancing Artificial Intelligence
	Rohit K. Ramakrishnan, Indian Institute of Science, India
09:10-09:30	Title: Membrane Filtration Technology – Nano Material-Based Waste Water Treatment and Purification
	M H Fulekar, Parul University, India
00.70 00.50	Title: Female Computer Teachers Training by the (TAWOCK) Model
09:30-09:50	Remsh Nasser Alqahtani, King Saud University, Saudi Arabia

09:50-10:10	Title: Design and Application of Novel Nanocomposites for Water Remediation
	Chilukoti Srilakshmi, GITAM Deemed to be University, India
10:10-10:30	Title: Additional Increase in Built-in Voltage of Nanowire Solar Cells Based on Strongly Asymmetric <i>P-N</i> Heterojunctions
	<b>Vitalii L. Borblik,</b> V. Lashkaryov Institute of Semiconductor Physics, Ukraine
10:30-10:50	Title: Environment-Friendly High-Performance CH₃NH₃SnBr₃-Based Perovskite Solar Cells: A Numerical Study
	Pankaj Arora, Birla Institute of Technology & Science, India
10:50-11:10	Title: Green Synthesis, Characterization of Metallic Nanoparticles and their Multiple Biological Applications
	Narasimha Golla, Sri Venkateswara University, India
	REFRESHMENT BREAK 11:10-11:30
11:30-11:50	Title: Nano Implanted Sensor Grids Utilization in the Detection of Micro Cracks in Structural Elements
	Aditya Singh, Amrita Vishwa Vidyapeetham, India
11:50-12:10	Title: Green Solvent-Based Synthesis of Sm3+ -Doped Tio <sub>2</sub> Nanostructures for Solar Energy Conversion
	Shelan M. Mustafa, Erbil Polytechnic University, Iraq
12:10-12:30	Title: Sunlight-Mediated Degradation of Water Contaminants with a Novel Modified Bismuth Molybdate Perovskite Photocatalyst
	Amruth H D Gowda, GITAM Deemed to be University, India
12:30-12:50	Title: Adsorptive Microplastic Removal using Pinus Roxburgii Derived Biochar– a Waste Residue of Himalayan Forests
.2.55 12.55	Misbah Bashir, Islamic University of Science & Technology, India
	Title: Detection of Pathogen in Water
12:50-13:10	Faiza Jan Iftikhar, National University of Technology (NUTECH), Pakistan
LUNCH BREAK 13:10-13:40	
13:40-14:00	Title: Title: Modelling of PV Systems Employing MATLAB/SIMULINK
	<b>Mourad Talbi,</b> Center of Researches and Technologies of Energy of Borj Cedria, Tunisia

14:00-14:20	Title: The Role of Nanoparticle in Diagnosis and Treatment of Systemic Lupus Erythematosus
	Somayeh Marouzi, Mashhad University of Medical Sciences, Iran
14:20-14:40	Title: Enhanced Fluoride Adsorption by Strontium- Modified Dicalcium Phosphate Dihydrate
14:40-15:00	Tejaswini Mendke, GITAM Deemed to be University, India
	Title: The Sustainability of Beach-Cast Seaweed Biomass for Biorefinery Processes: Calorific Power Heating Studies with Macroalgae
	<b>Fernando Pinto Coelho,</b> Institute of Biological and Health Sciences of the Federal University of Alagoas, Brazil
	Title: Youth Cultural and Creative Practices in Light of Emerging Artificial Intelligence Usage During COVID-19
	Joanna Black, University of Manitoba, Canada
15.20 15.70	Title: Energy Optimal Speed Profiles for a Differential Drive Mobile Robot with Payload
15:20-15:40	Mauricio Fernando Jaramillo Morales, Universidad Autónoma de Manizales, Colombia
	Title: Influence of Load Misalignment on T-Bolts Failure in Wind Turbine Blades
15:40-16:00	Guillermo Muñoz Hernandez, Centro de Tecnología Avanzada, CIATEQ A.C., México
	Title: An Exploration of the Discontinuous-Continuous Fusion in Yuunohui'tlapoa for Keyboard
16:00-16:20	<b>Julio Estrada,</b> National Autonomous University of Mexico, UNAM, Mexico
16:20-16:40	Title: Genostep: Transforming Urban Infrastructure into a Renewable Energy System
	Jacob Cox, Green Graphene LLC, USA
	END OF DAY 1

