

World Conference on

ADVANCED MATERIALS, NANOSCIENCE AND NANOTECHNOLOGY

&

World Conference on

CHEMISTRY AND CHEMICAL ENGINEERING

&

World Conference on

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

October 27-28, 2022 | Valencia, Spain



Hosting Organization:
Eurasia Conferences

Kemp House, 152-160 City Road, London, EC1V 2NX.

09:45-10:00 @ Introduction,
Welcome note and Conference
Inauguration
Conference Room: Hera

DAY 1
October 27, 2022

Keynote Sessions

- 10:00-10:30**
Title: Enhancement of Laser Energy Coupling into Bandgap Materials: Toward Understanding and Realization of New Irradiation Regimes
Prof. Nadezhda M. Bulgakova, HiLASE Centre, Institute of Physics of the Czech Academy of Sciences, 25241 Dolní Břežany, Czech Republic
- 10:30-11:00**
Title: Modern electronics assembly problems and solutions
Dr. inż. Jerzy Szałapak, Faculty of Mechatronics, Warsaw University of Technology, Poland

Tea and Refreshments Break 11:00-11:20

- 11:20-11:50**
Title: Semi-permeable membranes for the preparation of special chemicals
Pavel Izák, Czech Academy of Sciences, Institute of Chemical Process Fundamentals, Czech Republic
- 11:50-12:20**
Title: Computing with hybrid DFT methods interfaces between semiconductors
Prof. José C. Conesa, Institute of Catalysis and Petroleum Chemistry (ICP), CSIC, Madrid, Spain
- 12:20-12:50**
Title: Biphasic high-pressure CO₂ systems for the synthesis and modification of polymeric materials
Marina Pigaleva, Faculty of Physics, Moscow State University, Moscow, Russia

Session Wrap 12:50-13:00

Lunch Break 13:00-14:00

Keynote Speaker Sessions

- 14:00-14:30**
Title: Some remarks about using the knowledge management for the needs of intelligent urban areas (Smart Cities)
Prof. Jan Kazmierczak, Dean of the Faculty, Faculty of Organization and Management, Silesian University of Technology, Poland
- 14:30-15:00**
Title: Predictive control methods with applications to distributed and heterogeneous cyberphysical systems
J. M. Maestre, Department of Systems and Automation Engineering, University of Seville, Seville, Spain

Tea and Refreshments Break 15:00-15:20

15:20-15:50 **Title: Computational Nanomedicine: Predicting The Best Nanomaterials for Medicine**
Thomas J. Webster, Interstellar Therapeutics, Boston, USA

Speaker Sessions

15:50-16:10 **Title: Selective liquid-liquid extraction of cobalt(II) from aqueous solutions using ionic liquids as extractants and diluents**
Felipe Olea, Laboratory of Separation Processes Intensification (SPI), Department of Chemical and Bioprocess Engineering, University of Santiago de Chile (USACH), Estación central, Región Metropolitana, Chile

Poster Presentation 16:10-16:30

- Poster 1** **Title: The Effect of Carbon Particle Size and Morphology on Electrical Conductivity and Physico-Mechanical Properties of Cement-Based Materials**
Lenka Mészárossová, Institute of Technology of Building Materials and Components, Brno University of Technology, Faculty of Civil Engineering, Brno, Czech Republic
- Poster 2** **Title: Possibilities of using waste and secondary raw materials for silicate electro-conductive composites**
Šimon Baránek, Institute of Technology of Building Materials and Components, Brno University of Technology, Faculty of Civil Engineering, Brno, Czech Republic
- Poster 3** **Title: Effect of percolation threshold on the behavior of conductive cement paste in different exposure conditions**
Vít Černý, Institute of Technology of Building Materials and Components, Brno University of Technology, Faculty of Civil Engineering, Brno, Czech Republic

Closing Ceremony 16:30-16:45

Session Wrap 16:45-17:00

DAY 2
October 28, 2022

09:50-10:00 @ Session Introduction

Virtual session | Central European Time (CET)

