



ÓBUDA UNIVERSITY

REJTŐ SÁNDOR FACULTY OF LIGHT INDUSTRY  
AND ENVIRONMENTAL ENGINEERING



The 13<sup>th</sup> ICEEE-2022

The 13<sup>th</sup> ICEEE-2022 Online  
International Annual Conference on  
*“Global Environmental Development & Sustainability: Research,  
Engineering & Management”*

**ONLINE**

# **SCIENTIFIC PROGRAM**

**the 13<sup>th</sup> ICEEE-2022**

**17<sup>th</sup> – 18<sup>th</sup> of November 2022**

**Budapest – Hungary**

**2022**

## **Attention:**

The Conference will be held through **Microsoft Teams**.

### **To join the Conference:**

There is a short guide with useful information about how to use the Microsoft Teams during the Conference

Each one of the participant you have the link of the conference by e-mail

The time of the Conference is related to the **Hungarian time**.  
Please check the time with your time at home

## **Time of Oral and poster Presentations Online (Microsoft Teams)**

<b>Presentation Type:</b>	<b>Total Allotted Time:</b>
• Plenary speaker	25 min
• Keynote speaker	20 min
• Featured speaker	10 min
• Poster	5 min

**The time is very limited**  
**The official language of all the presentations including oral or poster speaker is English**

# **SCIENTIFIC PROGRAM**

**17<sup>th</sup> of November 2022 (Thursday)**

**09:00 a.m. – 09:30 a.m.**

## ***Opening Ceremony***

***Prof. Dr. Hosam BAYOUMI HAMUDA***

*President, International Council of Environmental Engineering  
Education  
Conference Chair*

***Dr. Rita BODÁNÉ-KENDROVICS***

*Director, Institute of Environmental Engineering & Natural  
Sciences*

***Dr. László KOLTAI***

*Dean, Rejtő Sándor Faculty of Light Industry & Environmental  
Engineering*

***Prof. Dr. László Gulácsi***

*Vice-Rector, Óbuda University*

***Prof. Dr. Sadhan Kumar Ghosh***

***Prof. Dr. Borbála Biro***

*Honour Guests of the Conference*

**09:30 – 11:10**

**Plenary Session**

**Chair of the Session:**

**Rita BODÁNE-KENDROVICS**

**09:30 – 09:55**

**SADHAN KUMAR GHOSH**

*Centre for Sustainable Development & Resource Efficiency Management, Faculty council of Engineering and Technology; Jadavpur University, Kolkata - India*

**ACHIEVING SDGS THROUGH WASTE MANAGEMENT IN ASIA PACIFIC.**

**09:55 – 10:20**

**Borbála BIRÓ<sup>1</sup>, Zsolt KOTROCZÓ<sup>1</sup>, Hosam E.A.F. BAYOUMI HAMUDA<sup>2</sup>**

*<sup>1</sup>Department of Agri-Environmental Studies, Hungarian University of Agriculture and Life Sciences, Budapest - Hungary,*

*<sup>2</sup>Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

**REVITALIZATION OF DEGRADED/CONTAMINATED SOIL AND  
DEVELOPMENT OF APPROPRIATE SOILBIOLOGICAL  
CHARACTERISTICS – A CASE STUDY**

**Technical Session**

**MICROBIOLOGY, SOIL BIOLOGY, SOIL  
QUALITY AND PLANT SESSION**

**Session (A)**

**Chairman: Borbála BIRÓ**

**10:30 – 11:50**

**Keynote:**

**Bhanu Singh PANWAR<sup>1</sup>, S.K. VARSHNEY<sup>2</sup>, Hosam E.A.F. BAYOUMI  
HAMUDA<sup>3</sup>, Borbála BIRÓ<sup>4</sup>**

*<sup>1</sup>Department of Soil Sciences, CCS Haryana Agricultural University, Hisar - India*

*<sup>2</sup>Ministry of Science and Technology, Government of India, Department of Science and  
Technology, Technology Bhawan, New Mehrauli Road, New Delhi - India*

*<sup>3</sup>Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light  
Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

*<sup>4</sup>Hungarian University of Agriculture and Life Sciences, Budapest - Hungary*

**PROTECT SOIL FOR SURVIVAL OF MANKIND**

**Oral:**

**Kamelia Benotmane HESNI<sup>1</sup>, Mehdi BOUKHEROUFA<sup>2</sup>, Imene KAHLI<sup>1</sup>,  
Rached HADIBY<sup>3</sup>, Ferial Sakraoui<sup>2</sup>**

*<sup>1</sup>Soil and Sustainable Development Laboratory, Department of Biology, Faculty of Science,  
Badji Mokhtar Annaba University, Annaba - Algeria*

*<sup>2</sup>Eco biology Laboratory for Marine Environments and Coastal Areas, Faculty of Sciences,  
Badji Mokhtar Annaba University, Annaba - Algeria*

*<sup>3</sup>Laboratory Ecobiology of Marine and Coastal Environments, Annaba - Algeria*

**IMPACT OF WILD BOAR (SUS SCROFA) ROOTING ON THE PHYSICO-  
CHEMICAL PROPERTIES OF SOIL IN THE EDOUGH FOREST  
(NORTHEAST, ALGERIA)**

**Shraddha JOSHI<sup>1</sup>, Jyoti UPADHYAY<sup>1</sup>, Souradeep ROY<sup>2</sup>, Aashish  
MATHUR<sup>2</sup>**

*<sup>1</sup>Department of Allied Sciences, School of Health Sciences and Technology, University of  
Petroleum and Energy Studies, Dehradun - India*

*<sup>2</sup>Centre for Interdisciplinary Research and Innovations (CIDRI), University of Petroleum and  
Energy Studies, Dehradun - India*

**SMART NANO-SENSORS FOR FUTURISTIC AGRICULTURE LEADING  
TOWARDS ENVIRONMENT SUSTAINABILITY & NUTRITION SECURITY**

**Emőke IMRE<sup>1</sup>, Miklós JUHÁSZ<sup>1</sup>, Ágnes BÁLINT<sup>3</sup>**

*<sup>1</sup>Bánki Donát Faculty, Óbuda University, and EKIK Hydro-Bio-Mechanical Systems Research Center, Budapest - Hungary*

*<sup>2</sup>Debrecen University, Debrecen - Hungary*

*<sup>3</sup>Institute of Environmental Engineering and Natural Sciences, Óbuda University, Budapest, Hungary, and EKIK Hydro-Bio-Mechanical Systems Research Center, Budapest - Hungary*

