

COFFEE BREAK & POSTER SESSION (CONTINUED)

ICEPR 121 - The investigation of UV-C LED arrangement on the sterilization of Escherichia coli in flow reactors

Presenter: Chien-Ping Wang, National Taipei University of Technology, Taiwan

ICEPR 136 - Environmental pollution monitoring using femtosecond laser-irradiated structure device as a flexible gas sensing platform

Presenter: Tien-Li Chang, National Taiwan Normal University, Taiwan

ICEPR 131 - Development of Pollutant-Targeted Recognition Slow-Release Materials and Research on Petrochemical Wastewater Treatment

Presenter: Meng Fanbin, SINOPEC Research Institute of Petroleum Processing Co., Ltd, China

ICEPR 114 - Coupling Leaching-Bioremediation for Petroleum-Contaminated Soil

Presenter: Jiang Jianlin, SINOPEC Research Institute of Petroleum Processing Co., Ltd, China

ICNFA 128 - Antivirulence Effect of mBTL Loaded Calcium Alginate Nanoparticles Against Pseudomonas Aeruginosa

Presenter: Fadilah Aleanizy, King Saud University College of Pharmacy, KSA

ICNFA 132 - Encapsulation of Sertraline in Biodegradable Polymeric Nanoparticles

Presenter: Bushra Alquaideib, King Saud University College of Pharmacy, KSA

ICERT 115 - Electrochemical Property of Activated Carbon Monolith from Oat for Supercapacitor Electrode

Presenter: Tae Ho Yoon, GIST, South Korea

POLLUTION & HEALTH ISSUES

Session Chair: Dr. Claudia Ortiz Calderón, University of Santiago de Chile, Chile

11:40 - 11:55, ICEPR 110 - Biotransformation of brewing by-products to reduce the current food waste and relieve associated environmental pollution

Presenter: Jiao Zhang, South East Technological University, EnviroCORE research group, Ireland

11:55 - 12:10, ICEPR 133 - Kuwait Environmental Remediation Program - North Kuwait Excavation, Transportation & Remediation Zone II

Presenter: Muthanna Almumin, Kuwait Oil Company, Kuwait

12:10 - 12:25, ICEPR 145 - Analysis of indoor and outdoor noise quality at the University - A Case Study

Presenter: Maruthi Sandesh Maganti, Mahindra University, India

12:25 - 12:40, ICEPR 147 - Non-target screening of organic micropollutants in Durgam cheruvu lake, India

Presenter: Sai Krishna Duddupudi, Mahindra University, India

BIOTECHNOLOGY II

Session Chair: Dr. Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy

02:25 - 02:40, ICBB 114 - Development of sporobeads coated with hEcad1/2 for rapid detection and capturing of pathogenic Listeria monocytogenes

Presenter: Khosrow Mohammadi, University of Helsinki, Finland

02:20 - 02:55, ICBB 123 - Improving the safety quality of Lao traditional fermented bamboo shoot products (Nor Mai Som) by the application of Lactiplantibacillus plantarum strain BBS 13, a potential probiotic bacterium, as a starter culture

Presenter: Viengvilaiphone Botthoulath, Graduate School, UPLB, College, Philippines

02:55 PM - 03:15 PM: Coffee Break

GLOBAL WARMING & CLIMATE CHANGE

Session Chair: Dr. Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy

03:15 - 03:30, ICEPR 115 - Deep Learning-based Prediction for Fine dust in Seoul, Korea

Presenter: Jonggu Kang, Pukyong National University, South Korea

03:30 - 03:45, ICEPR 116 - Atmospheric correction of Sentinel-2 images for agricultural applications

Presenter: Ms. Seoyeon Kim, Pukyong National University, South Korea

03:45 - 04:00, ICEPR 117 - Development of a smoke plume detection model using GEMS satellite data

Presenter: YEMIN JEONG, Pukyong National University, South Korea

04:00 - 04:15, ICEPR 118 - Rasterization of Mountain weather temperature data using spatial statistical methods

Presenter: Youjeong Youn, Pukyong National University, South Korea

07:00 PM - 09:00 PM - Gala Dinner

Accepted papers may be published in one of these journals after the 2nd peer review process

- International Journal of Theoretical and Applied Nanotechnology (IJTAN)
- International Journal of Environmental Pollution and Remediation (IJEPR)
- Journal of Biomedical Engineering and Biosciences (JBEB)
- Journal of Fluid Flow, Heat and Mass Transfer (JFFHMT)

