



VIII. International Symposium-2024

# **VIII<sup>th</sup> Symposium-2024** **International Annual Symposium**

on

## **“Environmental Health and Biosecurity: Sciences, Engineering and Application”**

online

**May 09 - 10, 2024**

Budapest – Hungary

with

**Workshop Special Session:**

**Environmental Health and Climatic Change**

(How humanity can solve climate change, alleviate poverty,  
and save biodiversity)



VIII. International Symposium-2024

**Online**  
**Scientific Program of the**  
**VIII<sup>th</sup> International**  
**Symposium-2024**  
**on**

**Environmental Health and Biosecurity:**  
**Sciences, Engineering and Application**

**May 9<sup>th</sup> – 10<sup>th</sup>, 2024**

**Obuda University**  
**Budapest - Hungary**



VIII. International Symposium-2024

## Attention:

- ✚ The VIII.<sup>th</sup> Symposium-2024 will be held through **Microsoft Teams**.
- ✚ To join the Symposium:
  - There is a short guide with useful information about how to use the Microsoft Teams during the Symposium:  
<https://symposium.rkk.uni-obuda.hu/teams-how-to-guide/>
  - The participants will have the link of the Symposium.
  - The time of the Symposium is related to the **Hungarian time**.
- ✚ Please check the time with your time at home

### Time of Presentations Online (Microsoft Teams)

#### Presentation Type:

- Plenary speaker
- Keynote speaker
- Featured speaker
- Poster

#### Total Allotted Time:

- 25 min
- 20 min
- 10 min
- 5 min

Please note that:

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

### For Full paper:

The deadline to send the full paper is the end of June (**30<sup>th</sup> of June 2024**) in word document form.



VIII. International Symposium-2024

## **Acknowledgement**

*We, the editor, would like to thank the members of the organizing, scientific, and administrative committees and all the supporting staff for giving this opportunity. We would also like to extend our sincere thanks to all the contributors and reviewers who have made this Program Book possible. We hope that the papers in this Proceedings Book will inspire further research and innovation in this important field.*

*Sincerely,*

### ***Editor***

*Prof. Dr. Hosam Bayoumi Hamuda*

*President of ICEEE*

*Chairman of the Symposium*

*Obuda University*

*Budapest - Hungary*

*E-mail: bayoumi.hosam@uni-obuda.hu*

*WhatsApp/viber/messenger: +36303900813*



VIII. International Symposium-2024

## **Organizers:**

- *International Council of Environmental Engineering Education (ICEEE), Hungary*
- *Obuda University (OU), Hungary*
- *International Society of Waste Management, Air and Water (ISWMAW), India*
- *Green India Clean Environment Society (GICES), India*
- *Azerbaijan Technological University, Azerbaijan*
- *University of Coimbra, Coimbra, Portugal,*
- *Uzhhorod National University, Uzhhorod, Ukraine*
- *Rejto Sandor Faculty of Light Industry and Environmental Engineering (RKK), Hungary*
- *Hungarian Soil Science Society, Soil Biology Department (MTT, TB), Hungary*
- *Sunwo Plc, Energy Expert, Hungary*
- *Institute of Environmental Engineering and Natural Sciences (KTI), Hungary*



VIII. International Symposium-2024

**The Symposium is carrying out under the patronage of:**

*–Prof. Dr. Levente KOVÁCS*

Rector, Obuda University

*–Dr. László KOLTAI*

Dean, Rejto Sandor Faculty of Light Industry &  
Environmental Engineering

*–Dr. Rita BODÁNE-KENDROVICS*

Deputy Dean, Director, Institute of Environmental  
Engineering & Natural Sciences

*–Dr. Edit CSANÁK*

Deputy Dean, Director of the Product Design Institute

*–Prof. Dr. Hosam BAYOUMI HAMUDA*

President, International Council of Environmental  
Engineering Education  
Chairman of the Symposium



**9<sup>th</sup> of May 2024 (Thursday)**

**09:00 a.m. – 09:30 a.m.      *Opening Ceremony***

*Teams Join Link:*

<https://teams.microsoft.com/l/meetup-join/19%3aA0WuuY4-BvVAOa6MsUbb0NDtsAos4wmnUj3C7hrnYo1%40thread.tacv2/1715187547129?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

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

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

***Dr. Rita BODÁNE-KENDROVICS***

*Director, Institute of Environmental Engineering & Natural  
Sciences*

***Dr. Edit CSANÁK***

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



**09:30 – 11:00**

## **Plenary Session A**

**Teams Join Link:**

<https://teams.microsoft.com/l/meetup-join/19%3aA0WuuY4-ByVAOa6MsUbb0NDtsAos4wmnUj3C7hrnYo1%40thread.tacv2/1715187547129?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad04e-f193-4400-b776-a32473cf7510%22%7d>

**Chair of the Session:** **Hosam BAYOUMI HAMUDA**

**PL1 09:30 – 10:00**

**Ratnesh DAS**

*Department of Chemistry, Dr Harisingh Gour Central University, Sagar,  
470003 India. Email: ratneshdas1@gmail.com*

**CARBON NANOTUBES AND NANOPARTICLES AS AN EFFICIENT  
ELECTROCHEMICAL SENSOR FOR THE ANALYSIS OF CALCIUM  
CHANNEL BLOCKERS**

**PL2 10:00 – 10:30**

**Lyudmyla SYMOCHKO<sup>1,2,3,4</sup>**

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

*<sup>2</sup>University of Coimbra, Calçada Martim de Freitas, Coimbra, Portugal*

*<sup>3</sup>Institute of Agroecology and Environmental Management NAAS,  
Metrolohichna, Kyiv, Ukraine*

*<sup>4</sup>CERNAS - Research Centre for Natural Resources, Environment and Society,  
Escola Superior Agrária de Coimbra, Coimbra, Portugal;  
lyudmilassem@gmail.com*

**ANTIBIOTIC POLLUTION IN THE ENVIRONMENT: FROM  
MICROBIAL ECOLOGY TO PUBLIC HEALTH**

**PL3 10:30 – 11:00**

**Giuseppe CIABURRO**

*Department of Architecture and Industrial Design Università degli Studi della  
Campania Luigi Vanvitelli, AVERSA, ITALY,  
giuseppe.ciaburro@unicampania.it*

**ADVANCED SOUND EVENT DETECTION FOR SMART HOME  
SECURITY SYSTEMS**





## ***SYMPOSIUM'S SESSIONS***

- Session (A)
  - Healthcare: Risk & Management
  
- Session (B)
  - Soil Biology & Agricultural and Food Security, Ecosystems & Landscape Conservation
  
- Session (C)
  - Air, Water & Sediments Pollution and Waste Management
  
- Session (D)
  - Artificial intelligence, Bioinformatics, Circular Economy Strategy
  
- Session (E)
  - Energy Research & Applications



11:00 – 12:20

## Technical Session A

### Healthcare: Risk & Management

Teams Join Link:

<https://teams.microsoft.com/l/meetup-join/19%3aA0WuuY4-ByVAOa6MsUbb0NDtsAos4wmnUj3C7hrnYo1%40thread.tacv2/1715187547129?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad04e-f193-4400-b776-a32473cf7510%22%7d>

Chair of the Session:

Ayan CHATTERJEE

11:00 – 11:20

**Keynote Speaker:**

**Rahul HAJARE**

*School of Pharmaceutical Sciences, Sandip University India*

**QUALITATIVE AND QUANTITATIVE ANALYSIS OF PERSIMMON, AN AMERICAN TOMATO**

11:20 – 11:30

**Asmaa RHAZOUANI<sup>1,2,3</sup>, Halima GAMRANI<sup>3</sup>, Lhoucine GEBRATI<sup>d4</sup>, Faissal AZIZ<sup>1,2</sup>**

*<sup>1</sup>Laboratory of Water, Biodiversity & Climate Change, Cadi Ayyad University, Marrakech, Morocco; <sup>2</sup>National Centre for Studies and Research on Water and Energy, Cadi Ayyad University, Marrakech, Morocco; <sup>3</sup>Laboratory of Clinical, Experimental and Environmental Neurosciences, Cadi Ayyad University, Marrakech, Morocco; <sup>4</sup>Laboratory of Materials, Processes, Environment and Quality, Cadi Ayyad University, Safi, Morocco.*

**HEPATIC EFFECTS OF GRAPHENE OXIDE (GO): A MACROSCOPIC AND HISTO-BIOCHEMICAL ANALYSIS**

11:30 – 11:40

**Henok ABEBE<sup>1</sup>, Henok MULATU<sup>2\*</sup>, Samuel KELEMEWORK<sup>3</sup>**

*<sup>1</sup>Hirna Regional Veterinary Laboratory, Oromiya Regional State, Hirna, Ethiopia; <sup>2</sup>Habro District Livestock and Fisheries Development Office, Gelemso, Ethiopia; <sup>3</sup>Guba Koricha District Livestock and Fisheries Development Office, Komona, Ethiopia.*

**REVIEW ON EPIDEMIOLOGICAL INTERFACE OF FOOT AND MOUTH DISEASES BETWEEN WILD ANIMALS, DOMESTIC ANIMALS AND HUMAN**



**11:40 – 11:50**

**Kenza IRINISLIMANE**

*Mechanical Engineering Department, M'Hamed Bougara University,  
Boumerdes, Algeria, k.irinislidane@univ-boumerdes.dz*

**ANALYSIS OF THE MANAGEMENT SYSTEM ACCIDENT RISKS**

**11:50 – 12:00**

**Rahat SIRAJ**

*Hazara University sub-Campus Battagram, Battagram, Pakistan*

**THREATS TO WILDLIFE**

**12:00 – 12:10**

**Rahul Kumar**

*Chaudhary Charan Singh Haryana Agricultural University, College of  
Agriculture, Bawal-123501, Rewari, Haryana, INDIA*

**ISOLATION OF PATHOGENIC BACTERIA FROM DISEASED  
HETEROPNEUSTES FOSSILIS**

**12:10 – 12:20**

**Asmaa HAJ-KHLIFA, Faissal AZIZ, Maroua Ait TASTIFT, Souad SELLAMI,  
Hanane RAIS, Miloud HAMMOUD, Naima FDIL, Najib KISSANI, Halima  
GAMRANI, Moulay Mustapha BOUYATAS**

*Cadi Ayyad University, Faculty of sciences Semlalia, Marrakech, Morocco*

**AMELIORATIVE EFFECT OF ONONIS NATRIX AGAINST CHRONIC  
LEAD POISONING IN MICE: BIOCHEMICAL AND HISTOLOGICAL  
STUDY**

**Lunch time.**



**11:00 – 12:20**

**Technical Session B**

***Soil Biology & Agricultural and Food Security,  
Ecosystems & Landscape Conservation***

**11:00 – 12:30**

**Sub-Session B1**

*Teams Join Link:*

<https://teams.microsoft.com/l/meetup-join/19%3azgkIejdjFg2SoSpQdHkR26HebDBfTlwjmi40FGSUQF41%40thread.tacv2/1715188483502?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

*Chair of the Session:*

*Lyudmyla SYMOCHKO*

**11:00 – 11:10**

**Iram MAJEED**

*The Government Sadiq College Women University, Bahawalpur, Pakistan,*

**ECOSYSTEMS & LANDSCAPE CONSERVATION**

**11:10 – 11:20**

**Sana AHMED<sup>1</sup>, Sufia ZAMAN<sup>1</sup>, Abhijit MITRA<sup>2</sup>**

*<sup>1</sup>Department of Oceanography, Techno India University, West Bengal, Salt Lake, Sector V, Kolkata, India; <sup>2</sup>Department of Marine Science, University of Calcutta, Kolkata, India.*

**EVALUATION OF STORED CARBON IN URBAN TREES OF KOLKATA CITY USING EMERGING TECHNOLOGIES**

**11:20 – 11:310**

**Lateefat Adeola BELLO**

*Ahmadu Bello University, Zaria, Kaduna State, Nigeria,*

**NAVIGATING THE LEGAL LABYRINTH: BALANCING TOURISM, ENVIRONMENTAL HEALTH, AND BIOSECURITY**



**11:30 – 11:40**

**Igor DUKAY**

*Hungarian University of Agriculture and Life Sciences, Institute for Wildlife Management and Nature Conservation, Hungary.*

**LANDSCAPE SCALE STUDY OF HYDROMORPHOLOGICAL CHANGES OF BÜKKÖS STREAM (SZENTENDRE) AND THEIR EFFECTS ON NATURAL STATE**

**11:40 – 11:50**

**Achraf Berradi<sup>1,2</sup>, Ahlam Lafdali<sup>1,2,3</sup>, Laila Mandi<sup>1,2</sup>, Faissal AZIZ<sup>1,2</sup>, Naaila OUAZZANI<sup>1,2</sup>, Abdelhaq EL ARRAM<sup>1,2</sup>**

*<sup>1</sup>Laboratory of Water, Biodiversity, and Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco; <sup>2</sup>National Center for Research and Studies on Water and Energy, Cadi Ayyad University, Marrakech, Morocco; <sup>3</sup>Laboratory of Innovative Materials, Energy and Sustainable Development (IMED-Lab), Faculty of Science and Technology, Cadi Ayyad University, Marrakech, Morocco.*

**BIOBASED HYDROGELS AS A RESILIENT SOLUTION FOR WATER-EFFICIENT AGRICULTURE**

**11:50 – 12:00**

**Rashwan ALKENTAR, Tamás MANKOVITS**

*University of Debrecen, Faculty of Engineering, Debrecen, Hungary.*

**HIP IMPLANT OPTIMIZATION USING LATTICE STRUCTURES**

**12:00 – 12:10**

**Karim ENNOURI<sup>1</sup>, Monia ENNOURI<sup>2</sup>, Mohamed Ali TRIKI<sup>2</sup>**

*<sup>1</sup>Digital Research Center of Sfax, Sfax, Tunisia; <sup>2</sup>Olive tree institute, Sfax, Tunisia.*

**EXAMINING SOIL CHARACTERISTICS USING SATELLITE-BASED IMAGING TECHNIQUES**



**12:10 – 12:20**

**Zerihun TESHOME<sup>1</sup>, Tamrat TESFAYE<sup>1,2</sup>, Tsion BELAY<sup>1</sup>**

*<sup>1</sup>Leather Processing and Products Research and Innovation Centre, Ethiopian Institute of Textile and Fashion Technology, Bahir Dar, Ethiopia; <sup>2</sup>Biorefinery Research Centre, Ethiopian Institute of Textile and Fashion Technology, Bahir Dar, Ethiopia.*

**UTILIZATION OF THE POULTRY INDUSTRY BY-PRODUCTS PAW WASTE FOR THE PRODUCTION OF AN ALTERNATE MATERIAL OF EXOTIC LIKE LEATHER: WASTE TO THE HEALTH**