## **COMPARING SALINE AND QUICK CLAYS**

**Poster:**

**Ádám FEHÉR, Natalia PITTA-OSES, Krisztián KATONA, Csaba CENTERI**

*Department of Wildlife Biology and Management, Institute for Wildlife Management and Nature Conservation, University of Agriculture and Life Sciences, Gödöllő - Hungary*

## **COMPARISON OF WILD BOAR EFFECTS ON SOIL THICKNESS IN FORESTS**

**Máté HORVÁTH, Hosam E.A.F. BAYOUMI HAMUDA**

*Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest – Hungary*

## **DETERMINATION THE IMPACTS OF MUNICIPAL SEWAGE SLUDGE TREATMENTS USED FOR GROWING COMMON BEAN AND SOME ESSENTIAL PLANT NUTRIENT CONTENTS IN SLIGHT ACIDIC SOIL**

**Albert ONDRIK, Hosam E.A.F. BAYOUMI HAMUDA**

*Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest – Hungary*

## **COMPARATIVE STUDIES ON SOIL BIOLOGICAL ASSESSMENT: PESTICIDE SENSITIVITY OF MICROORGANISMS MEASURED UNDER LABORATORY CONDITIONS**

**Mikhailo SLIVKA<sup>1,2</sup>, Olexander MOYZESH<sup>1</sup>, Hanna GRYGORKA<sup>1</sup>, Nataliya KOROL<sup>1</sup>, Maksym FIZER<sup>3</sup>, Ruslan MARIYCHUK<sup>2</sup>**

*<sup>1</sup>Uzhhorod National University, Uzhhorod - Ukraine*

*<sup>2</sup>University of Presov, Presov - Slovak Republic*

*<sup>3</sup>Institute of Chemistry Slovak Academy of Sciences, Bratislava - Slovak Republic*

## **SUSTAINABLE REAGENTS FOR PRODUCTION OF FUSED HETEROCYCLES VIA ELECTROPHILIC HETEROCYCLIZATION**

**Mikhailo SLIVKA<sup>1,2</sup>, Olexander MOYZESH<sup>1</sup>, Hanna GRYGORKA<sup>1</sup>,  
Nataliya KOROL<sup>1</sup>, Maksym FIZER<sup>3</sup>, Ruslan MARIYCHUK<sup>2</sup>**

*<sup>1</sup>Uzhhorod National University, Uzhhorod - Ukraine*

*<sup>2</sup>University of Presov, Presov - Slovak Republic*

*<sup>3</sup>Institute of Chemistry Slovak Academy of Sciences, Bratislava - Slovak Republic*

## **COMFA STUDY AS AN EFFICIENT APPROACH FOR THE DESIGN OF BIOLOGICALLY ACTIVE BIS-1,2,4-TRIAZOLES**

**Asmaa Lotfi ALALLAF<sup>1</sup>, Metwally KOTTB<sup>2</sup>, Ahmed K. EL-SAYED<sup>3</sup>,  
Hesham Mohamed SHAFIK<sup>1</sup>**

*<sup>1</sup>Botany Department, Faculty of Science, Port Said University, Port Said - Egypt*

*<sup>2</sup>Botany Department, Faculty of Science, Suez Canal University, Egypt*

*<sup>3</sup>Botany and Microbiology Department, Faculty of Science, Damietta University, Damietta -  
Egypt*

## **ANTIFUNGAL ACTIVITY OF VOLATILES EMITTED FROM LIVING CULTURES OF CHLORELLA VULGARIS, DESERTIFILUM THARENSE, AND NAVICULA ARENARIA**

**Technical Session      MICROBIOLOGY, SOIL BIOLOGY, SOIL  
QUALITY AND PLANT SESSION**

**Session (B)**

**Chairman:                      Hosam E.A.F. BAYOUMI HAMUDA**

**12:00 – 13:20**

**Keynote:**

**Lyudmyla SYMOCHKO<sup>1,2</sup>**

*<sup>1</sup>Coimbra University, Coimbra-Portugal, <sup>2</sup>Uzhhorod National University, Uzhhorod - Ukraine*

**CONCEPT «ONE HEALTH»: SUSTAINABILITY AND BIOSECURITY IN ECOSYSTEMS**

**Sándor KUKOVICS<sup>1,2</sup>, Ferenc KUKOVICS<sup>1</sup>, Zoltán NAÁR<sup>3</sup>**

*<sup>1</sup>Hungarian Sheep and Goat Dairying Public Utility Association, Herceghalo - Hungary*

*<sup>2</sup>Sheep and Goat Products' Board, Várpalota - Hungary*

*<sup>3</sup>Tokaj-Hegyalja University, Sárospatak - Hungary*

**MEAT OR MEAT-TO-BE-PLANT-BASED VS MEAT-BASED PROTEIN**

**Oral:**

**P. SENTHILVALAVAN<sup>1</sup>, M.V. SRIRAMACHANDRASEKHARAN<sup>1</sup>, R.  
MANIVANNAN<sup>1</sup>, C. RAVIKUMAR<sup>2</sup>**

*<sup>1</sup>Department of Soil Science and Agricultural Chemistry, Faculty of Agriculture, Annamalai University*

*Annamalainagar, Tamilnadu - India*

*<sup>2</sup>Department of Agronomy, Faculty of Agriculture, Annamalai University*

*Annamalainagar, Tamilnadu - India*

**RESTORATION OF PROBLEM SOILS USING BIOCHAR: A COMPLETE NATURAL THROUGHPUT FOR SUSTAINABLE LAND AND CROP PRODUCTIVITY**



**Lamia BOULAOUIDAT, Chaouki BENABBAS**

*Research Centre for Spatial Planning, 1-University of Jijel, Jijel - Algeria*

## **RECENT AND CURRENT TECTONICS IN THE TELL NORD CONSTANTINOIS: IMPACTS ON THE STABILITY OF THE LAND**

**Poster:**

**Viktor GRÓNÁS, Csaba CENTERI, Márk PÁLFI**

*Institute of Wildlife Management and Nature Conservation, Hungarian University of  
Agriculture and Life Sciences, Gödöllő - Hungary*

## **SOIL ASPECTS OF A BIODIVERSITY MANAGEMENT PLAN FOR A SOLAR PARK**

**Fatima ELLAMTI, Zakaria MENNANE, Noureddine ELMTILI**

*Laboratory of Biology and Health, Department of Biology, Faculty of Sciences, Abdelmalek  
Essaadi University, M'hanech II, Tetouan - Morocco*

