



# SCIENTIFIC PROGRAM



4<sup>th</sup> International Conference on **Applied Science**, **Engineering, and Technology** 

International Conference on **Optics, Photonics, and Lasers** 

3<sup>rd</sup> International Conference on **Aerospace, Mechanical, & Mechatronics Engineering** 

### **June 21-22, 2023 | Dubai, UAE**

Novotel Suites Dubai Mall of the Emirates, 2A Street - opposite Mall of The Emirates - Al Barsha -Al Barsha 1 - Dubai - United Arab Emirates Conference Code: MKJDCXDG



Day 1	June 21	2023

- 08:00-09:00 | Registrations
- 09:00-09:15 | Introduction & Opening Ceremony
- Conference Chair | Giovanni Perillo, University of Naples Parthenope, Italy

**Plenary Session** 

- Session Chair | Abdelmageed A. Elmustafa, Old Dominion University, Norfolk and Newport News, USA
- **09:15-10:00** | **Title: Interpenetrating Multiphase Turbulent Flows**Charles A. Petty, Michigan State University, USA
- 10:00-10:45 | Title: Research activities in the Applied Research Center Located inside Thomas Jefferson National Accelerator Facility Including Synthesize and RF Magnetron Sputtering of HEAs and Microelectronic Thin Films

Abdelmageed A. Elmustafa, Old Dominion University, Norfolk and Newport News, USA

#### 10:45-11:00 Networking & Refreshments Break

#### **Keynote Session**

- Sessions | Applied Science Engineering | Mechanical Engineering | Aerospace Engineering |
  Polymer Science & Composite Materials | Civil Engineering | Electrical and Electronic |
  Engineering | Materials Science | Manufacturing
  - Engineering | Biotechnology and Biomaterials | Chemical Engineering | Aerospace Systems and Technology | Aerospace Manufacturing Engineering
- 11:00-11:30 | Title: Self-Carried Nanodrug (SCND-SIS3) as a Targeted Therapeutic Agent for Cancer Hui Yao Lan, The Chinese University of Hong Kong, Hong Kong
- 11:30-12:00 | Title: Social Sustainability in New Millennium: a Challenge Cities Cannot Miss Giovanni Perillo, University of Naples Parthenope, Italy
- 12:00-12:30 | Title: Results of the Research of CAM Mechanisms in VÚTS Liberec Miroslav Václavík, VÚTS Liberec, The Czech Republic
- 12:30-13:00 | Title: Applied Science in Civil Engineering Lukas Vrablik, CTU in Prague, Czech Republic

#### 13:00-14:00 Group Photos & Lunch Break

**Keynote Session** 

Session Chair | Yuen Hong Tsang, The Hong Kong Polytechnic University, Hong Kong

14:00-14:30 | Title: Aerosol Jet Printed2D Materials basedSaturable Absorbers for Ultrafast Lasers Yuen Hong Tsang, The Hong Kong Polytechnic University, Hong Kong

#### **Invited Talks**

- Sessions | Lasers in Medicine and Biology | Quantum Optics | 2D Photonic Materials and Devices | Sensor Technology | Microscopy and Adaptive Optics | Applications of Photonic Technologies | Optoelectronic Devices | Laser Spectroscopy and Microscopy
- 14:30-14:55 | Title: Engineered Sandwich-structured Composite Wound Dressings with Unidirectional Drainage and Anti-adhesion Supporting Accelerated Wound Healing Wang Haipeng, Shandong University, China
- 14:55-15:20 | Title: New Optical Method for the Non-invasive Determination of the Sun Protection Factor of Sunscreens

Juergen Lademann, Charité University Medicine Berlin, Germany

15:20-15:45	Title: High Quality Factor Microresonators for Nonlinear and Quantum Optics  Igor A. Bilenko, Moscow State University, Russia
15:45-16:10	Title: Maskless Lithography Based on Digital Light Processing for Large-Area Fabrication of Two/Three-Dimensional (2D/3D) Microstructures
	Yung-Chun Lee, National Cheng Kung University, Tiwan
	16:20-16:25 Networking & Refreshments Break
	Poster Presentations
P-001	<b>Title: Respiration in Wavelengths using Laser Photoacoustic Spectroscopy System</b> Popa Cristina- Mihaela, National Institute for Laser Plasma and Radiation Physics (INFLPR), Romania
P-002	Title: Laser Spectroscopy for The Assessment of Volatile Organic Compounds as Important Precursors for Secondary Pollutants
	Bercu Mioara, National Institute for Laser Plasma and Radiation Physics (INFLPR), Romania
P-003	Title: Effect of Long Term-storage on Internal Atmosphere of Organic and Conventional Commercial Fruits using Laser Spectroscopy
	Bratu Ana-Maria, National Institute for Laser Plasma and Radiation Physics (INFLPR), Romania
P-004	Title: Formation of Semiconductor Nanocrystals based on Sulfide Zinc
	Aiman Akylbekova, L.N. Gumilyov Eurasian National University, Astana, Kazakhstan
	End of the Session
	Day 2 June 22, 2023
	Plenary Session
09:15-10:00	Title: Designing Architecture in Virtual Reality
	Michal Sourek, Czech Technical University, Prague
10:00-10:45	Title: Three Dimensional Interpenetrating Multiphase Turbulent Flows: Part II Charles A. Petty, Michigan State University, USA
	10:45-11:00 Networking & Refreshments Break
	<b>Keynote Session</b>
Session Chai	ir   Charles A. Petty, Michigan State University, USA
	Title: Formal Verification: Concept, Tools and Applications
	Nahla Elaraby, Technical University of Vienna - TU Wien, Austria
11:30-12:00	Title: Advanced Materials and Space Sustainability
	Loredana Santo, University of Rome Tor Vergata, Rome, Italy
12:00-12:30	Title: Structural Behaviour of 3D Stitched Sandwich Structures  Zhongwei Guan, Technology Innovation Institute, United Arab Emirates
12:30-13:00	Title: University - Industry Collaboration for Harnessing Emerging Technologies  Halim Hamid Redhwi, Dhahran Techno Valley Holding Company King Fahd University of  Petroleum & Minerals, Saudi Arabia
	13:00-14:00 Group Photos & Lunch Break
14:00-14:30	Title: Morphing Green Aircraft Design Technologies for Fuel Consumption Reduction Ruxandra Mihaela Botez, École de technologie supérieure, Université de Québec, Canada
	Invited Talks
14:30-15:00	Title: Dissolution of Non-functionalized and Functionalized Nanomaterials in Simulated Biological and Environmental Fluids  Ewa Cukrowska, North-West University, South Africa

Mohammed Krini, Aschaffenburg University of Applied Sciences Germany

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Vintual	Presentations

V-001	Keynote   Title: Hybrid Energy Harvesters And an Example Of Modeling Commerc	cial
	Piezoelectric	

Nazenin Gure, Marmara University, Istanbul, Turkey

#### V-002 | Invited | Title: High-resolution Retinal Imaging Mircea Mujat, Physical Sciences, Inc, USA

# V-003 | Keynote | Title: Mechanical and Electromagnetic Effects due Interactions of Individual Carbon Nanotubes with External field

Svetlana von Gratowski, Kotel'nikov Institute of Radioengineering and Electronics Russian Academy of Sciences, Russia

## V-004 | Keynote | Title: Lithographic Additive Manufacturing of Practical Components Soshu Kirihara, Joining and Welding Research Institute, Osaka University, Japan

V-005 | Invited | Title: Optics, Photonics, and Lasers Yang Yue, Xiian Jiaotong University, China

#### **End of the Session**

# **Inov SciTech**

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