**12:20 – 12:30**

**Belkasim KHAMEISS**

*Kansas Geological Survey, 1930 Constant Ave., Lawrence, USA*

**SEDIMENT ANALYSIS OF MIOCENE DEPOSITS IN THE RED BAY FORMATION, FLORIDA: INSIGHTS INTO NEARSHORE MARINE FACIES AND LITHOLOGICAL DISCREPANCIES**

**Lunch time.**



**11:00 – 12:20**

**Sub-Session B2**

**Teams Join Link:**

[https://teams.microsoft.com/l/meetup-join/19%3a21kjhkxIBvN4dVfKAtDejoJSO2\\_kpAFmZ3qQjnnLxo1%40thread.tacv2/1715188972903?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d](https://teams.microsoft.com/l/meetup-join/19%3a21kjhkxIBvN4dVfKAtDejoJSO2_kpAFmZ3qQjnnLxo1%40thread.tacv2/1715188972903?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

**Chair of the Session:** *Salma LATIQUE*

**11:00 – 11:10**

**Olena DEMYANYUK, Dmitry SHATSMAN, Oleksander POLTAVA**

*Institute of Agroecology and Environmental Management of NAAS, Kyiv, Ukraine*

**AGROECOLOGICAL ASSESSMENT OF HERBICIDE APPLICATION FOR MONOCULTURE MAIZE**

**11:10 – 11:20**

**Hayet HFAIEDH, Emna BOUAZIZI, Yaakoub GHARBI, Mohamed Ali TRIKI**

*Laboratory of Olive Genetic Resources: characterization, valorization and phytosanitary protection, Olive Tree Institute, Tunisia.*

**CO-COMPOSTING OF SHRIMP SHELL WASTE AND OLIVE LEAVES: PHYSICO-CHEMICAL AND AGRONOMIC QUALITY ASSESSMENT**

**11:20 – 11:30**

**Eetizez KAROUI, Karim ENNOURI, Mohammed Ali TRIKI, Monia ENNOURI**

*Olive Tree Institute, Sfax, Tunisia.*

**ROLE OF MARINE ALGAE IN PLANT GROWTH AND PROTECTION FOR SUSTAINABLE AGRICULTURE**



**11:30 – 11:40**

**Ghizlane AKHOUY<sup>1,2</sup>, Lhoucine GEBRATI<sup>1</sup>, Yasin AKGÜL<sup>3</sup>, Mehmet Durmus CALISIR<sup>4</sup>, Manal ZEFZOUFI<sup>2</sup>, Salima ATLAS<sup>5</sup>, Majdouline BELAQZIZ<sup>2,6</sup>, Faissal AZIZ<sup>2,6</sup>**

*<sup>1</sup>Laboratory of Materials, Processes, Environment and Quality, Cadi Ayyad University Safi, Morocco; <sup>2</sup>National Center for Research and Studies on Water and Energy, Cadi Ayyad University, Marrakech, Morocco; <sup>3</sup>Karabuk University Iron and Steel Institute, KARABÜK, Turkey; <sup>4</sup>Istanbul Technical University, Istanbul, Turkey; <sup>5</sup>Polydisciplinary Faculty, Sultan Moulay Slimane University, Beni-Mellal, Morocco; <sup>6</sup>Laboratory of Water, Biodiversity, and Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco.*

#### **ELECTRO-BLOW SPUN HYBRID NANOFIBERS: A NEW PERSPECTIVE IN ACTIVE PACKAGING MATERIALS**

**11:40 – 11:50**

**Abdousalam AHMED ALGAIDI<sup>1</sup>, Hosam E.A.F. BAYOUMI HAMODA<sup>2</sup>, Ibrahim ISSA<sup>3</sup>, Yosof SALEH HAMID<sup>4</sup>**

*<sup>1</sup>Department of Microbiology, Faculty of Science, Sabha University, Sabha, Libya; <sup>2</sup>Óbuda University, Rejto Sandor Faculty of Light industry and Environmental Engineering, Institute of Environmental Engineering and Natural Sciences, Budapest, Hungary; <sup>3</sup>Department of Soil Science, Faculty of Agriculture, Sirte University, Sirte Libya; <sup>4</sup>Department of Soil Science, Faculty of Agriculture, Tripoli University, Tripoli, Libya.*

#### **THE EMISSION OF NITRIC OXIDE AND CARBON DIOXIDE FROM CULTIVATED SOIL**

**11:50 – 12:00**

**Izhar ULLAH, Shabir AHMAD, Sardar Azhar MAHMOOD, Said Nawaz KHAN, Asifa KHAN, Mohammad YOUSAF**

*Department of Zoology, Hazara University Mansehra, Pakistan*

#### **TAXONOMIC STUDY OF SPIDER (ARACHNIDA: ARANEAE) FAUNA IN DISTRICT BATTAGRAM KP, PAKISTAN**





**12:00 – 12:10**

**Zita ZSEMBERY<sup>1</sup>, Dorottya PUJSZ<sup>2</sup>**

*<sup>1</sup>Herman Otto Institute, Budapest, Hungary; <sup>2</sup>Hungarian University of Agriculture and Life Sciences, Institute for Wildlife Management and Nature Conservation, Gödöllő, Hungary.*

**PEDOLOGICAL BACKGROUND FOR EARTHWORM RESEARCH IN THE GÖDÖLLŐ HILLSIDE**

**12:10 – 12:20**

**Amal OMRI<sup>1</sup>, Sofiane ABDELHAMID<sup>1</sup>, Mohamed AYADI<sup>1</sup>, Cinzia BENINCASA<sup>2</sup>**

*<sup>1</sup>Olive Tree Institute, Rue de l'A'eroport, Sfax, Tunisia; <sup>2</sup>CREA Research Centre for Olive, Fruit and Citrus Crops - via Li Rocchi, Rende CS, Italy.*

**EXPLORING THE PHENOLIC COMPOSITION AND SENSORY CHARACTERISTICS OF OLIVE OILS FROM MINOR CULTIVARS IN TUNISIA**

**12:20 – 12:30**

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

*Obuda University, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Institute of Environmental Engineering and Natural Sciences, Budapest, Hungary*

**AN INNOVATIVE APPROACH OF BIOREMEDIATION IN ENZYMATIC DEGRADATION OF XENOBIOTICS**

**Lunch time.**



**13:00 – 14:10**

**Sub-Session B3**

*Teams Join Link:*

[https://teams.microsoft.com/l/meetup-join/19%3a21k1jhtkxIBvN4dVfKAtDejoJSO2\\_kpAFmZ3qOjnnLxo1%40thread.tacv2/1715188972903?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d](https://teams.microsoft.com/l/meetup-join/19%3a21k1jhtkxIBvN4dVfKAtDejoJSO2_kpAFmZ3qOjnnLxo1%40thread.tacv2/1715188972903?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

*Chair of the Session:* **Hosam E.A.F. BAYOUMI HAMUDA**

**13:00 – 13:20**

**Keynote Speaker**

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

*Obuda University, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Institute of Environmental Engineering and Natural Sciences, Budapest, Hungary*

**IMPACTS OF ZINC AND SILVAR ENGINEERED NANOPARTICLES ON PLANT GROWTH-PROMOTING BACTERIA IN AGRICULTURAL SOIL**

**13:20 – 13:30**

**Zita ZSEMBERY**

*Herman Otto Institute, Budapest, Hungary.*

**COMPARING SOIL PROPERTIES OF NATURAL AND ARABLE AREAS  
COMPARING SOIL PROPERTIES OF NATURAL AND ARABLE AREAS**

**13:30 – 13:40**

**REETU<sup>1</sup>, Rahul KUMAR<sup>2</sup>**

*<sup>1</sup>Department of Zoology, College of Basic Sciences & Humanities, Chaudhary Charan Singh Haryana Agricultural University, Hisar, Haryana, India;*

