

Global

# Physics Innovation Conference

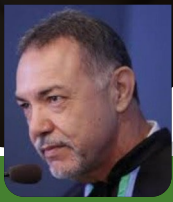
*Theme: Physics for a Changing  
World: Evidence to Application*

**17-19<sup>TH</sup>**  
**SEPTEMBER, 2026**  
**ROME, ITALY**

## *Our* OCMs



**EPHRAIM SUHIR**  
Portland State University,  
United States



**PAULO CESAR DE MORAIS**  
University of Brasilia, Brazil



**VLADIMIR CHIGRINOV**  
Hong Kong University of Science  
and Technology, Russian Federation



**TOLGA YARMAN**  
Istanbul Okan University, Turkey

## *Scientific* TOPICS

- Complex Systems & Nonlinear Dynamics
- Artificial Intelligence & Machine Learning in Physics
- Particle & High-Energy Physics
- Fusion Science & Confinement Systems
- Condensed Matter & Correlated Electrons
- High-Performance Computing for Physics
- Quantum Computing & Algorithms
- Quantum Materials & Topological Systems
- Astrophysics & Cosmology
- Biophysics & Medical Physics
- Quantum Sensors & Precision Metrology
- Atomic, Molecular & Optical Physics (AMO)
- High-Energy-Density Physics (HEDP)
- Ultrafast & Attosecond Science
- Quantum Communication & Cryptography

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NH Villa Carpegna  
Via Pio IV, 6, 00165 Roma RM, Italy

**Ephraim Suhir, Portland State University, United States**

Title: Will be Updated Soon

**Paulo Cesar De Morais, University of Brasilia, Brazil**

Title: Enhanced ferromagnetism in carbon dots polyaniline nanocomposite

**Vladimir Chigrinov, Hong Kong University of Science and Technology, Russian Federation**

Title: Photoaligned azodye nanolayers for new liquid crystal devices

**Tolga Yarman, Istanbul Okan University, Turkey**

Title: Quantal theory of gravity two-entity formalism

**Thomas J Webster, Brown University, United States**

Title: Using physics to eliminate implant infection in over 25000 patients to date

**Vladimir V Egorov, National Research Center Kurchatov Institute, Russian Federation**

Title : Nanophysics as an innovation discovery

**Jon H Brasher, Stello Scientific Foundation, United States**

Title: Long Duration environmental effects on distributed precision time measurement

**Wenjie Liu, University of Oxford, United Kingdom**

Title: Visualizing intraorganellar ultrastructures, dynamics, and interactions with open-access background-free Lock-in-SIM

**Abhishek Kumar, Università degli Studi di Salerno, Italy**

Title : Superconducting tungsten- rhenium films: A potential candidate for single photon detectors and quantum devices

**George Petropoulos, Independent Researcher, Greece**

Title: The energy structure of mass

**Omer Korat, Deloitte Israel, Israel**

Title : Minimal local antisymmetric dynamics on simplicial complexes

**Ana Maria Korol, Rosario Physics Institute, CONICET, Argentina**

Title : Brownian motion: From Einstein to Mandelbrot. On analysing diabetics cells

**Emanuel Viana, Science and Technology of Ceara, Brazil**

Title: Critical metrics on 4 manifolds with harmonic anti self dual weyl tensor

**O G Verin, Candidate of Technical Sciences, Istok, Moscow, Russian Federation**

Title : About the crisis in atomic physics caused by the fundamental discovery (2021), related to the theory of hydrogen-like states

**Yu P Chukova, Krasnopresnenskiy Ecology Fund, Moscow, Russian Federation**

Title : The second law of thermodynamics for systems under electromagnetic radiation

**Alexander Bruno, Keldysh Insitute of Applied Mathematics of RAS, Russian Federation**

Title : Nonlinear analysis as new calculus

**Tolga Yarman, Istanbul Okan University, Turkey**

Title: The Universal Matter Architecture (UMA): Cross-scale systematizations from nuclei to the cosmos and near-term tests

**Osman Adiguzel, Firat University, Turkey**

Title: Memory characteristics and lattice reactions governing reversibility in shape memory alloys

**Huang Xun, Ningjiang Middle School, China**

Title: The cosmology of general relativity: The application of gauge theory to the geometry of a uniform gravitational field

**Chen Jun, Chuzhou City Shahe Middle School, China**

Title: Dissipated work and thermal effects  $W=Q=CF2t$

**Ang Yang Yu, Shandong University, China**

Title: A quasiclassical trajectory study of the reaction of chlorine atom with silane based on a novel particle swarm optimization algorithm

**Parvatam Siva Prasad, Independent Consultant, India**

Title: Global developments and breakthroughs in solid state metal-air EV battery technologies

**Bijendra Singh, Central University of Gujarat, India**

Title : Soliphotic optoelectronic integration in photosensitized photogalvanic systems for solar energy transduction and storage

**Aniruddha Kumar Sharma, Indian Institute of Technology Roorkee, India**

Title: Will be Updated Soon....

**Arun K Shandilya, Dr. Hari Singh Gour University Sagar, India**

Title: Discovery of rare helium gas in Sagar district, Madhya Pradesh

**Abhi Preetha, PSG College of Technology, India**

Title: NeuroWave WhisperNet: A conceptual study of non-contact neural electromagnetic communication

**Tarek El Ashram, Port Said University, Egypt**

Title : The Crystalline Accommodation Law Quantum Quantitative Model (CALQQM)

**Tarek El Ashram, Port Said University, Egypt**

Title : Successful prediction of electronic and photonic properties of graphene by Egypt pyramids model for nanotechnology

**Aghapy Yermans Yakoup, Zewail City for Science and Technology, Egypt**

Title : The synergistic effect of using bacteriophages and chitosan nanoparticles against pathogenic bacteria as a novel therapeutic approach

**Muhammad Fiaz, Independent Researcher, Pakistan**

Title: Complex analysis of a finance system and generalized synchronization for n dimension

**Sajid Hussain Siyal, Dawood University of Engineering and Technology, Pakistan**

Title: Tailoring ionic transport in rare earth doped composite electrolytes for high performance metal batteries

**Volodymyr O Kutovyi, Kharkov Institute of Physics and Technology, Ukraine**

Title: Scientific and Technical development of methods of thermal vacuum dehydration and dispersion of heterogeneous materials

Oral Presentations

**Aliyev Zakir Huseyn, Institute of Soil Science and Agricultural Chemistry of the National Academy of Sciences of Azerbaijan, Azerbaijan**

Title: Efficiency of Low Intensive Irrigation and its applicability in the conditions of mountain farming in Azerbaijan

**Temur Z Kalanov, Home of Physical Problems, Uzbekistan**

Title : De broglie hypothesis and the schrödinger equation: Gross errors in mathematics, physics, formal logic, and dialectics

**Miraj Pathak, Independent Research, Nepal**

Title: Explaining Prime Clustering and Gaps via Pathak Continuum Compression Hypothesis PCCH

*Oral presentation slots are available*

Poster Presentations

**Liu Ke Dian, New Tech Institute Beijing, China**

Title: Summary reports of the author's recently published physics research books (2021-2023) and the main follow-up research articles

**Bayan Kurbanova, Nazarbayev University, Kazakhstan**

Title: Thermal hydraulic and solid mechanics multiphysics safety analysis of a heavy water reactor with thorium based fuel

**Dipul Poudel, Independent Researcher, Nepal**

Title: Dipul's Loss-Reclamation Priority Theory (LRPT): A Constraint-Aware Optimization Framework for Energy Systems

*Poster presentation slots are available*