## **HYGIENIC AND PHYSICOCHEMICAL QUALITY AND RESEARCH OF ANTIBIOTIC RESIDUES IN MILK MARKETED IN TETOUAN, MOROCCO**

**Mostafa AHMED<sup>1,2</sup>, Daa ATTIA<sup>3</sup>, Nadia MOHAMED<sup>2</sup>, Ebtesam  
ABDELMONEEM<sup>2</sup>, Mohamed ABDEL-SHAKUR<sup>2</sup>, Kincső DECSI<sup>4</sup>, Zoltán  
TÓTH<sup>5</sup>**

<sup>1</sup>*Festetics doctoral school, Hungarian University of Agriculture and Life Sciences, Georgikon  
Campus, Keszthely - Hungary*

<sup>2</sup>*Biochemistry Department, Faculty of Agriculture, Cairo University, Cairo - Egypt*

<sup>3</sup>*Food Toxicology and Contaminants Department, National Research Centre, Dokki, Cairo -  
Egypt*

<sup>4</sup>*Department of Plant Physiology and Plant Ecology, Campus Keszthely, Hungarian  
University of Agriculture and Life Sciences Georgikon, Keszthely - Hungary*

<sup>5</sup>*Institute of Agronomy, Hungarian University of Agriculture and Life Sciences, Georgikon  
Campus Keszthely - Hungary*

## **ANTIOXIDANT ACTIVITY OF *Azadirachta indica* LEAF SUCCESSIVE EXTRACTS AND THE SUSCEPTIBILITY OF DIFFERENT PATHOGENIC BACTERIA AND MYCOTOXIGENIC FUNGI TO ITS GREEN-CHEMICALLY SYNTHESIZED SILVER NANOPARTICLES AND VARIOUS EXTRACTS**

**Youssra BELHADJ, Zakaria MENNANE, Nouredine ELMTILI**

*Food and Health, Laboratory: Biology and Health, Department of Biology, Faculty of Sciences, Abdelmalek Essaadi University, M'hanech II, Tetouan - Morocco*

**MICROBIOLOGICAL CHARACTERIZATION OF DIFFERENT OF FRESH AND PROCESSED FRUIT PRODUCTS MARKETED IN THE MARKETS OF THE PROVINCE OF TETOUAN**

**Dominika SZÚCS, Hosam E.A.F. BAYOUMI HAMUDA**

*Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest – Hungary*

**THE EFFECT OF UREA AND UREASE ENZYME INHIBITOR ON THE FUNCTIONAL DIVERSITY OF THE SOIL MICROBIAL COMMUNITY**

**Technical Session      MICROBIOLOGY, SOIL BIOLOGY, SOIL  
QUALITY AND PLANT SESSION**

**Session (C)**

**Chairman:              Lyudmyla SYMOCHKO**

**13:30 – 14:20**

**Keynote:**

**Hosam E.A.F. BAYOUMI HAMUDA<sup>1</sup>, Lyudmyla SYMOCHKO<sup>2,3</sup>**

*<sup>1</sup>Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest – Hungary*

*<sup>2</sup>Coimbra University, Coimbra-Portugal, <sup>3</sup>Uzhhorod National University, Uzhhorod - Ukraine*

**SOIL MICROBIOMES AND PROTECTION OF SOIL QUALITY**

**Oral:**

**Hassni BELAIDI<sup>1</sup>, Saida KITOUNI<sup>2</sup>, Smaine CHELLAT<sup>1</sup>**

*<sup>1</sup>Geology and Environment Laboratory, University of Constantine 1, Constantine – Algeria*

*<sup>2</sup>Department of Process Engineering, Faculty of Process Engineering, University Salah Bounider Constantine 3, Constantine - Algeria*

**PROSPECTIVES, CHALLENGES AND CONDITION FOR THE USE OF  
FELDSPAR CONTENT IN IGNEOUS ROCKS AS SOURCE OF POTASSIUM  
(K) USING IN AGRICULTURE**

**Bhanu Singh PANWAR<sup>1</sup>, Olha A. KHLIESTOVA<sup>2,3</sup>, Katarzyna Ewa  
BUCZKOWSKA<sup>2,4</sup>, Baturalp YALCINKAYA<sup>2</sup>, Milan BOUSA<sup>2</sup>**

*<sup>1</sup>Department of Soil Sciences, CCS Haryana Agricultural University, Hisar - India*

*<sup>2</sup>Department of Material Science, Faculty of Mechanical Engineering, Technical University of Liberec, Liberec - Czech Republic*

*<sup>3</sup>Department of Primary Science Institute of Modern Technologies, Pryazovskyi State Technical University, Dnipro -Ukraine*

*<sup>4</sup>Department of Materials Technology and Production Systems, Faculty of Mechanical Engineering, Lodz University of Technology, Lodz - Poland*

**PREVENTIVE APPLICATION OF UNTREATED CITY SEWAGE/SEWER  
WATER FOR IRRIGATION IN CEREAL CROPS AVOIDING HEAVY METALS  
POLLUTION IN SOIL-PLANT ECOSYSTEM**

## **Adebayo-ADEWUNMI, Raimot ADEJUMOKE**

*Department of Biology Education, School of Science Education,  
Federal College of Education (Technical) Akoka- Yaba, Lagos State - Nigeria*

## **ORNAMENTAL PLANTS: ECONOMIC IMPORTANCES AND COMMON TYPES FOUND IN NIGERIA**

**Poster:**

### **Csaba CENTERI<sup>1</sup>, Viktória VONA<sup>2</sup>, Márton VONA<sup>3</sup>, Zsolt BIRÓ<sup>1</sup>**

*<sup>1</sup>Institute for Wildlife Management and Nature Conservation, Hungarian University of Agriculture and Life sciences, Gödöllő - Hungary*

*<sup>2</sup>Faculty of Agricultural and Food Sciences, Széchenyi István University, Mosonmagyaróvár - Hungary, H-9200, Mosonmagyaróvár - Hungary*

*<sup>3</sup>Csernozjom Ltd., Nagykörű - Hungary*

## **EFFECTS OF MOLES ON SOIL PROPERTIES ON GRASSLANDS**

### **Csaba CENTERI<sup>1</sup>, Viktória VONA<sup>2</sup>, Márton VONA<sup>3</sup>, Eszter TÓTH<sup>4</sup>, Zsolt BIRÓ<sup>1</sup>, Alfréd SZILÁGYI<sup>1</sup>**