#### **END OF DAY 1**

## SCIENTIFIC PROGRAM DAY 02

**TUESDAY** 

**OCTOBER 28, 2025** 

**GMT - Greenwich Mean Time** 

08:20-08:30

**Opening Ceremony** 

Sessions: Nanoscience and Technology | Nanomedicine | Nanomaterials | Materials Science and Engineering | Smart Materials | Composite Materials | 3D Printing | Robotics | Nanosensors | Nano Structures | Nanotechnology Applications | Smart Materials Applications | Wearable Healthcare Devices

	Distinguished Speaker Talks	
08:30-08:50	Title: Top-Down Reverse Engineering of Gold Nanoparticles in a Silica Aerogel Matrix	
	István Lázár, University of Debrecen, Hungary	
08:50-09:10	Title: Luminescent Solar Concentrators Based on Polymer Optical Fibers Doped with Fluorescent Entities	
	<b>Nekane Guarrotxena,</b> Spanish National Research Council (CSIC), Spain	
00:10 00:70	Title: Smart Photoalignment Material: Azodye Nanolayers for Liquid Crystal Devices	
09:10-09:30	<b>Vladimir G. Chigrinov,</b> Hong Kong University of Science and Technology, Hong Kong	
09:30-09:50	Title: Mapping the Link Between Environmental Sustainability and Electric Four – Wheelers: A Bibliometric Study	
	V. Shunmathy, Vellore Institute of Technology (VIT), India	
09:50-10:10	Title: Memory Phenomena and Diffusionless Characteristics of Crystallographic Transformations in Shape Memory Alloys	
	Osman Adiguzel, Firat University, Turkey	
10:10-10:30	Title: Atmospheric River Detection- A Survey on Deep Learning and Quantum Neural Networks	
	Sivachitralakshmi. S, SRM Institute of Science and Technology, India	
10:30-10:50	Title: Reducing Bacterial Adhesion on 304 Stainless Steel Surface by Nd-YAG Laser Irradiation	
	Sahar Sohrabi, Iran University of Science and Technology, Iran	

REFRESHMENT BREAK 10:50-11:10	
11:10-11:30	Title: Energy-Efficient Approximate Arithmetic Circuit Design for Power Hungry Applications
	<b>Joshi Viraj Vilas Alias,</b> Sinhgad Institute of Technology, Pune University, India
11:30-11:50	Title: Existence of Solutions for a Class of Dirichlet Problems Involving Fractional (p,q)-Laplacian Operators
	Hasna Moujani, Sultan Moulay Slimane University, Morocco
11:50-12:10	Title: Incorporating Graphene-Based Nanocomposites Along with Self-Healing Polymers for Civil Infrastructure as Smart Structural Applications
	Aditya Singh, Amrita Vishwa Vidyapeetham, India
12:10-12:30	Title: Modeling and Forecasting of Solar Power Plant Energy Production <i>via</i> Machine Learning: A Comparative Approach
	Lakhdari Lahcen, Tahri Mohammed Bechar University, Algeria
12:30-12:50	Title: Utilizing Non-Convex Optimization for SC-OPF Under N-1 Contingency in a IEEE 9-Bus System
	Chaitanya, Indian Institute of Management, India
12:50-13:10	Title: Antimicrobial Activity of Fe <sub>3</sub> O <sub>4</sub> and Au@Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Against <i>Salmonella Typhimurium</i> : <i>In vitro</i> Efficacy and in Silico Validation Through Protein–Aptamer Interactions
	Chandrajeet Dhara, Jaypee Institute of Information Technology, India
	LUNCH BREAK 13:10-13:40
13:40-14:00	Title: Achieving Cost Efficiency in Cloud Data Centers through Model- Free Q-Learning
	Razieh Darshi, Iran University of Science and Technology, Iran
14:00-14:20	Title: Sustainable Agriculture Systems Transformed: The Role of Drones in Enhancing Precision Safety and Efficiency
	Syeda Faiza Nasim, UIT University, Pakistan
14:20-14:40	Title: Enhancing Charging Station Power Profiles: A Deep Learning Approach to Predicting Electric Vehicle Charging Demand
	Youssef Oukhouya Ali, University Sidi Mohamed Ben Abdellah, Morocco

	Title: Community Engagement in Slum Upgrading and Maintenance: A Case Study of the Kambi Moto Project in Huruma, Kenya
14:40-15:00	Susan Kibue, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya
	Title: Comparative Evaluation of Pretreatment Methods for Valorising Hemp Hurds as a Lignocellulose Biomass for Bio-Based Products
15:20-15:40	Ziningi Myeni, Durban University of Technology, South Africa
	Title: A Novel High-Performance Two-Input NOR Logic Gate Based on OPE Molecular Transistor
	Masoumeh Tirgar Fakheri, Khatam University, Iran
END OF DAY 2	

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