




IN-PERSON CONFERENCE

PROGRAM- AT-A-GLANCE

Peers Alley Media

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

 WhatsApp No: +1 (506) 909-0537

Joint Event

Advanced Nanotechnology and Nanomaterials



Advanced Physics; Applications and Scientific Innovations

September 19-20, 2024
Barcelona, Spain

SCIENTIFIC PROGRAM

NANO INTELLECTS 2024 & ADV. PHYSICS 2024

DAY 1

SEPTEMBER 19, 2024

Scientific Program

08:30-09:00 Registrations

09:00-09:10 Opening Ceremony

Moderator Francois HENN, Université de Montpellier, France

Chair Ricardo Vera-Graziano, Instituto de Investigaciones en Materiales, UNAM, México

Topics: Nanoscience and Technology | Nano Medicine | Nano Polymers | Nano Physics | Nano Chemistry | Robotics | Artificial intelligence | Graphene | Materials Science and Engineering | Physics | Materials Physics | Optics and Photonics | Quantum Materials and Quantum Computing

Distinguished Speaker Talks

09:10-09:35

Title: Compton suppression and gamma-gamma coincidence spectroscopy in radionuclide identification

Sheldon Landsberger, University of Texas, USA

09:35-10:00

Title: Confinement of a biologic ionic channel in a SWCNT

Francois HENN, Université de Montpellier, France

10:00-10:25

Title: Antiviral property of nanoclusters-grafted photocatalysts under indoor light illumination

Masahiro Miyauchi, Tokyo Institute of Technology, Japan

10:25-10:50

Title: Modulation of spontaneous activity in Embryonic Cardiomyocytes cultured on Poly (Vinyl-Alcohol)/Bioglass Type 58S Electrospun Scaffolds

Ricardo Vera-Graziano, Instituto de Investigaciones en Materiales, UNAM, México

10:50-11:15

Title: Restructuring consciousness through the Symintentry Hypothesis

David Leonard Hunter Rail, Consultant Neurologist, Australia

Group Photo 11:15-11:20

Refreshment Break 11:20-11:35

11:35-12:00	Title: Surprises in the return-rates of photons from a mirror on the Moon Hans Deyssenroth, <i>Germany</i>
12:00-12:25	Title: Classical galvanomagnetic effects as a means of studying solids Yurii Uhryn, <i>Ivan Franko Drohobych State Pedagogical University, Ukraine</i>
12:25-12:50	Title: Porous hexagonal RuSe ₂ thin films are obtained at low temperature using the simple spray pyrolysis Beya OUERTANI, <i>University of Carthage, Tunisia</i>
12:50-13:15	Title: Numerical evidence of hidden chaotic attractors in integer-order and fractional-order systems Marius-F. Danca, <i>Babes-Bolyai University, Romania</i>
Group Photo 13:15-13:20	
Lunch Break 13:20-14:05	
14:05-14:30	Title: Zinc oxide nanoparticles exacerbate skin epithelial cell damage by upregulating pro-inflammatory cytokines and exosome secretion in M1 macrophages following UVB irradiation-induced skin injury Ying-Jan Wang, <i>National Cheng Kung University, Taiwan</i>
14:30-14:55	Title: Development of small and large compressive pulses in two phase flow Meera Chadha, <i>DST Centre of Excellence in Climate Modelling, IIT Delhi, India</i>
14:55-15:20	Title: Investigating power loss in a wind turbine using real-time vibration signature Kingshuk Banerjee & Vishwaas Narasinh, <i>Hitachi India Pvt. Ltd, India</i>
15:20-15:45	Title: Use of nanotechnology and liability in the Italian law system Giovanna Capilli, <i>San Raffaele University, Italy</i>
15:45-16:10	Title: SEE failure analysis of Hi-rel ASIC for spacecraft applications Padmapriya K, <i>U R Rao Satellite Centre, ISRO, India</i>
Refreshment Break 16:10-16:25	
16:25-16:50	Title: Novel method for preparing an alumina colloidal suspension and its coating by DC pulse mode by electrophoretic deposition method Manisha Chauhan, <i>Ariel University, Israel</i>