*<sup>1</sup>Institute for Wildlife Management and Nature Conservation, Hungarian University of Agriculture and Life Sciences, Gödöllő- Hungary*

*<sup>2</sup>Faculty of Agricultural and Food Sciences, Széchenyi István University, Mosonmagyaróvár - Hungary*

*<sup>3</sup>Csernozjom Ltd., Nagykörű - Hungary*

*<sup>4</sup>Institute for Rural Development and Sustainable Management, Hungarian University of Agriculture and Life Sciences, Budapest - Hungary*

## **DEVIATION OF SOIL NUTRIENT CONTENT ON A PERMACULTURE FARM**

### **Monsif ELMADANY<sup>1</sup>, Fatima ELAAMRI<sup>2</sup>, Mustapha HASSOUN<sup>3</sup>, Nouredine ELMETILI<sup>1</sup>**

*<sup>1</sup>Laboratory of Food Science and health, Department of Biology, Abdelmalek Essaadi University, Tetouan - Morocco*

*<sup>2</sup>National Institute of Fisheries Research, M'diq - Morocco*

*<sup>3</sup>Applied Phycology-Mycology Group, Ecology, Biodiversity and Environment Laboratory, Department of Biology, Faculty of Sciences, Abdelmalek Essaâdi University, M'Hannech II, Tétouan - Morocco*

## **TOTAL CARBOHYDRATE CONTENT EXTRACTION FROM RUGULOPTERYX OKAMURAE SEAWEED IN THE MOROCCAN COAST: OPTIMIZATION USING RESPONSE SURFACE METHODOLOGY**

**Laila FAROUK<sup>1,2</sup>, Zakaria MENNANE<sup>1</sup>, Amale MOUJAHID<sup>2</sup>, Nouredine ELMTILI<sup>1</sup>**

<sup>1</sup>*Laboratory of Biology and health, Department of Biology, Faculty of Sciences, Abdelmalek Essadi University, Tetouan - Morocco*

<sup>2</sup>*Medical analysis laboratory, Bacteriology Department, Provincial Hospital of Tetouan, Tetouan - Morocco*

## **PHENOTYPIC PROFILE OF ENTEROBACTERIACEAE ISOLATED AT THE PROVINCIAL HOSPITAL OF TETOUAN**

**Sanaa TAHIRI<sup>1,2</sup>, F. ELAAMRI<sup>2</sup>, H. LOULAD<sup>2</sup>, N. ELMTILI<sup>1</sup>**

<sup>1</sup>*LFHS, Laboratory of Food and Health Sciences, Science Department, Abdelmalek Essaadi University, Tetouan - Morocco*

<sup>2</sup>*Shellfish Farming Station, INRH, National Institute of Fisheries Research, Amsa - Morocco*

## **EFFECT OF DIFFERENT CULTURE MEDIA ON THE CELLS GROWTH OF TETRASELMIS SUECICA**

**Malihe MASOUDI<sup>1</sup>, Csaba CENTERI<sup>1</sup>, Gergely JAKAB<sup>2</sup>, Viktória VONA<sup>3</sup>, Márton VONA<sup>3</sup>**

<sup>1</sup>*Institute of Natural Resources Management, the Hungarian University of Agriculture and Life Sciences, Gödöllő - Hungary*

<sup>2</sup>*Geographical Institute, Research Centre for Astronomy and Earth Sciences, Budapest - Hungary*

<sup>3</sup>*Csernozjom Ltd., Nagykovács - Hungary*

## **ASSESSMENT OF SOIL PROPERTIES UNDER DIFFERENT TILLAGE OPERATIONS**

**Technical Session**

**WATER AND WATER TREATMENT  
SESSION**

**Chairman:**

**Hosam E.A.F. BAYOUMI HAMUDA**

**14:30 – 15:55**

**Keynote:**

**Kshitij NAIKADE; Sujata ARYA**

*Symbiosis Law School, Symbiosis International University, Pune - India*

**WATER IN FUTURES MARKET: SMART CAPITALISM OR TOXIC DISDAIN  
FOR HUMAN RIGHTS?**

**Oral:**

**Csenge NAGY-MEZEI<sup>1,2</sup>, Anikó BEZSENYI<sup>2</sup>, Imre GYARMATI<sup>2</sup>, Magdolna  
MAKÓ<sup>2</sup>, Levente KARDOS<sup>1</sup>**

*<sup>1</sup>Department of Floriculture and Dendrology, Institute of Landscapes Architecture, Urban  
Planning and Garden Art, Hungarian University of Agriculture and Life Sciences, Budapest -  
Hungary*

*<sup>2</sup>Budapest Sewage Works Pte Ltd., Budapest - Hungary*

**THE ROLE, THE PERFORMANCE AND THE OPERATIONAL EXPERIENCES  
OF THE NITROGEN REMOVAL FIXED-FILM BIOLOGICAL STAGE  
OPERATING AT THE SOUTH-PEST WASTEWATER TREATMENT PLANT**

**Fouzia HIZIR<sup>1</sup>, A. KRIKA<sup>2</sup>, F. KESSASRA<sup>1</sup>**

*<sup>1</sup>Geological Engineering Laboratory, University of Mohamed Seddik Benyahia, Jijel - Algeria*

*<sup>2</sup>Laboratory of Biotechnology, Environment and Health, University of Mohamed Seddik  
Benyahia, Jijel - Algeria*

**USE OF ORGANIC POLLUTION INDICES IN THE EVALUATION OF THE  
PHYSICO-CHEMICAL QUALITY OF THE SURFACE WATERS OF WADI  
KEBIR-RHUMEL (NORTH-EAST ALGERIA)**

**Rima KIFOUICHE, F. BOUAICHA, O. BOUTERAA**

*Geology and Environment Laboratory, Constantine University 1, Route Ain El Bey Zouaghi  
Slimane Constantine - Algeria*

**ENVIRONMENTAL EFFECTS OF THERMAL WATER IN THE REGION OF  
GUELMA, ALGERIA**

**Amal FOUGHALIA<sup>1</sup>, F. KESSASRA<sup>1,2</sup>, L. ALILICHE<sup>2</sup>;S. GUERDOUH<sup>2</sup>, D. BENABBES<sup>1</sup>**

*<sup>1</sup>Laboratory of Geological Engineering, Team 3 "Geology", University of Jijel, Central Campus, Jijel - Algeria*

*<sup>2</sup>Department of Earth and Universe Sciences, University of Jijel, Central Campus, Jijel - Algeria*