Next Congress:

**10th World Congress on New Technologies
NewTech 2024 Berlin, Germany - August, 2024**



9TH WORLD CONGRESS ON NEW TECHNOLOGIES (NEWTECH 2023)

9 - 11 August, 2023

Brunel University, London, United Kingdom

PROGRAM



**IC²⁰²³
NFA**

14th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA 2023)

**IC²⁰²³
EPR**

13th International Conference on Environmental Pollution and Remediation (ICEPR 2023)

**IC²³
BB**

9th International Conference on Bioengineering and Biotechnology (ICBB 2023)

**IC²⁰²³
ERT**

7th International Conference on Energy Research and Technology (ICERT 2023)

NEWTECH 2023 CONFERENCE CHAIRS:



Dr. Devika Chithrani
University of Victoria, Canada
Congress Chair



Dr. Domenico Lombardo
CNR - (Consiglio Nazionale delle Ricerche), Italy
Local Chair



NewTech 2023 Program
<https://newtechcongress.com/>



NewTech 2023 Proceedings
info@newtech.com

11:00 AM -
11:40 AM

11:40 AM -
12:40 PM

DAY 1 (WEDNESDAY) - AUGUST 9, 2023 - VIRTUAL**DAY 2 (THURSDAY) - AUGUST 10, 2023**

08:00 AM - 09:00 AM

Registration

09:00 AM - 09:15 AM

Official Opening, Dr. Devika Chithrani, University of Victoria, Canada

09:15 AM - 10:00 AM

ICNFA 2023 KEYNOTE LECTURE - PHYSICAL

Nanomedicine as a Promising Approach to Overcome Current Challenges in Cancer Radiotherapy
Dr. Devika Chithrani, University of Victoria, Canada

10:00 AM - 10:50 AM

ICBB 2023 PLENARY LECTURE - VIRTUAL

Biocompatible surfaces for biomedical devices base on the intermediate water concept
Dr. Masaru Tanaka, Kyushu University, Japan

10:50 AM - 11:10 AM - Coffee Break

NANOMATERIALS CHARACTERIZATION & APPLICATION

Session Chair: Dr. Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy

11:10 - 11:25, ICNFA 124 - Effects of Chlorine and Fluorine on the Vibrational Properties of Nanoporous Germanium: a theoretical approach
Presenter: Dr. Alejandro Trejo Baños, Instituto Politécnico Nacional, ESIME Culhuaca, Mexico

11:25 - 11:40, ICNFA 107 - Formulation, Optimization and Invitro Characterization of Lipid-Based Nanoparticles for Effective Delivery to The Liver
Presenter: Dina Mohamed Gaber Abdelhamid, Arab Academy for Science, Technology and Maritime Transport, Egypt

11:10 AM - 12:25 PM

11:40 - 11:55, ICNFA 119 - Textile Coated with Mercaptoethane Sulfonate-functionalized Silver Nanoparticles with Virucidal Activity against SARS-CoV-2
Presenter: Lucie Ulrychová, Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences, Czech Republic

11:55 - 12:10, ICNFA 126 - Manipulating Bubble Dynamics and Heat Transfer using 3D Superbiphilic Micro/Nanostructures
Presenter: Huihe Qiu, The Hong Kong University of Science and Technology, China

12:10 - 12:25, ICNFA 108 - Nano Phase-containing Al-0.3Mn Alloy for Potential EV Applications: Microstructure, Tensile Behavior and Electrical Conductivity
Presenter: Henry Hu, University of Windsor, Canada

12:25 PM - 12:30 PM - Group Photo
 12:30 PM - 1:30 PM: Lunch

01:30 PM - 02:20 PM

ICNFA 2023 PLENARY LECTURE - VIRTUAL

Nanomaterials-based Electrochemical Sensors for the Detection of Emerging Contaminants
Dr. Matiar Howlader, McMaster University, Canada

ENVIRONMENT PROTECTION

Session Chair: Dr. Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy

02:20 - 02:35, ICEPR 139 - Organic contaminants released form plastics
Presenter: José P. da Silva, University of the Algarve, Portugal

02:35 - 02:50, ICEPR 138 - Adsorption of organic dye on Pillared Clays
Presenter: Hari Desai, IIT Madras, India