*<sup>2</sup>Zoology, Chaudhary Charan Singh Haryana Agricultural University, College of Agriculture, Bawal, Rewari, Haryana, India.*

**EFFECT MORINGA OLEIFERA LEAVES ON AEROMONAS HYDROPHILA  
INFECTED COMMON CARP EFFECT MORINGA OLEIFERA LEAVES ON  
AEROMONAS HYDROPHILA INFECTED COMMON CARP**

**14:00 – 14:10**

**Malika BARKAT, Nassim ZOUAOUI**

*Department of Biotechnology, INATAA, UFMCI, Constantine, Algeria.*

**DETERMINATION OF THE VOLATILE PROFILE OF SIX ENDEMIC  
PLANTS FROM THE BISKRA REGION (ALGERIA)**



**Technical Session C**  
***Air, Water & Sediments Pollution and Waste  
Management***

**11:00 – 12:30**

**Sub-Session C1**

*Teams Join Link:*

<https://teams.microsoft.com/l/meetup-join/19%3a6M54Oy-twJge5VDl0DhEWOMLdzAhOxvgX3UqqJc-pF11%40thread.tacv2/1715189510539?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

***Chair of the Session:***      ***Ágnes BÁLINT***

**11:00 – 11:20**

***Keynote Speaker***

**Ágnes BÁLINT<sup>1</sup>, Dávid CZEKMEISTER<sup>2</sup>, Xuechu WANG<sup>2</sup>, Csaba MÉSZÁROS<sup>2</sup>**

*<sup>1</sup>Óbuda University, Budapest, Hungary, <sup>2</sup>Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary*

**HEAVY METAL LOADS IN THE SLURRY AREA OF THE PAKS NUCLEAR POWER PLANT**

**11:20 – 11:30**

**Rahele Khosravi NESIANI<sup>1</sup>, Meysam NASERI<sup>2</sup>**

*<sup>1</sup>Sahand University of Technology, Tabriz, Iran; <sup>2</sup>Amirkabir University of Technology, Tehran, Iran.*

**ANALYSIS ON LOW TEMPERATURE SYNTHESIS OF NANO ALPHA ALUMINA POWDER WITH TWO-STEP HYDROLYSIS**



**11:30 – 11:40**

**Filipa Duque FONSECA<sup>1,2,3,4</sup>, M. Nazaré Coelho PINHEIRO<sup>1,2,3,4</sup>**

*<sup>1</sup>Polytechnic Institute of Coimbra (IPC), Coimbra Institute of Engineering (ISEC), Department of Chemical and Biological Engineering, Coimbra, Portugal; <sup>2</sup>CEFT - Transport Phenomena Research Center, Faculty of Engineering (FEUP), University of Porto, Porto, Portugal; <sup>3</sup>SISus - Laboratory of Sustainable Industrial Systems, Instituto Superior de Engenharia de Coimbra, Coimbra, Portugal; <sup>4</sup>CERNAS - Research Centre for Natural Resources, Environment and Society, Escola Superior Agrária de Coimbra, Coimbra, Portugal.*

### **DRIVING CIRCULAR ECONOMY THROUGH WASTE VALORIZATION: A CASE STUDY OF TEXTILE (BIO)DYES**

**11:40 – 11:50**

**Y.L. ROMERO<sup>1</sup>, J. BESSEMBINDER, N.C. VAN DE GIESEN, F.H.M. VAN DE VEN**

*Beuningen, The Netherlands*

### **A RELATION BETWEEN EXTREME DAILY PRECIPITATION AND EXTREME SHORT-TERM PRECIPITATION**

**11:50 – 12:00**

**Belkasim KHAMEISS<sup>1</sup>, Makenna HARRIS<sup>2</sup>**

*<sup>1</sup>Kansas Geological Survey, 1930 Constant Ave. Lawrence, USA; <sup>2</sup>Ritchie Hall / Earth, Energy & Environment Center, Lawrence, USA*

### **TAXONOMIC OBSERVATIONS AND ENVIRONMENTAL SIGNIFICANCE OF RECENT FORAMINIFERA FROM ANTHONY'S BAY, ROATAN, NORTHEAST HONDURAS**



**12:00 – 12:10**

**Imane EL-BAGGAR<sup>1</sup>, Mohammed ALAOUI MHAMDI<sup>1</sup>, Jamila BAHHOUI<sup>1</sup>,  
Salma LATIQUE<sup>1,2</sup>**

*<sup>1</sup>Laboratory of Biotechnology, Conservation and Valorization of Natural Resources, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco; <sup>2</sup>Biomedical and Translational Research Laboratory, Faculty of Medicine, Pharmacy and Dentistry of Fez, Sidi Mohamed Ben Abdellah University, Morocco.*

**BIOREMEDIATION OF WASTEWATER AND VALORIZATION OF MICROALGAE: A SUSTAINABLE SOLUTION FOR ENVIRONMENTAL AND ECONOMIC CHALLENGES**

**12:10 – 12:20**

**Osama A. EL FALLAH<sup>1</sup>, Ahmed ABUHARARA<sup>2</sup>**

*<sup>1</sup>Department of Earth Sciences, Faculty of Science, Benghazi University, Benghazi, Libya; <sup>2</sup>Department of Geology, Faculty of Science, Omar Al-Mukhtar University, Al Byada, Libya.*

**HYDROGEOCHEMICAL STUDY OF THE GROUNDWATER IN THE COASTAL AREA, NORTHEASTERN OF BENGHAZI CITY, NE LIBYA**

**12:20 – 12:30**

**Osamah J. AL-SAREJI<sup>1,2,3</sup>, Mónika MEICZINGER<sup>1</sup>, Ruqayah Ali GRMASHA<sup>2,4</sup>, Viola SOMOGYI<sup>1</sup>**

*<sup>1</sup>Sustainability Solutions Research Lab, Faculty of Engineering, University of Pannonia, Veszprém, Hungary; <sup>2</sup>Environmental Research and Studies Center, University of Babylon, Babylon, Iraq; <sup>3</sup>Research Centre of Engineering Sciences, Department of Materials Sciences and Engineering, University of Pannonia, Veszprém, Hungary; <sup>4</sup>Research Group of Limnology, Center for Natural Science, Faculty of Engineering, University of Pannonia, Veszprém, Hungary.*

**UTILIZING AGRICULTURAL WASTE FOR EFFICIENT REMOVAL OF ORGANIC MICRO-POLLUTANTS FROM WATER AND WASTEWATER**

**Lunch time.**



**13:00 – 16:10**

**Sub-Session C2**

*Teams Join Link:*

<https://teams.microsoft.com/l/meetup-join/19%3a6M54Oy-twJge5VDl0DhEWOMLdzAhOxvgX3UqqJc-pF11%40thread.tacy2/1715189510539?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

*Chair of the Session:*

**Hosam BAYOUMI HAMUDA**

**13:00 – 13:10**

**Rahele Khosravi NESIANI<sup>1</sup>, Meysam NASERI<sup>2</sup>**

*<sup>1</sup>Sahand University of Technology, Tabriz, Iran; <sup>2</sup>Amirkabir University of Technology, Tehran, Iran.*