## **METALLIC TRACE ELEMENT CONTAMINATION IN SURFACE WATER AND SOIL AROUND TWO ACTIVE AND OLD ABANDONED QUARRIES. CASE STUDY IN CHEKFA-JIJEL AND AKBOU, NORTH EAST OF ALGERIA: COMPARATIVE STUDY**

**P. SENTHILVALAVAN<sup>1</sup>, A. MATHESH<sup>1</sup>, K. ARIVAZHAGAN<sup>1</sup>, M.V. SRIRAMACHANDRASEKHARAN<sup>1</sup>, R. MANIVANNAN<sup>1</sup>, S. NATARAJAN<sup>2</sup>, C. RAVIKUMAR<sup>2</sup>**

*<sup>1</sup>Department of Soil Science and Agricultural Chemistry, Faculty of Agriculture, Annamalai University, Annamalainagar, Tamilnadu - India*

*<sup>2</sup>Department of Agronomy, Faculty of Agriculture, Annamalai University, Annamalainagar, Tamilnadu - India*

## **EUTROPHIC WATER QUALITY ASSESSMENT AND REMOVAL OF PHOSPHORUS USING NANO BIOCHAR**

**Fouzia HIZIR<sup>1</sup>, A. KRIKA<sup>2</sup>, F. KESSASRA<sup>1</sup>**

*<sup>1</sup>Geological Engineering Laboratory, University of Mohamed Seddik Benyahia, Jijel - Algeria*

*<sup>2</sup>Laboratory of Biotechnology, Environment and Health, University of Mohamed Seddik Benyahia, Jijel - Algeria*

## **LEVEL OF CONTAMINATION BY THE TRACE METAL ELEMENTS OF WADI KEBIR-RHUMEL (NORTH-EAST ALGERIA)**

**Boualem BOUSELSAL<sup>1</sup>, Smaine CHELLAT<sup>2</sup>**

*<sup>1</sup>Laboratory of underground reservoirs oil and gas and aquifers, Department of Earth and Universe Sciences, University of Kasdi Merbah, Ouargla - Algeria*

*<sup>2</sup>Geology and Environment Laboratory, University of Constantine 1, Constantine - Algeria*

## **HYDROGEOLOGICAL STUDY OF THE AQUIFER SYSTEM OF NORTHERN SAHARA (SASS): CASE OF THE REGION OF EL-OUED (SOUTH-EAST ALGERIA)**

**Ágnes BÁLINT<sup>1</sup>, Tibor DEMÉNY<sup>2</sup>, Xuechu WANG<sup>3</sup>, Csaba MÉSZÁROS<sup>4</sup>**

*<sup>1</sup>Institute of Environmental Engineering and Natural Sciences and Hydro-Bio-Mechanical Systems Research Center, Óbuda University, Budapest - Hungary*

*<sup>2</sup>Pro-mees Ltd. Job safety & environmental protection consultant, Vác - Hungary*

*<sup>3</sup>Doctoral School of Environmental Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő - Hungary*

*<sup>4</sup>Institute of Mathematics and Basic Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő - Hungary*

## **HEAVY METAL CONCENTRATIONS IN SOIL, SLUDGE, WATER AND PLANT SYSTEMS ALONG THE LEFT BANK OF THE DANUBE BETWEEN RIVER KILOMETRES 1653 AND 1655**

**Poster:**

**Olena MITRYASOVA<sup>1</sup>, Ruslan MARIYCHUK<sup>2</sup>, Alla SHYBANOVA<sup>3</sup>, Elvira DZHUMELIA<sup>3</sup>**

*<sup>1</sup>Ecology Department, Petro Mohyla Black Sea National University, Mykolaiv - Ukraine*

*<sup>2</sup>Faculty of Humanities and Natural Sciences University of Presov, Prešov - Slovakia*

*<sup>3</sup>Department of Ecological Safety and Nature Protection Activity, Lviv Polytechnic National University, Lviv - Ukraine*

## **PROGNOSIS MODELS OF NITRATES AND ORTHOPHOSPHATES CONTENT IN SURFACE WATERS**

**Attila FÜRÉSZ<sup>1</sup>, Gabriella FINTHA<sup>2</sup>, Szilárd SZENTES<sup>3</sup>, Zsombor Wagenhoffer<sup>4</sup>, Márta BAJNOK<sup>3</sup>, Ferenc SZALAI<sup>5</sup>, Károly PENKSZA<sup>1</sup>**

*<sup>1</sup>Hungarian University of Agriculture and Life Science, Institute of Agronomy, Gödöllő - Hungary*

*<sup>2</sup>Hungarian University of Agriculture and Life Science, Doctoral School of Biological Sciences, Gödöllő - Hungary*

*<sup>3</sup>Hungarian University of Agriculture and Life Science, Institute of Animal Science, Gödöllő - Hungary*

*<sup>4</sup>Animal Breeding, Nutrition and Laboratory Animal Science Department, University of Veterinary Medicine Budapest, Budapest - Hungary*

*<sup>5</sup>The Water Buffalo Reserve of Mátra, Szurdokpüspöki, Hungary*

## **COENOLOGICAL COMPARISON AND GRASSLAND MANAGEMENT ANALYSIS OF DOMESTIC WATER BUFFALO PASTURES AT SZURDOKPÜSPÖKI**



**Roquia RIZK<sup>1,2</sup>, Tatjana JUZSAKOVA<sup>1</sup>, Hesham M. SHAFIK<sup>3</sup>, Ákos RÉDEY<sup>1</sup>**

*<sup>1</sup>Research Centre for Biochemical, Environmental and Chemical Engineering, Sustainability Solutions Research Lab, University of Pannonia, Veszprém - Hungary*

*<sup>2</sup>Biochemistry Department, Faculty of Agriculture, Cairo University, Cairo - Egypt*

*<sup>3</sup>Botany Department, Faculty of science, Port Said University, Port Said - Egypt*

## **MONITORING OF THE HEAVY METAL CONTENT OF FISH SAMPLES OF LAKE BALATON, HUNGARY**

**Technical Session**

**ENVIRONMENTAL INVESTIGATIONS  
AND MONITORING SESSION**

**SESSION (A)**

**Chairman:**

**Ruslan MARIYCHUK**

**10:30 – 11:35**

**Keynote**

**Mythili MADHUSUDHAN**

*School of Architecture, Meenakshi College of Engineering, Chennai, Tamil Nadu - India*

