



International Conference on
**Quantum Physics and Nuclear
Technology**

March 27-28, 2023

Millennium Hotel Paris Charles De Gaulle, Paris, France

Scisynopsis LLC
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USA

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Exhibitor

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Conference Programme

March 27-28, 2023, Millennium Hotel Paris Charles De Gaulle, Paris, France

Day 1, March 27, 2023

Meeting Hall: Lilienthal-Johnson

8.00 - 8.45

Registrations

8.45 - 9.00

Introduction

Keynote Presentations

9.00 - 9.45

Sergey Suchkov, Institute for Biotech & Global Health of Ros Biotech, Russia

Title: Personalized and Precision Medicine (PPM) as A Unique Healthcare Model to Be Set Up *via* Biodesign, Bio- and Chemical Engineering, Translational Applications, and Upgraded Business Modeling to Secure the Human Healthcare, Wellness and Biosafety

Oral Presentations

Session Chair:

Peter G. Gyarmati, Stanford University, Hungary

Session Co-chair:

Natan S. Kopeika, Ben-Gurion University of the Negev, Israel

Sessions: Quantum Physics | Nuclear Technology | Quantum Mechanics | Quantum Spintronics | Condensed Matter Physics | Cosmology | Nuclear Physics | Pure and Applied Physics | Quantum Computing | Quantum Dot Applications | GeoPhysics | Quantum Materials | Quantum Topology | Microwave Photonics | Optoelectronic Devices | Non-Linear and Ultrafast Optics | Microwave Photonics | Quantum Thermodynamics

9.45 - 10.30

Patrick Dupré, University of Burgundy, France

Title: Overtone Sub-Doppler Spectroscopy of HD

Group Photo: 10.30 - 10.45

Networking and Refreshments @ Foyer: 10.45 - 11.15

11.15 - 11.40

Alexander Khmaladze, University at Albany, USA

Title: A Novel Method to Study Drug-Induced Cellular Apoptosis: Raman Spectroscopy and Phase Imaging

11.40 - 12.05

Leonardo De Carlo, Luiss Guido Carli di Roma, Italy

Title: On Magnetization in Wavefunction Ensembles

12.05 - 12.30

Carole D. Thomas, Curie Institute, France

Title: Enhanced Efficacy of PDT When Combined with Nitroglycerin Ointment Administration on Xenografted Retinoblastoma in Mice

12.30 - 12.55

Sumita Datta, Alliance University, India

Title: On The Quantum Simulation of Fractional Gross-Pitaevskii Equation in Bose Einstein Condensation

Lunch @ Restaurant: 12.55 - 14.00

14.00 - 14.25

Peter G. Gyarmati, Stanford University, Hungary

Title: The Gauss'S, Theorema Egregium

14.25 - 14.50

Angelos Liapis, Konnektable Technologies Ltd, Greece

Title: HYDRA-Q An Open Quantum Computing Software Ecosystem

14.50 - 15.15

Salman Noach, Jerusalem College of Technology, Israel

Title: Tunable Tm-YAP based Laser for Bio-medical Applications

15.15 - 15.40

Ruggero Loi, X-Celeprint, Ireland

Title: Micro-transfer-printing for Wafer Level Integrated Photonics

Networking and Refreshments @ Foyer: 15.40 - 16.10

16.10 - 16.35

Andrea Zifarelli, University of Bari, Italy

Title: Quartz Tuning Fork as Infrared Photo detector in Tunable Diode Laser Absorption Spectroscopy

16.35 - 17.15

Benedykt Michal Josef Campbell Biezanek, Unaffiliated and Independent Natural Philosopher, UK

Title: Quantum Relativity; The Last Tango of the Finite Graviton

17.15 - 17.40

Naylya Djumaeva, Scientific Research Institute of Virology, Uzbekistan

Title: Unusual Properties of a Field Formed by Low-Level Laser Radiation Used in Therapy of Infection Pathology including Hepatitis C Virus and New Coronavirus Infection

Day 1 Concludes

Day 2, March 28, 2023

Meeting Hall: Lilienthal-Johnson

Keynote Presentations

10.00 - 10.45

Abhijit Ray, Pandit Deendayal Energy University, India

Title: Non-plasmonic Novel Light Trapping for Solar Cells

10.45- 11.30

Irfan Ahmed, City University of Hong Kong, China

Title: Hybrid Communication Assisted by Coherent Oscillator using Resonant Excitation

Networking and Refreshments @ Foyer: 11.30-12.00

Oral Presentations

Session Chair:

Patrick Dupré, University of Burgundy, France

Sessions: Laser Optics | Photonics | Metamaterials | Ophthalmology | Space Photonics | Laser Science and Technology | Optofluidics | Biphotonics | Bio and Medical Optics | Atto Science | Optics and Biophysics | Photonics In Artificial Intelligence | Optics and Lasers in Medicine | Quantum Optics | Quantum Plasmonics | Matter waves and Particle beams | Lasers in Defense Systems | Atomic Physics | Holography and Fiber Devices | Astrophysics

12.00 - 12.30

Natan S. Kopeika, Ben-Gurion University of the Negev, Israel

Title: Review and Status Report on Inexpensive Millimetres Wave/THz Imaging and Communication Using Neon Indicator Lamps as Detectors

12.30 - 13.00

Worawat Traiwattanapong, Kasetsart University, Thailand

Title: Analysis of Optical Integration between SiN Waveguide and A Ge-Based Optical Modulator Using A Lateral Amorphous GeSi Taper for Optical Communication

13.00 - 13.30

F. C. Hoh, Sweden

Title: Scalar Strong Interaction Hadron Theory (SSI)

Lunch @ Restaurant: 13.30 - 14.30

14.30 - 15.00

Khan Muhammad Shehzad, City University of Hong Kong, China

Title: Glymphatic Clearance of Simulated Silicon Dispersion in Mouse Brain Analyzed by Laser Induced Breakdown Spectroscopy

15.00 - 15.30

Hilda Demirjian, Hilda Demirjian Laser & Skin Care Center,
USA

Title: Collagen Laser Skin Rejuvenation

15:30 - 16:00

Prashant Kumar, Indian Institute of Science, India

Title: Light Sheet Based Volume Flow Cytometry (VFC) Imaging System

16.00 - 16.30

Zhyrair S. Gevorkian, Alikhanyan National Laboratory, Armenia

Title: Light Absorption by Weakly Rough Metal Surfaces

16.30 - 17.00

Nazanin Shafiee, Avantes, Netherlands

Title: Advances In Optical Spectroscopy Paving The Way for New Technical Possibilities

Networking & Refreshments @ Foyer: 17.00 - 17.15

Day 2 Concludes followed by Panel Discussion - Awards & Closing Ceremony

Virtual Programme

March 27-28, 2023, Virtual Program

Day 1 March 27, 2023 GMT (London Time: 10.00 - 16.25)

Keynote Presentation

10.00 - 10.30

Yang Yue, Xi'an Jiaotong University, China

Title: Si_3N_4 -based integrated functional devices

Oral Presentations

10.30 - 10.55

Mujahid Mustaqeem, National Taiwan University, Taiwan

Title: Spin-Polarized Flexible Photodetector With Ultrahigh Sensitivity Based On Chiral Metal-Organic Framework (CMOF)

10.55 - 11.20

Aristotle G. Koutsiaris, University of Thessaly, Greece

Title: Optical Technologies & Imaging in Microcirculation Studies

11.20 - 11.45

Rui Li, Deggendorf Institute of Technology, Germany

Title: Computational Fluid Dynamics with Quantum System

11.45 - 12.10

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

Title: Photoalignment and Photopatterning by Nanosize Azodye Layers: Physics and Applications

12.10 - 12.35

Ardhendu Pal, S.N. Bose National Centre For Basic Sciences, India

Title: Investigation of Λ -Type Splitting of Nitric Oxide Using Cavity Ring-Down Spectroscopy

12.35 - 13.00

Praveen Kumar. C, Indian Institute of Technology (BHU), India

Title : Application of Monte Carlo Methods in Nuclear Medicine and Radiotherapy

Lunch (13.00 - 13.30)

13.30 - 13.55

S. Srinivasu, Indian Institute of Technology, India

Title: Spin-Orbit-Interaction (Soi) in the Confined Graded-Index (Grin) Fiber for Higher-Order Oam Modes of Light

13.55 - 14.20

Dhouha Makhoulf, University of Monastir, Tunisia

Title : Enhancement of the Nonlinear Optical Rectification in Vertically Coupled InGaAs/GaAs Quantum Dots Under Applied Electric Field

14.20 - 14.45

Michael I. Tribelsky, Lomonosov Moscow State University, Russia

Title: Recent Advances in Resonant Light Scattering by Small Particles

14.45 - 15.10

H Cristina Vasconcelos, University Of Azores, Portugal

Title : Physics and Material Technologies Applied to the Challenge of Radioisotope Production for Medical and Research Purposes

15.10 - 15.35

Mara Lúcia Gonçalves Diogo, Universidade Nove de Julho, Brazil

Title: Effect of Blue and Red Led on Inflammatory Acne: Case Studies

15.35 - 16.00

Anton A. Lipovka, Sonora University, Mexico

Title: Geometrical Foundation of Quantum Mechanics

16.00 - 16.25

Brandon Lucke-Wold, University of Florida, USA

Title: Focused Ultrasound for Treatment of Peripheral Brain Tumors

16.25 - 16.50

Prasanta K Panigrahi, Indian Institute of Science Education and Research, India

Title: Comparison between Compass State and Squeezing of the Displaced Number State