**DETAILED ANALYSIS AND UNDERSTANDING OF CARBON/IRON COMPOSITE MICROFIBER CATALYSTS DERIVED FROM BLOOD HEMOGLOBIN PROTEIN FOR LITHIUM-OXYGEN BATTERIES**

**13:10 – 13:20**

**Madina IGIBAYEVA**

*University of Public Service-Ludovika, Budapest, Hungary*

**INTERNATIONAL COOPERATION IN THE FIELD OF WATER SECURITY: KAZAKHSTAN ON THE WAYS TO STABILITY**

**13:20 – 13:30**

**Sihem HEDJAL<sup>1</sup>, Abdelwaheb BENAMARA<sup>2</sup>**

*<sup>1</sup>Department of Geological Sciences, Frères Mentouri Constantine-1 University, Algeria; <sup>2</sup>Faculty of Science and Technology, Department of Civil Engineering, Ziane Achour Djelfa University, Algeria.*

**THE IMPACT OF ANTHROPOGENIC ACTIVITY ON WATER QUALITY IN THE SANHADJA WETLAND COMPLEX (NORTHEASTERN ALGERIA)**

**13:30 – 13:40**

**Eva Lota CIUGANSCHI**

*Tampere University of Applied Sciences, Tampere, Finland.*

**MUNICIPAL SOLID WASTE MANAGEMENT. ANALYSIS AND COMPARISON OF PRACTICES IN FINLAND AND THE REPUBLIC OF MOLDOVA**



**13:40 – 13:50**

**Leocadie ODOULAMI, Rene AYEMAN ZODEKON**

*Laboratoire Pierre PAGNEY, Climat, Eau, Ecosystème et Développement (LACEEDE) DGAT/FASHS/ Université d'Abomey-Calavi (UAC), Cotonou, République du Bénin*

**DELEGATED PUBLIC DRINKING WATER SERVICES IN THE MUNICIPALITY OF DASSA-ZOUME (BENIN)**

**13:50 – 14:00**

**Ruqayah Ali GRMASHA<sup>1,2,3,4</sup>, Osamah J. AL-SAREJI<sup>1,2,4</sup>, Mónika MEICZINGER<sup>1</sup>, Csilla STENGER-KOVÁCS<sup>3,5</sup>**

*<sup>1</sup>Sustainability Solutions Research Lab, Faculty of Engineering, University of Pannonia, Veszprém, Hungary; <sup>2</sup>Environmental Research and Studies Center, University of Babylon, Babylon, Al-Hillah, Iraq; <sup>3</sup>University of Pannonia, Faculty of Engineering, Center for Natural Science, Research Group of Limnology, H-8200 Veszprem, Hungary; <sup>4</sup>The School of Civil and Environmental Engineering graduate, University of New South Wales, Sydney, Kensington, Australia; <sup>5</sup>HUN-REN-PE Limnoecology Research Group Veszprém, Hungary.*

**THE CURRENT STATUS OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) POLLUTION IN LAKE BALATON SEDIMENT, HUNGARY**

**14:00 – 14:10**

**Olena MITRYASOVA, Oleksandra KOVALSKA**

*Petro Mohyla Black Sea National University, Mykolaiv, Ukraine.*

**WATER INSECURITY IN THE CITY OF MYKOLAIV UNDER WARTIME CONDITIONS**

**14:10 – 14:20**

**Olena MITRYASOVA, Viktor SMYRNOV, Andrii MATS**

*Petro Mohyla Black Sea National University, Mykolaiv, Ukrain.*

**THE STATUS OF THE SURFACE WATERS OF THE BUZKY ESTUARY WITHIN MYKOLAIV CITY: PRE-WAR AND WARTIME PERIODS**



**14:20 – 14:30**

**Afef SAI<sup>1,2</sup>, Sonia BEN YOUNES<sup>1,3</sup>, Ali ELLAFI<sup>1,4</sup>, Amel MOULA<sup>1,2</sup>, Juan Manuel SÁNCHEZ-YAÑEZ<sup>5</sup>, Mohamed Ali BORGHI<sup>2</sup>**

*<sup>1</sup>Faculty of Sciences of Gafsa, University campus of Ahmed Zarroug, 2112, University of Gafsa, Gafsa, Tunisia; <sup>2</sup>Laboratory of Biotechnology and Biomonitoring of the Environment and Oasis Ecosystems (LBBOE). Faculty of Sciences of Gafsa, University campus of Ahmed Zarroug, 2112, University of Gafsa, Gafsa, Tunisia; <sup>3</sup>Unité de Recherches n°17/ES/13, Faculté de Médecine de Tunis, Université de Tunis El Manar, Tunisie; <sup>4</sup>Laboratory of Analysis, treatment and valorisation of environment pollutants and products, Faculty of Pharmacy, Monastir University, Tunisia; <sup>5</sup>Environmental Microbiology Laboratory, Research Institute in Chemistry and Biology Universidad Michoacana de San Nicolás de Hidalgo. Morelia, Michoacán, México.*

### **ROCK PHOSPHATE AMENDMENT AND THE KEY ROLE OF SERRATIA PLYMUTHICA BMA1 STRAIN IN ENHANCING MINERAL NUTRITION AND HEAVY METAL RHIZO-ACCUMULATION IN VICIA FABA L.**

**14:30 – 14:50**

**Sara ELHAMJI<sup>1,2</sup>, Maryem MINHAJ<sup>1,2</sup>, Karim SBIHI<sup>1,3</sup>, Jihen ELLEUCH<sup>4</sup>, Naaila OUAZZANI<sup>1,2</sup>, Faissal AZIZ<sup>1,2</sup>**

*<sup>1</sup>National Centre for Research and Study on Water and Energy (CNEREE), University Cadi Ayyad, Marrakech, Morocco; <sup>2</sup>Laboratory of Water, Biodiversity and Climate Changes, Semlalia Faculty of Sciences, B.P.2390, 40000, Marrakech, Morocco; <sup>3</sup>Laboratory Analysis, Modelling, Engineering, Natural Substances and Environment, Natural, Substances, Health and Environment Team, Polydisciplinaire Faculty of Taroudant, University Ibn Zohr, Morocco; <sup>4</sup>Laboratoire de Génie Enzymatique et Microbiologie, Equipe Biotechnologie des Algues, Ecole Nationale d'Ingénieurs de Sfax, Université de Sfax, Sfax, Tunisia.*

### **COMPARATIVE EVALUATION OF PHENOL REMOVAL BY MICROALGAE FROM VARIED ECOSYSTEMS**

**14:50 – 15:00**

**Rainiel Brkyan V. DOMASIAN**

*Iaguna State Polytechnic University Los Banos Campus, Philippines*

### **EVALUATION OF CONTAMINANT LEVELS IN WATER, SEDIMENTS, AND FISH FOR HEALTH RISK ASSESSMENT IN AQUATIC ECOSYSTEMS**





**15:00 – 15:10**

**Imane HAYDARI<sup>1,2</sup>, Jamila SABYH<sup>1,2</sup>, Jihen ELLEUCH<sup>3</sup>, Naaila OUAZZANI<sup>1,2</sup>, Laila MANDI<sup>1,2</sup>, Faissal AZIZ<sup>1,2</sup>**

*<sup>1</sup>Laboratory of Water, Biodiversity, and Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, BP 2390, 40000, Marrakech, Morocco; <sup>2</sup>National Center for Research and Studies on Water and Energy (CNEREE), Cadi Ayyad University Marrakech, Morocco; <sup>3</sup>Laboratory of Enzymatic Engineering and Microbiology, National Engineering School of Sfax, University of Sfax, Sfax, Tunisia.*