**ECOSYSTEMS AND LANDSCAPE FOR THE FUTURE GENERATIONS**

**Lydia SOBOTOVA, Tibor DZURO, Miroslav BADIDA**

*Department of Environmental Engineering, Institute of Industrial Engineering, Management and Environmental Engineering, Faculty of Mechanical Engineering, Technical University of Košice, Košice - Slovakia*

**WATER JET AND ITS ENVIRONMENTAL PROBLEMS**

**Oral:**

**Haimei CHEN<sup>1,2</sup>, Levente KARDOS<sup>2</sup>, Magdolna Sütöriné DIÓSZEGI<sup>1</sup>,  
Veronika SZABÓ<sup>1</sup>**

*<sup>1</sup>Department of Floriculture and Dendrology, Institute of Landscapes Architecture, Urban Planning and Garden Art, Hungarian University of Agriculture and Life Sciences, Budapest - Hungary*

*<sup>2</sup>Institute of Environmental Science, Department of Agro-environment Studies, Hungarian University of Agriculture and Life Sciences, Budapest - Hungary*

**URBAN WOODY PLANT'S BENEFITS IN HEAVY METAL POLLUTION  
MONITORING AND REDUCTION**

**Rudolf SZABÓ<sup>1</sup>, Lóránt SZABÓ<sup>2</sup>**

*<sup>1</sup>Rejtő Sándor Foundation, Budapest - Hungary*

*<sup>2</sup>Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

**COMPOSITES MATERIALS, PROCESSES, PROPERTIES AND  
APPLICATIONS**

**Haya ALTALEB<sup>1</sup>, Soufyane Ahmad HAFED<sup>2</sup>, Zoltán RAJNAI<sup>1</sup>**

<sup>1</sup>Doctoral School on Safety and Security Sciences, Óbuda University, Budapest - Hungary,  
<sup>2</sup>DONÁT BÁNKI Faculty of Mechanical and Safety Engineering, Óbuda University, Budapest - Hungary, <sup>3</sup>Doctoral School on Safety and Security Sciences, Óbuda University, Budapest - Hungary

## **COMPARISON BETWEEN VARIOUS MPPT TECHNIQUES (FUZZY LOGIC, P&O, HYBRID SYSTEM (FUZZY LOGIC, P&O))**

**Lara Rúbia BORGES SILVA, Levente KARDOS**

*Department of Floriculture and Dendrology, Institute of Landscapes Architecture, Urban Planning and Garden Art, Hungarian University of Agriculture and Life Sciences, Budapest - Hungary*

## **RECYCLING OF ORGANIC WASTE: AN OVERVIEW OF PÁLINKA DISTILLERY MASH COMPOSTING**

**Saad K. EL EBAIDI, Ahmed M. MUFTAH, Mohammed H. AL RIAYDH**

*Department of Earth Sciences, Faculty of Science, University of Benghazi, Benghazi - Libya*

## **EVALUATIONS OF THE EOCENE APOLLONIA FORMATION IN KARSAH REGION, CYRENAICA, LIBYA, FOR CEMENT MANUFACTURE**

**Poster:**

**Károly PENKSZA, Norbert PÉTER, Attila Fűrész, Eszter Saláta-FALUSI, Zoltán BAJOR**

*Hungarian University of Agriculture and Life Science, Institute of Agronomy, Gödöllő - Hungary*

## **CONSERVATION MANAGEMENT AND RESTAURATION OPEN SANDY GRASSLAND THE HOMOKTÖVIS CONSERVATION AREA IN BUDAPEST**

**Technical Session**

**ENVIRONMENTAL INVESTIGATIONS  
AND MONITORING SESSION**

**SESSION (B)**

**Chairman:**

**Lydia SOBOTOVA**

**11:45 – 13:20**

**Keynote:**

**Csaba LENTNER<sup>1</sup>, Sándor J. ZSARNÓCZA<sup>1,2</sup>**

*<sup>1</sup>University of Public Service, Faculty of Governmental and International Studies, Kálmán Széll Public Finance Pub, Budapest - Hungary*

*<sup>2</sup>University of Public Service, Faculty of Governmental and International Studies, Kálmán Széll Public Finance Pub, Budapest - Hungary, Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

**FINANCIAL AND ECONOMIC POSITIONS OF PORTUGAL AT THE TURN  
OF 2020S**

**Csaba MÉSZÁROS<sup>1</sup>, István Róbert NIKOLÉNYI<sup>1</sup>, Ágnes BÁLINT<sup>2</sup>**

*<sup>1</sup>Institute of Mathematics and Basic Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő - Hungary*

*<sup>2</sup>Institute of Environmental Engineering and Natural Sciences and Hydro-Bio-Mechanical Systems Research Center, Óbuda University, Budapest - Hungary*

**NEW SYMMETRY METHODS FOR QUANTUM-MECHANICAL MODELLING  
OF PROMISING PHOTOVOLTAIC MATERIALS OF INFINITE CHAIN-TYPE  
AND LAYER-TYPE ATOMIC SYSTEMSTITLE**

**Oral:**

**Deepa JOSHI<sup>1</sup>, Thipendra P. SINGH<sup>2</sup>**

*<sup>1,2</sup>School of Computer Science, University of Petroleum and Energy Studies, Energy Acres, Bidholi, Dehradun- Uttarakhand - India*

**NOVEL USE OF A DEEP CONVOLUTION ARCHITECTURE PRE-TRAINED  
ON SURFACE CRACK DATASET TO LOCALIZE AND SEGMENT WRIST  
BONE FRACTURES**

**Mohamed Sabri BENSAAAD<sup>1,2</sup>, Saliha DASSAMIOUR<sup>2</sup>, Leila HAMBABA<sup>2</sup>,  
Mohamed Amine KAHOUL<sup>3</sup>**

<sup>1</sup>Laboratory of Cellular and Molecular Physio-Toxicology-Pathology and Biomolecules,  
Department of Biology of Organisms, Faculty of Natural and Life Sciences, University Batna  
2, Fesdis, Batna - Algeria

<sup>2</sup>Laboratory of Biotechnology of Bioactive Molecules and Cellular Physiopathology,  
Department of Microbiology and Biochemistry, Faculty of Natural and Life Sciences,  
University Batna 2, Fesdis, Batna - Algeria

<sup>3</sup>Laboratory of Food Sciences, Institute of Agriculture and Veterinary Sciences, University  
Batna 1, Batna - Algeria