16.50 - 17.35

Helena Liebelt, Deggendorf Institute of Technology, Germany

Title: Quantum Technologies: Areas of Improvement or How not to Slide into Quantum Winter

Day 1 Concludes

Day 2 March 28, 2023 GMT (London Time: 10.00 - 14.30)

Keynote Presentations

10.00 - 10.30

Sukhdev Roy, Dayalbagh Educational Institute, India

Title: Controlling the Brain and Heart with Light

Oral Presentations

10.30 - 10.55

Alain Djazet, University of Bamenda, Cameroon

Title: Self-Trapped Moving Cavity Solitons, Solution of the (2+1) - Dimensional Cubic-Quinticcomplex Ginzburg-Landau Equation

10.55 - 11.20

Biswajit Panda, S N Bose National Centre for Basic Sciences, India

Title: Simultaneous Detection of Dual-Species ($\text{CH}_4/\text{N}_2\text{O}$) Using Wavelength Modulation Spectroscopy for Atmospheric Monitoring and Breath Diagnostics Applications

11.20 - 11.45

Rajkumar Santra, Variable Energy Cyclotron Centre, India

Title : Modelling of Very Low Energy Capture Reaction for Nuclear Astrophysics

11.45 - 12.10

Mohsen Choubani, University of Monastir, Tunisia

Title : Optimization of the Second Harmonic Generation in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ Lens-Shaped Quantum Dots for Tera-Hertz Applications: Impact of Pressure, Temperature, Electric Field, Indium Segregation, and In/Ga Inter-Diffusion

12.10 - 12.35

Osman Adiguzel, Firat University, Turkey

Title : Crystallographic Aspects of Shape Reversibility in Shape Memory Alloys

12.35 - 13.00

Nabil Benzerroug, University of Monastir, Tunisia

Title : Electric Field, Pressure and Temperature Effects on the Optical Absorption Coefficient in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ Strained Quantum Dots: Under Indium Segregation and In/Ga Intermixing Phenomena

13.00 - 13.25

Orchidea Maria Lecian, Sapienza University of Rome, Italy

Title: A Novel Lemma of the Optical Equivalence Theorem: Analytical Formulation and Applications.

Poster Presentation

13.30 - 13.45

Antonieta Marques Caldeira Zabeu, Universidade do Vale do Paraíba, Brazil

Title: Growth Analysis of *Pantherophis Guttatus* in Bioterium Breeding With Phototherapy Treatment

13.45 - 14.00

Antonieta Marques Caldeira Zabeu, Universidade do Vale do Paraíba, Brazil

Title: Ilib Transcutaneous Domestic Animals - A Review

14.00 - 14.15

Marina Glina De Capitani, Universidade Nove de Julho, Brazil

Title: The Use of Phototherapy In The Treatment of Lesion Caused by *Habronema Spp.* In Equid

14.15 - 14.30

Louiza Hamada, IUT de Colmar, France

Title: The New Coding Algorithm using Li-Fi Signal

Day 2 Concludes Followed by Vote of Thanks

Forthcoming Events

International Conference on **Biomaterials and Biodevices**

September 25-26, 2023 | Paris, France



2nd International Conference on **Neurology and Brain Disorders**

November 2-3, 2023 | London, UK



Internarional Conference on **Hematology and Blood Disorders**

November 6-7, 2023 | Paris, France



European Conference on **Human Genetics**

November 6-7, 2023 | Paris, France



International Conference on **Gynecology and Obstetrics**

November 6-7, 2023 | Dubai, UAE



International Conference on **Biomedical Science and Engineering**

November 6-8, 2023 | Dubai, UAE



International Confernce on **Clinical Case Reports**

November 8-9, 2023 | Dubai, UAE



2nd International Conference on **Materials Science & Engineering**

November 8-9, 2023 | Dubai, UAE



2nd European Congress on **Chemistry and Applied Sciences**

November 9-10, 2023 | Paris, France



2nd International Conference on **Catalysis & Chemical Engineering**

November 9-10, 2023 | Paris, France



European Congress on **Renewable Energy and Sustainable Development**

November 16-17, 2023 | Rome, Italy



European Congress on **Biopolymers and Bioplastics**

November 16-17, 2023 | Rome, Italy



2nd International Conference on **Nanomaterials and Nanotechnology**

November 20-21, 2023 | Vienna, Austria



2nd European Congress on **Microbiology**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Infectious Diseases**

November 20-21, 2023 | Vienna, Austria



2nd International Conference on **Addiction & Psychiatry**

November 20-21, 2023 | Vienna, Austria