### **SUSTAINABLE NANOPARTICLE SYNTHESIS FOR EFFICIENT PHENOL ELIMINATION IN OLIVE MILL EFFLUENTS**

**14:10 – 15:20**

**Mustafa HATHAL, Viola SOMOGYI**

*Sustainability Solutions Research Laboratory, Faculty of Engineering, University of Pannonia, Veszprém, Hungary.*

### **NUMERICAL SIMULATION AND FLOW VISUALIZATION OF BAGHDAD CITY TIGRIS RIVER USING COMSOL MULTIPHYSICS**

**15:20 – 15:30**

**Maryem MINHAJ<sup>1,2</sup>, Sara ELHAMJI<sup>1,2</sup>, Karim SBIHI<sup>1,3</sup>, Jihen ELLEUCH<sup>4</sup>, Naaila OUAZZANI<sup>1,2</sup>, Faissal AZIZ<sup>1,2</sup>**

*<sup>1</sup>National Centre for Research and Study on Water and Energy (CNEREE), University Cadi Ayyad, Marrakech, Morocco; <sup>2</sup>Laboratory of Water, Biodiversity and Climate Changes, Semlalia Faculty of Sciences, Marrakech, Morocco; <sup>3</sup>Laboratory Analysis, Modelling, Engineering, Natural Substances and Environment, Natural, Substances, Health and Environment Team, Polydisciplinaire Faculty of Taroudant, University Ibn Zohr, Morocco; <sup>4</sup>Laboratoire de Génie Enzymatique et Microbiologie, Equipe Biotechnologie des Algues, Ecole Nationale d'Ingénieurs de Sfax, Université de Sfax, Sfax, Tunisia.*

### **DIATOM EFFICIENCY IN ORGANIC MICROPOLLUTANTS REMOVAL: AN EVALUATION STUDY**



**15:30 – 15:40**

**Abdelfettah GHERIB<sup>1,2</sup>, Inês DOMINGUES<sup>3</sup>**

*<sup>1</sup>Laboratory of Environmental Analysis, Biotechnology Research Centre (CRBt), Constantine, Algeria; <sup>2</sup>Laboratory of Biology and Environment (LBE), Department of Biology and Plant Ecology, University of Brothers Mentouri Constantine 1, Constantine, Algeria; <sup>3</sup>Department of Biology & Centro de Estudos do Ambiente e do Mar (CESAM), University of Aveiro, Campus Universitário de Santiago, Aveiro, Portugal.*

### **DEVELOPMENTAL, BEHAVIORAL AND BIOCHEMICAL EFFECTS OF ANTHRACENE AND Pb+2 TO ZEBRAFISH EMBRYOS**

**15:40 – 15:50**

**Nathalie PANO<sup>1</sup>, Nada NEHME<sup>2</sup>, Jalal HALWANI<sup>1,3</sup>, Kostas KARANTININIS<sup>4</sup>, Najah TALEB<sup>2</sup>**

*<sup>1</sup>Lebanese University, Doctoral School of Science and Technology, Hadath, Lebanon; <sup>2</sup>Lebanese University, Faculty of Agricultural Engineering and Veterinary Medicine, Dekwene, Lebanon; <sup>3</sup>Lebanese University, Water & Environment Science Lab, Tripoli, Lebanon; <sup>4</sup>Swedish University of Agricultural Sciences, Alnarp, Sweden.*

### **LEBANESE AGRO INDUSTRIES' KNOWLEDGE IN FOOD LOSS IS AN INITIAL STEP TOWARD THE SUSTAINABLE DEVELOPMENT GOAL 12.3**

**15:50 – 16:00**

**Abdelhaq EL ARRAM<sup>1</sup>, Achraf Berradi<sup>1,2</sup>, Ahlam Lafdali<sup>1,2,3</sup>, Faissal AZIZ<sup>1,2</sup>**

*<sup>1</sup>National Center for Research and Studies on Water and Energy (CNEREE), Cadi Ayyad University, Marrakech, Morocco; <sup>2</sup>Laboratory of Water, Biodiversity, and Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco; <sup>3</sup>Laboratory of Innovative Materials, Energy and Sustainable Development (IMED-Lab), Faculty of Science and Technology, Cadi Ayyad University, Marrakech, Morocco.*

### **ECO-FRIENDLY POLYSACCHARIDE-BASED HYDROGELS FOR SUSTAINABLE IRRIGATION**



**16:00 – 16:10**

**Mouhsine BELLAJ<sup>1</sup>, Hicham YAZID<sup>2</sup>, Abdelmajid REGTI<sup>2</sup>, Mohammadine EL HADDAD<sup>2</sup>, Abdelkrim ABOURRICHE<sup>1</sup>, Lhoucine GEBRATI<sup>1</sup>, Faissal AZIZ<sup>3,4</sup>**

*<sup>1</sup>Laboratory of Materials, Process, Environment, and Quality, National School of Applied Sciences, Cadi Ayyad University, Safi, Morocco; <sup>2</sup>Laboratory of Analytical and Molecular Chemistry, Faculty Poly-disciplinary of Safi, Cadi Ayyad University, Safi, Morocco; <sup>3</sup>Laboratory of Water, Biodiversity, and Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco; <sup>4</sup>National Center for Research and Studies on Water and Energy, Cadi Ayyad University, Marrakech, Morocco.*

**COMPREHENSIVE STUDY ON THE EFFICIENT ELIMINATION OF ALIZARIN RED S DYE IN WATER USING AN ECO-FRIENDLY CLAY-CHITOSAN COMPOSITE: EXPERIMENTAL AND THEORETICAL INVESTIGATION**



11:00 – 12:20

## Technical Session D

### *Artificial intelligence, Bioinformatics, Circular Economy Strategy*

Teams Join Link:

<https://teams.microsoft.com/l/meetup-join/19%3a391VsyFnU23ay5k-ofLtpIcJhEO1A-vSr2E6FPU3bFI1%40thread.tacv2/1715189926936?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

*Chair of the Session: Ijaz Ahmad TATLAH*

11:00 – 11:20

**Keynote speaker:**

**Ijaz Ahmad TATLAH<sup>1</sup>, Durr-e-SHAHWAR<sup>2</sup>**

*<sup>1</sup>University of Education, Lahore, Pakistan; <sup>2</sup>Lahore University of Management Sciences, Lahore, Pakistan*

**ARTIFICIAL INTELLIGENCE REVOLUTION IN EDUCATION AND WAY FORWARD  
ARTIFICIAL INTELLIGENCE REVOLUTION IN EDUCATION AND WAY FORWARD**

11:20 – 11:35

**Invited Speaker**

**Rashmi RATHORE**

*B.H. Medical College Medicine. Image consulting. Soft skills training Jaipur, Rajasthan, India*

**SUSTAINABLE FASHION -THE ONLY REMEDY FOR FAST FASHION**

**Invited Speaker**

11:35 – 11:50

**Neha Singh RAGHUVANSHI, Arpita JOHARI, Mudit SAXENA**

*ABES Engineering College, Ghaziabad, Uttar Pradesh, India.*

**SECURING THE BIOSPHERE FOR FUTURE GENERATIONS USING ARTIFICIAL INTELLIGENCE**



**11:50 – 12:00**

**Mohamed Sabri BENSAAD**

*Department of Biology of Organisms, Faculty of Natural and Life Sciences,  
University Batna 2, Fesdis, Batna, Algeria.*

