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Tentative Program

International Conference on

Applied Physics and Engineering (ICAPE)

March 25-26, 2020 | Amsterdam, The Netherlands



APPLIED PHYSICS 2020

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Scientific Program

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Registrations
08:30-09:30

Opening Ceremony
09:30-09:55

Day 1 : March 25, 2020

Introduction 09:55-10:00

10:00-10:40

Title: Obtaining supercritical metal fluids by the electromagnetic implosion of thin cylindrical shells

Dr V. Antonov, SPbPU, Russia

10:40-11:20

Title: Spectroscopic signature of Pyrochlore Erbium Titanate nanocrystals precipitated in high phonon silicate matrix

HC Vasconcelos, Azores University, Portugal

Refreshments and Networking Break 11:20-11:40

11:40-12:20

Title: EUV-induced plasmas in EUV lithography tools

Job Backers Eindhoven University of Technology, Netherlands

Session Introduction

Sessions on: Theory of Relativity | Nanoscience and Nanotechnology | Condensed Matter Physics | Fluid dynamics | Quantum optics | Biophysics | Medical Physics | Plasma Physics | Accelerator Physics

12:20-12:50

Title: Porous Crack Media Being Use In Nosp (Natural -Organic Swimming Pool) Creation

Audrey Jean Jacinto Cruz -Consulta, Philippines

Lunch Break 12:50-13:50

13:50-14:50

Title: Investigation the Structural Changes, Optical and Non-linear Optical Properties in Cadmium Phosphate Glass System Containing Vanadium

Ahmed Hosny Hammad Hassan, King Abdulaziz University, Saudi Arabia

14:50-15:20

Title: Fabrication of a hybrid surface Nanocomposites for aluminum alloy by friction stir processing

Essam Bahgat Ezzat Moustafa, King Abdulaziz University, Saudi Arabia

Refreshments and Networking Break 15:20-15:40

Special Session

15:40-16:40

Title: TiO2 and Au-TiO2 Nanomaterials for Rapid Photocatalytic Degradation of Antibiotic Residues in Aquaculture Wastewater and river water samples

Do Chau Minh Vinh Tho, Can Tho University of Medicine and Pharmacy, Vietnam

16:40-17:20

Title: Programmable electronic synapse and nonvolatile resistive switching in MoS2 quantum dots

Anna Thomas, Indian Institute of Space Science and Technology, India

B2B Meetings & Networking

Day 2 : March 26, 2020

Keynote Forum

10:00-10:40

Title: Biosensor laboratory services in Telemedicine Solutions for Rural Areas

Hala ELsadek, Electronics Research institute, Egypt

10:40-11:20

Title: Macroscopic Quantum states at Ultra-low Temperature

William Halperin, Northwestern University, USA

Refreshments and Networking Break 11:20-11:40

11:40-12:20	**Title: Preconditioning boundary integral equations in electromagnetic scattering and thermonuclear energy research** **Bruno Carpentieri,** Free University of Bozen- Italy

Sessions on: Theory of Relativity | Nanoscience and Nanotechnology | Condensed Matter Physics | Fluid dynamics | Quantum optics | Biophysics | Medical Physics | Plasma Physics | Accelerator Physics | Atomic Force microscopy | Molecular imaging | Nuclear Astro Physics | Astrodynamics | Ballistics | Space Physics and technology | Computational Physics | Control theory | Digital electronics | Engineering Physics

12:20-12:50	**Title: Design and Development of load resilient mock-up ICRH system of Tokamak with variable load** **Abhinav Jain, SRF,** Thapar Institute of Engineering and Technology, India

Lunch Break 12:50-13:50

13:50-14:20	**Title: Reliability Study for Protons Transport Applied to Ultra-Thin Layers** **Gabriela Hoff,** Clinics Hospital of Porto Alegre – Medical Physics and Radiological Protection Brazil
14:20-14:50	**Title: Reconfigurable RF/Microwave Plasma Photonic Crystal and Antenna** **Dr Rana Pratap Yadav,** Thapar Institute of Engineering and Technology, India
14:50-15:20	**Title: Equilibrium Thermodynamic Properties of Chiral Skyrmions in a Ferromagnetic Material** **Dr Roberto Zivieri,** University of Messina, Italy

Young Scientist Forum

15:20-15:40	**Title: Importance of Body Stance in Fog Droplet Collection by the Namib Desert Beetle** **Unmeelan Chakrabarti,** University of Illinois, USA

Refreshments and Networking Break 15:40-16:00

B2B Meetings & Panel Discussions

Award and Closing Ceremony

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