Keynote Sessions

10:00-10:30 **Title: Identification of Solids for True Design and Detailed Characterization of Functional Solid Materials**
Bunsho Ohtani, Professor Emeritus, Hokkaido University and Nonprofitable Organization touche NPO, 1-6-414, North 4, West 14, Sapporo 060-0004, Japan

Title: Nanomaterials and Green Synthesized Nanocomposites for Nano-Biosensors

10:30-11:00

Prof. Monica Florescu, Transilvania University of Brasov, Faculty of Medicine, Brasov, Romania

Refreshments Break 11:00-11:10

Title: Welding of Inconel 718 alloy and its future perspective

11:10-11:40

Tushar Sonar, Department of Mechanical Engineering, G. S. Mandal's Maharashtra Institute of Technology, Aurangabad, Maharashtra State, India

Speaker Sessions

Title: Effect of Electromagnetic Treatment Combined With Chlorination Disinfection on Sea Lion Pool Water

11:40-12:00

Carlos Morales-Paredes, Instituto Universitario de Ingeniería de los Procesos Químicos, Universidad de Alicante, Alicante 03080, España

Title: Evaluation of the anti-fouling performance of knotted nylon fish farming nets coated with natural agents in real operation aquaculture conditions

12:00- 12:20

Sofia Papadaki, School of Chemical Engineering, National Technical University of Athens, Zografou Campus, Athens, GR-15700, Greece

Title: Prediction and Detection of Improving the Quality of Different Crops on Agricultural Dataset using ECNN

12:20- 12:40

Asadi Srinivasulu, Data Science Research Laboratory, BlueCrest University, Monrovia, Liberia-1000

Title: Facile Synthesis of Zinc Metal-Organic Framework (Zn-MOF) for Photocatalytic Abatement of Organic Pollutants

12:40- 13:00

Tarek Taha Ahmed Ali, Chemistry Department, Faculty of Science, Sohag University, Sohag 82524, Egypt

Lunch Break 13:00-14:00

Title: PIEZOELECTRIC ENERGY HARVESTERS USING NANOWIRES

14:00- 14:20

Dr. Bestley Joe S, Assistant Professor, Department of ECE, Kings Engineering College, Chennai, Tamilnadu, India

Title: Carbon-Encapsulated Iron Nanoparticles for Hydrogen Sulfide Removal

14:20- 14:40

Abid Meriem, Inorganic chemistry department, University of Alicante, San Vicente del Raspeig Road, s/n 03690 San Vicente del Raspeig, Alicante, Spain

Title: Titanium Metal-Organic Framework: Highly Efficient Photocatalysts for Wastewater Treatment

14:40- 15:00

Lobna A. E. Nassr, Chemistry Department, Faculty of Science, Sohag University, Sohag 82524, Egypt

Tea and Refreshments Break 15:00-15:10

- Title: Performance and Improvement of Linguistic Data Analysis on Different Languages Using Deep Learning Techniques**
15:10- 15:30 Asadi Srinivasulu, Data Science Research Laboratory, BlueCrest University, Monrovia, Liberia-1000
- Title: A Facile Route to the Synthesis of Full Inorganic Perovskite CsPbBr₃ films and their Photocatalytic Properties**
15:30-15:50 Lorenzo Sirna, Dipartimento di Scienze Chimiche, Università di Catania, and INSTM UdR Catania, Viale A. Doria 6, 95125 Catania, Italy
- Title: Towards Verifying UML Class Diagram and Formalizing Generalization/ Specialization Relationship with Mathematical Set Theory**
15:50-16:20 Kruti P. Shah, School of Electrical Engineering and Computer Science, University of North Dakota, Grand Forks, ND 58201, USA

Poster Presentation 16:20- 16:40

- Title: Design of high-value dried fruits and vegetables with extended shelf-life**
Poster 1 Vasiliki Oikonomopoulou, School of Chemical Engineering, National Technical University of Athens, 9 Iroon Polytechniou, Zografou Campus, 15780, Athens, Greece

Session Wrap 16:40- 17:00

Closing Ceremony