**COMPUTATIONAL ESTIMATION OF THE ECO-TOXICITY RISKS,  
BIODEGRADABILITY, PERSISTENCE AND BIOACCUMULATION  
FACTOR OF FOUR BIO-COMPOUNDS**

**12:00 – 12:10**

**Karim ENNOURI<sup>1</sup>, Monia ENNOURI<sup>2</sup>, Mohamed Ali TRIKI<sup>2</sup>**

*<sup>1</sup>Digital Research Center of Sfax, Sfax, Tunisia; <sup>2</sup>Olive tree institute, Sfax,  
Tunisia*

**EXAMINING SOIL CHARACTERISTICS USING SATELLITE-BASED  
IMAGING TECHNIQUES**

**12:10 – 12:20**

**Mohamed DASSAMIOUR<sup>1</sup>, Djamel SAMAI<sup>2</sup>, Naima FAGHMOUS<sup>3</sup>, Rédha  
BOUSTILA<sup>4</sup>**

*<sup>1</sup>Department of Geological Sciences, Faculty of Earth Sciences, Geography  
and Spatial Planning, Constantine 1 - Frères Mentouri University,  
Constantine, Algeria; <sup>2</sup>Univ Ouargla, Fac. des nouvelles technologies de  
l'information et de la communication. Lab. de Génie Électrique, Ouargla,  
Algeria; <sup>3</sup>Process Engineering Laboratory for Sustainable Development and  
Health Products, National Polytechnic School of Constantine, Constantine,  
Algeria; <sup>4</sup>Département des Sciences de la Terre, Institut d'Architecture et des  
Sciences de la Terre, Université Ferhat Abbas Sétif 1, Sétif, Algeria.*

**GROUP METHOD OF DATA HANDLING-BASED MODELS FOR  
PREDICTING ARSENIC CONCENTRATION IN SEDIMENTARY  
PHOSPHATE ROCK**

**Lunch time.**



**11:00 – 11:50**

## **Technical Session E**

### **Energy Research & Applications**

*Teams Join Link:*

<https://teams.microsoft.com/l/meetup-join/19%3aePnmYthq24qy5zFISZNf508T1MNwdHh3kz9gO34L-Fc1%40thread.tacy2/1715190066913?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

**Chair of the Session:** *Emőke IMRE*

**11:00 – 11:20**

#### **Invited Speaker**

**Emőke IMRE<sup>1,2</sup>, László TÓTH<sup>2</sup>, Péter FELKER<sup>1</sup>, Ákos NEMCSICS<sup>2,5</sup>, Antal ÜRMÖS<sup>2,5</sup>, Tamás WEIDINGER<sup>6</sup>, Martin MAYER<sup>3</sup>, Tibor PÁLINKÁS<sup>1</sup>, Gábor MILE<sup>4</sup>, Lily TANUI<sup>7</sup>, Ulsbold AYURZANA<sup>7</sup>, Delphin KABEY<sup>2</sup>, Habaguhirwa VEDASTE<sup>1</sup>, Ágnes BÁLINT<sup>2,8</sup>, Ervin RÁCZ<sup>2,5</sup>, Zoltán KAPROS<sup>10</sup>**

<sup>1</sup>*Bánki Donát Faculty, Óbuda University, Budapest, Hungary;* <sup>2</sup>*Hydro-Bio-Mechanical Systems Research Center, Óbuda University;* <sup>3</sup>*Department of Energy Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics, Hungary;* <sup>4</sup>*FKF Zrt., Budapest, Hungary;*

<sup>5</sup>*Kandó Kálmán Faculty, Óbuda University, Budapest, Hungary;* <sup>6</sup>*Faculty of Social Sciences, Eötvös Loránd University, Budapest, Hungary;* <sup>7</sup>*Doctoral School of Applied Informatics and Applied Mathematics, Óbuda University;*

<sup>8</sup>*Rejtő Sándor Faculty, Óbuda University, Budapest, Hungary;* <sup>9</sup>*Faculty of Engineering and Information Technology, University of Pécs, Hungary;*

<sup>10</sup>*Ministry of Construction and Transport, Hungary.*

#### **ENERGY UTILISATION OF MSW LANDFILL HILLS SITES OF HUNGARY**

**11:20 – 11:30**

**Amberbir WONDIMU, Yang CHAOJUN, Guo YAFE, Ebenezer OMARI**

*School of Mechanical Engineering, Jiangsu University, Zhenjiang, China*

#### **DESIGN OF NOVEL COAXIAL MAGNETIC FOR HIGH POWER DENSITY APPLICATIONS**



**11:30 – 11:40**

**Abdelkader HEMAIZIA<sup>1</sup>, Dominique THEVENIN<sup>2</sup>**

*<sup>1</sup>Faculty of Mechanical engineering and Processes engineering, USTHB, Algeria; <sup>2</sup>Institute of Fluid Dynamics and Thermodynamics, OVGU, Germany.*

**STUDY OF POLLUTANT EMISSIONS FORMATION IN A PREMIXED BURNER MODEL: EFFECTS OF EQUIVALENCE RATIO AND GEOMETRY MODIFICATION**

**11:40 – 11:50**

**Mathapelo Kgolomela MOTIMELE**

*Széchenyi Istvan University, Győr, Hungary*

**ENERGY CRISIS IN SOUTH AFRICA: ASSESSMENT OF THE EFFECTS OF LOAD SHEDDING ON THE LOGISTICS CONTEXT**

**Lunch time.**



## **POSTER SESSION (A, B, C, D AND E)**

**16:30 – 18:30**

### **Teams Join Link:**

<https://teams.microsoft.com/l/meetup-join/19%3aA0WuuY4-BvVAOa6MsUbb0NDtsAos4wmnUj3C7hrnYo1%40thread.tacv2/1715187547129?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

### **Chair of the Session:**

**Hosam BAYOUMI HAMUDA**

**16:30 – 16:35**

**Asad ULLAH**

*Khayaban-e-Jinnah Road, Johar Town, Lahore, Pakistan,*

**GRAPHENE, A GAME-CHANGER IN SCIENCE AND TECHNOLOGY**

**16:35 – 16:40**

**Hafiza Qurat ul Ain SAMI**

*Nano and Biomaterials Lab, Department of Chemistry, University of Agriculture, Faisalabad 38040, Pakistan*

**ENVIRONMENTALLY SAFE MAGNETIC NANOCATALYST FOR THE PRODUCTION OF BIODIESEL FROM PONGAMIA PINNATA OIL**

**16:40 – 16:45**

**Evan DAYOUB, Jihad IBRAHIM, Samar HASAN, Ola KAJO**

*Tishreen University, Latakia, Syria.*

**THE EFFECT OF WOODY BIOCHAR ON SOIL BULK DENSITY AND PORE SIZE DISTRIBUTION**





**16:45 – 16:50**

**Sara MOGHNIE<sup>1,2</sup>, Jalal HALWANI<sup>1</sup>, Khaled YOUNES<sup>2</sup>, Grasset LAURENT<sup>3</sup>**

*<sup>1</sup>Water and Environment Sciences Laboratory, Lebanese University, Tripoli, Lebanon; <sup>2</sup>College of Engineering and Technology, American University of the Middle East, Kuwait; <sup>3</sup>Université de Poitiers, Institut de Chimie des Milieux et Matériaux de Poitiers IC2MP CNRS UMR 7285, Equipe Eaux, Biomarqueurs, Contaminants Organiques, Milieux, France.*