16:50-17:15	<p>Title: Preparation and investigation of Montmorillonite-K10 polyaniline nanocomposites for optoelectronic applications</p> <p>Ramsha Idrees, <i>Pakistan Institute of Engineering and Applied Sciences, Pakistan</i></p>
17:15-17:40	<p>Title: Fluorescence theranostic PROTACs for real-time visualization of ERα degradation</p> <p>Xiaohua Wang, <i>Wuchang University of Technology, China</i></p>
17:40-18:05	<p>Title: Photovoltaic performance investigation of solar cells based on different compositions of perovskite absorber layer</p> <p>Samaneh Soleimani-Amiri, <i>Babol Noshirvani University of Technology, Iran</i></p>
18:05-18:30	<p>Title: Investigation of Rietveld refinement and corrosion behaviour of Al-TiO₂ nanocomposite produced using air plasma spray and accumulative roll bonding method</p> <p>Hamed Aminian, <i>Semnan University, Iran</i></p>
18:30-18:55	<p>Title: 2D magnetic memory based on graphene nanoribbons spin-valves</p> <p>Wen-Jeng Hsueh, <i>National Taiwan University, Taiwan</i></p>
18:55-19:20	<p>Title: Temporal dynamics of Lung-Deposited Surface Area (LDSA) in Central Los Angeles: Diurnal and seasonal patterns</p> <p>Constantinos Sioutas, <i>University of Southern California, USA</i></p>

Panel Discussion

End of Day 1



DAY 2

SEPTEMBER 20, 2024

Scientific Program

09:55-10:00 Introduction

Chair Beya OUERTANI, University of Carthage, Tunisia

Topics: Nanoscience and Technology | Nano Medicine | Nano Polymers | Nano Physics | Nano Chemistry | Robotics | Artificial Intelligence | Graphene | Materials Science and Engineering | Physics | Materials Physics | Optics and Photonics | Quantum Materials and Quantum Computing

Distinguished Speaker Talks

10:00-10:25

Title: Investigation of nano- and micro-sized amorphous materials under the influence of high-energy radiation

Mohammed Faeq Mohammed Sabri, *Koya University, Iraq*

10:25-10:50

Title: No infections, no failure: 30,000 human implanted nanotextured orthopedic implants and counting

Thomas J. Webster, *12 Start-up Companies, Mansfield Bioincubator, USA*

10:50-11:15

Title: Approaches in line with human physiology to prevent skin aging

Nazli Karimi, *Hacettepe University, Turkey*

11:15-11:40

Title: Introducing the Vitrification potential as a poly-categorical glass-forming ability criterion for metallic glasses

Abdelmalek ROULA, *Mohamed Seddik Ben Yahia University of Jijel, Algeria*

11:40-12:05

Title: Hybrid classical-quantum transfer learning for text classificatio

Mohammad Mahdi Nasiri Fatmehsari, *Pasargad Institute for Advanced Innovative Solutions, Iran*

Panel Discussion

End of Day 2



DAY 2

SEPTEMBER 20, 2024

Scientific
P r o g r a m

**Exclusively for
Virtual Speakers**

**Virtual Presentations
Conducted through
CISCO Webex**




VIRTUAL CONFERENCE

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Virtual Event

Advanced Nanotechnology and Nanomaterials



Advanced Physics; Applications and Scientific Innovations

September 20, 2024

SCIENTIFIC PROGRAM

NANO INTELLECTS 2024 & ADV. PHYSICS 2024

2024

SEPTEMBER 20 | FRIDAY

Scientific Program

BST (British Summer Time)

07:45-08:00 Opening Ceremony

Topics: Nanoscience and Technology | Nano Medicine | Nano Polymers | Nano Physics | Nano Chemistry | Robotics | Artificial Intelligence | Graphene | Materials Science and Engineering | Physics | Materials Physics | Optics and Photonics | Quantum Materials and Quantum Computing

Distinguished Speaker Talks

08:00-08:20

Title: Designing and managing advanced, intelligent and ethical health and social care ecosystems

Bernd Blobel, University of Regensburg, Germany

08:20-08:40

Title: Temporal dynamics of Lung-Deposited Surface Area (LDSA) in Central Los Angeles: Diurnal and seasonal patterns

Constantinos Sioutas, University of Southern California, USA

08:40-09:00

Title: Piezo-phototronic effect in multi-layer structured optoelectronic: Bilateral piezoelectric charge modulation

Wenbo Peng, Xi'an Jiaotong University, China

09:00-09:20

Title: Nanotechnology in automated visual machines that aid in quicker and more efficient inspection time in an electronics manufacturing industry

Ma. Dominique M. Soriano, De La Salle University | Samsung Electro-Mechanics, Philippines

09:20-09:40

Title: Navigating complexity: A metaheuristic approach to path planning and optimization problem

Maneesha, University of Delhi, India

09:40-10:00

Title: Stress analysis on Functionally Graded Rotating Cylinders via IADM

Servet MERT KUTSAL, Kocaeli University, Turkey

Refreshment Break 10:00-10:15

10:15-10:35

Title: Linear and nonlinear optical interactions in Erythrocin dye doped glasses and crystals