02:20 PM - 03:20 PM

02:50 - 03:05, ICEPR 123 - Studies for mitigation measures for dust resuspension from stockpiles
Presenter: Mehta Umangi Hemant, Indian Institute of Technology Bombay, India

03:05 - 03:20, ICEPR 106 - Tight Ultrafiltration membranes comprising various nanostructure materials for enhanced removal and selectivity of Heavy metals from wastewater
Presenter: Ibrahim Hotan Alsohaimi, Jouf University, KSA

03:20 PM - 03:40 PM - Coffee Break

ENERGY STORAGE & CONSUMPTION

Session Chair: Dr. Huihe Qiu, The Hong Kong University of Science and Technology, China

03:40 - 03:55, ICERT 110 - A Conceptual Model for Clothes Drying Using Composite Energy Sources
Presenter: Michael Conyette, Okanagan College, Canada

03:40 PM - 04:40 PM

03:55 - 04:10, ICERT 115 - Electrochemical Property of Activated Carbon Monolith from Oat for Supercapacitor Electrode
Presenter: Tae Ho Yoon, GIST, South Korea

04:10 - 04:25, ICERT 117 - Production of Bio-oil by co-pyrolysis of the coffee and tire wastes.
Presenter: Abrar Inayat, University of Sharjah, UAE

04:25 - 04:40, ICERT 116 - Experimental testing of a 400 kWh steel slag-based Thermal Energy Storage prototype for industrial waste heat recovery applications
Presenter: Daniel Bielsa, Basque Research and Technology Alliance (BRTA), Spain

DAY 3 (FRIDAY) - AUGUST 11, 2023

09:00 AM - 09:45 AM

ICERT 2023 KEYNOTE LECTURE - VIRTUAL

Accelerating Renewable Energy by Artificial Intelligence
Dr. Fausto Garcia Marquez, University of Castilla-La Mancha, Spain

09:45 AM - 11:00 AM

SOIL POLLUTION & TREATMENT

Session Chair: Dr. Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy

09:45 - 10:00, ICEPR 101 - Modeling Diffuse Nutrient and Sediment Pollution affecting Lake Palakpakin, Laguna using QSWAT
Presenter: Fellona Sealtielle Anne Sarte, Mapúa University, Philippines

10:00 - 10:15, ICEPR 129 - Ball-milled biochar and its effect on remediation of soil from industrial area
Presenter: Mariusz Gusiatin, University of Warmia and Mazury in Olsztyn, Poland

10:15 - 10:30, ICEPR 112 - Optimization of mercury remediation from a contaminated industrial park soil via thermo desorption: an experimental approach
Presenter: Andrea Pacini, Alessandra De Folly D'Auris, Alessandro Conte

10:30 - 10:45, ICEPR 135 - Application of synthetic and natural surfactants for mobilizing PAHs in marine sediments for remediation purposes
Presenter: Gabriele Moscatelli, ENEA, SSPT-PROTER Division, University of Rome "La Sapienza", Italy

10:45 - 11:00, ICEPR 120 - Rehabilitation and Landscape Integration of a Tailings Deposit in Atacama, Chile
Presenter: Claudia Ortiz C., Juan Palma, Pamela Valenzuela

11:00 AM - 11:40 AM

COFFEE BREAK & POSTER SESSION

Session Chair: Dr. Devika Chithrani, University of Victoria, Canada & Dr. Domenico Lombardo, CNR - (Consiglio Nazionale delle Ricerche), Italy

ICNFA 140 - Magnetic smart systems for theranostic
Presenter: Denisa Ficai, University POLITEHNICA of Bucharest, Romania

ICNFA 138 - NEW PERSPECTIVES OF THE SILICATES BASED MATERIALS: FROM CLASSICAL TO EMERGING APPLICATIONS OF GLASSES
Presenter: Anton Ficai, University POLITEHNICA of Bucharest, Romania

ICEPR 109 - Investigating the Function, Persistence, and Biosafety of Constructed Microbiomes for Improved Bioremediation of Petroleum-impacted Soil
Presenter: Mr. Mutian Wang, South East Technological University, Ireland

ICPR 108 - Oxidative adsorption of arsenic by Fe-Mn oxides
Presenter: Jae Gon Kim, Korea Institute of Geoscience and Mineral Resources, South Korea