## **EVALUATION OF THE ANALGESIC CAPACITY OF THE N-BUTANOLIC EXTRACT OF *Centaurea tougourensis* BOISS & REUT**

**Saliha DASSAMIOUR<sup>1</sup>, Mohamed Sabri BENSAAAD<sup>1,2</sup>**

<sup>1</sup>Laboratory of Biotechnology of Bioactive Molecules and Cellular Physiopathology,  
Department of Microbiology and Biochemistry, Faculty of Natural and Life Sciences,  
University Batna 2, Fesdis, Batna - Algeria

<sup>2</sup>Laboratory of Cellular and Molecular Physio-Toxicology-Pathology and Biomolecules,  
Department of Biology of Organisms, Faculty of Natural and Life Sciences, University Batna  
2, Fesdis, Batna - Algeria

## **TEST OF BIOLOGICAL ACTIVITIES OF SYRUPS ELABORATED FROM WASTE DATES**

**Zoubir BELHIMER, Azzedine BOUZENOUNE, Abdelhakim BOUCHAIR**

Geological Engineering Laboratory, University of Mohamed Seddik Benyahia, Jijel - Algeria

## **IRON MINERALIZATIONS OF BABORS REGION (NORTHEASTERN ALGERIA)**

**Osamah J. AL-SAREJI<sup>1,2</sup>, Mónika MEICZINGER<sup>2</sup>, Raed A. AL-JUBOORI<sup>3,4</sup>,  
Viola SOMOGYI<sup>2</sup>, Miklós JAKAB<sup>5</sup>**

<sup>1</sup>Environmental Research and Studies Center, University of Babylon, Al-Hillah - Iraq

<sup>2</sup>Sustainability Solutions Research Lab, Faculty of Engineering, University of Pannonia,  
Veszprém - Hungary

<sup>3</sup>NYUAD Water Research Center, New York University-Abu Dhabi Campus, Abu Dhabi, Abu  
Dhabi - United Arab Emirates

<sup>4</sup>Water and Environmental Engineering Research Group, Department of Built Environment,  
Aalto University, Aalto, Espoo - Finland

<sup>5</sup>Research Centre of Engineering Sciences, Department of Materials Sciences and  
Engineering, University of Pannonia, Veszprém - Hungary

## **ENZYME IMMOBILIZATION ON DATE STONES FOR REMOVING POLLUTANTS**

**Poster:**

**Károly PENKSZA<sup>1</sup>, Zsuzsanna SUTYINSZKI<sup>1</sup>, Attila FŰRÉSZ<sup>1</sup>, Dénes SALÁTA<sup>2</sup>, Szilárd SZENTES<sup>3</sup>**

*<sup>1</sup>Hungarian University of Agriculture and Life Science, Institute of Agronomy, Gödöllő - Hungary*

*<sup>2</sup>Hungarian University of Agriculture and Life Science, Institute for Wildlife Management and Nature Conservation, Gödöllő - Hungary*

*<sup>3</sup>Hungarian University of Agriculture and Life Science, Institute of Animal Scienc, Gödöllő - Hungary*

**VERGES AS FRAGMENTS OF THE WESTERNMOST OCCURRENCES OF FOREST GRASSLAND IN THE CARPATHIAN BASIN AND THEIR FESTUCA SPECIES**

**Technical Session**

**ENVIRONMENTAL INVESTIGATIONS  
AND MONITORING SESSION**

**SESSION (C)**

**Chairman:**

**Csaba MÉSZÁROS**

**13:30 – 15:05**

**Keynote:**

**Ruslan MARIYCHUK**

*Department of Ecology, Faculty of Humanities and Natural Sciences, University of Presov,  
Presov - Slovakia*

**RECENT ADVANCES IN THE GREEN SYNTHESIS OF BIOCOMPATIBLE  
NANOPARTICLES**

**Hosam E.A.F. BAYOUMI HAMUDA**

*Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light  
Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

**PROTECTION THE PLANET: GLOBAL ECOSYSTEM PROBLEMS AND  
CLIMATIC CHANGES**

**Oral:**

**Ákos MALATINSZKY, Csilla FICSOR**

*Hungarian University of Agriculture and Life Sciences, Gödöllő - Hungary*

**HORSE-POWERED LOGGING FOR THE PROTECTION OF HUNGARIAN  
FORESTS**

**Virág NÉMETHY**

*Institute of Product Design, Rejtő Sándor Faculty of Light Industry and Environmental  
Engineering, Óbuda University, Budapest - Hungary*

**7<sup>TH</sup> INTERNATIONAL CEEPUS WINTER SCHOOL DESIGN WEEK 2022**

**Oumeima BENMEBAREK, Azzedine BOUZENOUNE**

*Geological Engineering Laboratory, University of Mohammed Seddik Benyahia, Jijel - Algeria*

**POLYMETALLIC MINERALIZATION (FE, CU, PB, ZN, BA) OF THE TELLIAN DOMAIN (JIJEL PROVINCE, NE ALGERIA): MICROSCOPIC AND MINERALOGICAL CHARACTERIZATION**

**Mark Gabriel Wagan AGUILAR<sup>1</sup>, Jayson Nual OLAYTA<sup>2</sup>**

*<sup>1</sup>Emilio Aguinaldo College, Cavite - Philippines,*

*<sup>2</sup>Laguna State Polytechnic University, Laguna - Philippines*

**ENVIRONMENTAL ATTITUDE VERSUS BEHAVIOUR OF TOURISM MANAGEMENT STUDENTS IN SELECTED COLLEGES AND UNIVERSITIES IN REGION IV-A, PHILIPPINES: A BASIS FOR EDUCATIONAL PLANNING AND DEVELOPMENT**

**Ákos BORBÉLY**

*Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

**COLORIMETRIC INVESTIGATION OF FALL FOLIAGE**

**Poster:**

**Tareq IRHAYYIMA, Mohamed Ali RAWASH**

*Department of Animal Science, Georgikon Faculty, Hungarian University of Agricultural and Life Science, Keszthely - Hungary*

**CLIMATE CHANGE AND AGRICULTURE SECTOR IN EGYPT: EFFECTS AND ADAPTATION**



**Technical Session**

**ENVIRONMENTAL INVESTIGATIONS  
AND MONITORING SESSION**

**SESSION (D)**

**Chairman:**

**Hosam E.A.F. BAYOUMI HAMUDA**

**15:05 – 16:30**

**Keynote:**

**Tatjana JUZSAKOVA, Ali Dawood SALMAN, Béla VARGA, Gvendolin KULCSÁR, János LAUER, Tamás PAP**

*Research Centre for Biochemical, Environmental and Chemical Engineering, University of Pannonia, Veszprém - Hungary*