David Joseph, Guru Jambheshwer University of Science and Technology, India

10:35-10:55	<p>Title: Development of Trioctylamine (TOA)-functionalized superparamagnetic nanoadsorbents for metals extraction in hydrometallurgy</p> <p>Farzad Firouzi, Sharif University of Technology, Iran</p>
10:55-11:15	<p>Title: Recent advancements in information security with optical cryptosystems</p> <p>Gaurav Verma, The LNM Institute of Information Technology, India</p>
11:15-11:35	<p>Title: Mathematical model of a heat transducer with a cylindrical heat pipeline and with a focused heat source</p> <p>Matyakubova Parakhat, Tashkent State Technical University, Uzbekistan</p>
11:35-11:55	<p>Title: A review of the effect of magnetic field using nanofluids and ultrasonic amplification technology on water desalination by solar stills</p> <p>Kimya Samadi, Islamic Azad University, Iran</p>
11:55-12:15	<p>Title: Morphology, particle size and properties of nanostructures obtained using pulsed plasma and interfacial energies</p> <p>Murzabekova Elmira Tungatrovna, National Academy of Sciences of the Kyrgyz Republic, Kyrgyzstan</p>
Lunch Break 12:15-12:50	
12:50-13:10	<p>Title: Computing local optima in QUBO in RP</p> <p>Lunshan Gao, Wilfrid Laurier University, Canada</p>
13:10-13:30	<p>Title: <i>In Vivo</i> comparison of customized zirconia barriers in guided bone regeneration: An experimental study</p> <p>Zeynep Tuncludemir, Istanbul University, Turkey</p>
13:30-13:50	<p>Title: Considering the tip radius effect in investigation of observable sensitivity to Van der Waals force under heptamodal-frequency excitation</p> <p>Cagri Yilmaz, Akdeniz University, Turkey</p>
13:50-14:10	<p>Title: The new era of immunological treatment, last updated and future consideration of CAR T cell-based drugs</p> <p>Kaveh Hadiloo, Zanjan University of Medical Sciences, Iran</p>
14:10-14:30	<p>Title: Student's research activities in hybrid intellectual environment of mathematics teaching</p> <p>Eugeniy Smirnov, Yaroslavl State Pedagogical University named after K.D. Ushinsky, Russia</p>
14:30-14:50	<p>Title: Gold nanoparticles in silica aerogels</p> <p>István Lázár, University of Debrecen, Hungary</p>

Refreshment Break 14:50-15:05

15:05-15:25

Title: **Advances in Sintering of titanium aluminide: A review**

Mahlatse Mphahlele, Durban University of Technology, South Africa

15:25-15:45

Title: **Multinutrient phyto-engineered nanofertilizers for sustainable crop production**

Karen Jacqueline Cloete, University of South Africa, South Africa

15:45-16:05

Title: **MoS₂ coated fabrics for triboelectric nanogenerator as harvesting energy for future clothes**

Narjes Ben Brahim Aouani, University of Tunis El Manar, Tunisia

16:05-16:25

Title: **A comparative study of cement-based and solvent-based coatings for reinforced concrete protection against corrosion in sulfate solutions**

Ginneth Patricia Millan Ramirez, Gdansk University of Technology, Poland

16:25-16:45

Title: **An alternative quantum foundation**

Inge S. Helland, University of Oslo, Norway

16:45-17:05

Title: **Exploring the influence of surface dressing ultrafine magnetic nanoparticles**

Paulo Cesar De Moraes, Catholic University of Brasilia, Brazil

17:05-17:25

Title: **LuGre friction-based hysteresis model of piezoelectric actuation system**

Sabarianand D V, Detroit Engineered Products Inc, USA

17:25-17:45

Title: **A Statistical Analyses and Theoretical Perspectives of Native American Women Entrepreneurs**

Andrea Smith-Hunter, Siena College, United States

17:45-18:05

Title: **Fractal properties in electronic spectra of GA sequences of human DNA**

Marcos Paulo Aires Cardoso, Universidade de Brasília - UNB, Campus Universitário Darcy Ribeiro, Brazil

18:05-18:25

Title: **Characterization and optimization of multiomic single-cell epigenomic profiling**

Leticia Sandoval, Mayo Clinic, USA

18:25-18:45

Title: **Investigating power loss in a wind turbine using real-time vibration signature**

Kingshuk Banerjee & Vishwaas Narasinh, Hitachi India Pvt. Ltd, India

Closing Remarks