**Rare Earth Metals separation from bauxite waste by ion exchange and solvent extraction techniques**

**Oral:**

**Ali Dawood SALMAN<sup>1,2</sup>, Tatjana JUZSAKOVA<sup>1</sup>, Moayyed G. JALHOOM<sup>2</sup>, Sebestyen VIKTOR<sup>1</sup>, Endre DOMOKOS<sup>1</sup>**

<sup>1</sup>*Sustainability Solutions Research Lab, University of Pannonia, Veszprém - Hungary*

<sup>2</sup>*Department of Chemical and Petroleum Refining Engineering /College of Oil and Gas Engineering, Basra University*

<sup>3</sup>*Department of Production Engineering and Minerals, University of Technology Baghdad - Iraq*

**SYNTHESIS AND SURFACE MODIFICATION OF MAGNETIC Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>-EDTA NANOPARTICLES AND ITS APPLICATION IN UPTAKE OF NICKEL(II) IONS FROM AQUEOUS MEDIA**

**Natalia PITTA-OSSES, Csaba CENTERI, Krisztián KATONA**

*Institute for Wildlife Management and Nature Conservation, Department of Wildlife Biology and Management, Gödöllő - Hungary*

**POPULATION CONTROL OF HIGH IMPACT MAMMALS: COMPARISON OF METHODS FOR WILD HIPPOS IN COLOMBIA AND WILD BOAR IN EUROPE**

**Xuechu WANG**

*Environmental Sciences Doctoral School, Hungarian University of Agriculture and Life Sciences, Gödöllő - Hungary*

## **THE CORPORATE ASPECTS OF CLIMATE CHANGE ACTION**

**Zakaria MENNANE, Jamal ABRINI, Noureddine ELMTILI**

*<sup>1</sup>Food and Health Team; Laboratory of Biology and Health, Faculty of Sciences, Abdelmalek Essaidi University, Tetouan - Morocco*

## **PHYSICO-CHEMICAL AND MICROBIOLOGICAL CHARACTERISTICS OF TRADITIONAL AND INDUSTRIAL FIGS TAKEN FROM THE MARKETS OF TETOUAN IN MOROCCO**

**Abdelhakim BOUCHAIR, Azzedine BOUZENOUNE, Yasser MAHAMADIOUA, Yasser KEMEL, Zoubir BELHIMER**

*Geological Engineering Laboratory, University of Mohamed Seddik BenYahia, Jijel - Algeria*

## **DISTRIBUTION AND PETROGRAPHY OF EOCENE OOIDAL IRONSTONES FROM KEF IN NSOUR DEPOSIT (TEBESSA, NORTH-EASTERN ALGERIA)**

**Malak SHATNAWI<sup>1</sup>, Haya ALTALEB<sup>2</sup>, Zoltán RAJNAI<sup>3</sup>**

*<sup>1</sup>Doctoral School on Safety and Security Sciences, Óbuda University, Budapest - Hungary*

*<sup>2</sup>Doctoral School on Safety and Security Sciences, Óbuda University, Budapest - Hungary*

*<sup>3</sup>Doctoral School on Safety and Security Sciences, Óbuda University, Budapest - Hungary*

## **NATURAL DISASTERS IMPACTS; RISK ASSESSMENT AND SUSTAINABILITY SOLUTION**

**Technical Session**

**AIR QUALITY, ENERGY AND  
RENEWABLE ENERGY SESSION**

**Chairman:**

**Csaba ÁGOSTON**

**13:30 – 15:00**

**Keynote:**

**Edmond HOXHA**

*Faculty of Geology and Mining, Polytechnic University of Tirana - Albania*

**“GREEN ENERGY” AS CHALLENGE AND OPPORTUNITY IN ALBANIA**

**Oral:**

**Bushra ATFEH, Róbert MÉSZÁROS**

*Department of Meteorology, Institute of Geography and Earth Sciences, Eötvös Loránd University, Budapest - Hungary*

**APPLICATION OF LOW-COST SENSORS FOR INDOOR AIR QUALITY  
MONITORING IN BUDAPEST, HUNGARY**

**Sara ALKHALDI<sup>1</sup>, Katalin A. FŐGLEIN<sup>2</sup>, Krisztina DEMÉNY<sup>1</sup>**

*<sup>1</sup>Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

*<sup>2</sup>KTI Institute for Transport Sciences, Non-Profit LTD. Research Centre For Sustainable Transport, Department for Air Quality and Propulsion Systems, Budapest – Hungary*

**A MORE SUSTAINABLE TRANSPORT: REVIEW OF ELECTRIC CARS**

**Lily TANUI<sup>1</sup>, Emőke IMRE<sup>2</sup>**

*<sup>1</sup>Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

*<sup>2</sup>Óbuda University, Bánki Donát Faculty, and EKIK Hydro-Bio-Mechanical Systems Research Center, Budapest - Hungary*

**SOLAR AND WIND POWER INSTALLATION ON PUZSTAZAMOR  
LANDFILL SITE**

**Csaba ÁGOSTON**

*Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest - Hungary*

**LOCAL ENRICHMENT OF AIR POLLUTANTS IN A PRACTICAL EXAMPLE**

**Poster:**

**Doris STOJILKOVIC, Hosam E.A.F. BAYOUMI HAMUDA**

*Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest – Hungary*

**AIR QUALITY AND DISTRIBUTION OF LICHENS AS BIOMONITORS IN SOME SERBIAN AND HUNGARIAN TERRITORIES**

**Emőke IMRE<sup>1</sup>, Paulo COMBACAU, Khalil BEN KHALED**

*<sup>1</sup>Bánki Donát Faculty, Óbuda University, and EKIK Hydro-Bio-Mechanical Systems Research Center, Budapest - Hungary*

**WIND ENERGY MEASUREMENT IN A LANDFILL SITE**

**Emőke IMRE, Parvesh TANEJA**

*Bánki Donát Faculty, Óbuda University, and EKIK Hydro-Bio-Mechanical Systems Research Center, Budapest - Hungary*

**DEVELOPMENT OF A DATA ACQUISITION SYSTEM, DAS, FOR MEASURING SOLAR IRRADIANCE USING PYRANOMETER IN THE PUSZTAZAMOR LANDFILL SITE**

**Day 2 – November 18, 2022 (Friday)**

**09 – 10:30**

**Continuing the remaining part of the Conference**

## ***Closing Ceremony***

**\*\*\*\*Good Luck\*\*\*\***