**THE APPLICATION OF HMDS THERMOCHEMOLYSIS FOR THE MOLECULAR CHARACTERIZATION OF AN OMBROTROPHIC PEAT BOG: A PRINCIPAL COMPONENT ANALYSIS APPROACH**

**16:50 – 16:55**

**Lara Rúbia BORGES SILVA, Levente KARDOS**

*Institute of Environmental Sciences, Department of Agro-Environmental Studies, Hungarian University of Agriculture and Life Sciences, Budapest, Hungary.*

**PROMOTING ENVIRONMENTAL HEALTH THROUGH PÁLINKA SPENT WASH COMPOSTING**

**16:55 – 17:00**

**Karima DRICI<sup>1,2</sup>, Cherifa ABDELBAKI<sup>3</sup>, Yamina EL MEDDAHI<sup>1,2</sup>**

*<sup>1</sup>Department of Hydraulics, Faculty of Civil Engineering and Architecture, University of Hassiba Benbouali Chlef, Algeria; <sup>2</sup>Vegetal Chemistry -Water-Energy Laboratory, University of Chlef, Algeria; <sup>3</sup>EOLE laboratory, Faculty of Technology, University of Tlemcen, Algeria.*

**A HIERARCHICAL ANALYTICAL PROCESS TO ASSESS THE LONG-TERM BEHAVIOR OF THE WATER SUPPLY SYSTEM – CASE OF KHEMIS MILIANA, AIN DEFLA, ALGERIA**

**17:00 – 17:05**

**Iryna GUMENIUK, Alla LEVISHKO**

*Department of Agroecology and Biosafety, Institute of Agroecology and Environmental Management of NAAS, Kyiv, Ukraine.*

**SOIL MICROBIOCENOSIS IN THE CURRENT STATE**



**17:05 – 17:10**

**Nazarii SUS<sup>1</sup>, Liliya JANSE<sup>2</sup>, Anatolii ORLOVSKYI<sup>3</sup>, Viktoriia TSVIHUN<sup>4</sup>**

*<sup>1</sup>Institute of Agroecology and Environmental Management of the National Academy of Agrarian Sciences of Ukraine, Kyiv, Ukraine; <sup>2</sup>National Academy of Agrarian Sciences of Ukraine, Kyiv, Ukraine; <sup>3</sup>Institute of Horticulture of the National Academy of Agrarian Sciences of Ukraine, Novosilky, Ukraine; <sup>4</sup>Institute of Agroecology and Environmental Management of the National Academy of Agrarian Sciences of Ukraine, Kyiv, Ukraine.*

**FACTORS EFFECTING HOST PREFERENCES OF METCALFA PRUINOSA (SAY, 1830)**

**17:10 – 17:15**

**Anatolii ORLOVSKYI<sup>1</sup>, Nazarii SUS<sup>2</sup>, Iryna GUMENIUK<sup>3</sup>, Viktoriia TSVIHUN<sup>4</sup>**

*<sup>1</sup>Institute of Horticulture of the National Academy of Agrarian Sciences of Ukraine, Novosilky, Ukraine; <sup>2</sup>Institute of Agroecology and Environmental Management of the National Academy of Agrarian Sciences of Ukraine, Kyiv, Ukraine; <sup>3</sup>Institute of Agroecology and Environmental Management of the National Academy of Agrarian Sciences of Ukraine, Kyiv, Ukraine; <sup>4</sup>Institute of Agroecology and Environmental Management of the National Academy of Agrarian Sciences of Ukraine, Kyiv, Ukraine.*

**WHY IS IT IMPORTANT TO MONITOR PESTS AND PATHOGENS OF THE COMMON HOP IN URBAN ECOSYSTEMS?**

**17:15 – 17:20**

**A. Bunas, V. Dvoretzkyi**

*Institute of Agroecology and Environmental Management of NAAS, Metrologichna, Kyiv, Ukraine.*

**THE STATE OF THE SOIL MICROORGANISM COMMUNITY UNDER THE INFLUENCE OF THE ORGANO-MINERAL FERTILISER DIAMOND GROW**

**17:20 – 17:25**

**Ye. Tkach, I. Movchan**

*Institute of Agroecology and Environmental Management of NAAS, Metrologichna, Kyiv, Ukraine*

**ALTERNATIVE CARBON IN AGRICULTURAL PRODUCTION**



***17:25 – 17:30***

**Viktoriya STARODUB, Yevheniia TKACH, Andrii KRYZHANIVSKYJ**

*Department of Agroecology and Biosafety, Institute of Agroecology and Environmental Management of NAAS, Kyiv, Ukraine.*

**FREQUENCY OF OCCURRENCE, ABUNDANCE OF ADVENTIVE PLANT SPECIES IN AGROCENOSES (ON THE EXAMPLE OF ODESA REGION)**

***17:35 – 17:40***

**Viktoriya TSVIHUN, Iryna GUMENIUK**

*Department of Agroecology and Biosafety, Institute of Agroecology and Environmental Management of NAAS, Kyiv, Ukraine*

**VIRAL AND BACTERIAL DISEASES OF PLANTS IN FOREST ECOSYSTEMS OF UKRAINE**



**10<sup>h</sup> of May 2024 (Friday)**

**09:00 – 10:30**

**Plenary Session B**

*Teams Join Link (please note, that the whole Friday event will be in the same Teams meeting):*

<https://teams.microsoft.com/l/meetup-join/19%3axYztLyjgWDY3eOubZr1VtI0i-2lZG8gRBDyXpu7p3gc1%40thread.tacv2/1715190471899?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

**Chair of the Session: Giuseppe CIABURRO**

**PI4: 09:00 – 09:30**

**Ayan CHATTERJEE**

*Department of Allied Health, School of Health and Medical Sciences, Adamas University, India*

**IMPACT OF CLIMATE CHANGE ON CARDIAC PERFORMANCE**

**PI5 09:30 – 10:00**

**Salma LATIQUE**

*Biomedical and Translational Research Laboratory, Faculty of Medicine, Pharmacy and Dentistry of Fez, Sidi Mohamed Ben Abdellah University, Morocco.*

**EXPLORING THE POTENTIAL OF MICROALGAE-DERIVED BIOACTIVE COMPOUNDS FOR NUTRACEUTICAL AND PHARMACEUTICAL APPLICATIONS: CURRENT STATUS AND FUTURE DIRECTIONS**

**PI6 10:00 – 10:30**

**Sándor J. Zsarnóczai, Hosam E.A.F. BAYOUMI HAMUDA**

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

**SUSTAINABILITY OF FOOD SUPPLY OF MIDDLE-EAST, NORTH-AFRICA AND INDIA BETWEEN 2010-2020**



**10:30 – 11:30**

**Technical Session A, B, C, D, and E**

*Teams Join Link (please note, that the whole Friday event will be in the same Teams meeting):*

<https://teams.microsoft.com/l/meetup-join/19%3axYztLyjgWDY3eQubZr1VtI0i-2lZG8gRBDyXpu7p3gc1%40thread.tacv2/1715190471899?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

**Chair of the Session:**

**Hosam BAYOUMI HAMUDA**

**10:30 – 10:50**

**Keynote Speaker:**

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

*<sup>1</sup>Hungarian Sheep and Goat Dairying Public Utility Association Érd, Hungary; <sup>2</sup>University of Tokaj, Sárospatak, Hungary; <sup>3</sup>Angus Ltd, Adony, Hungary.*

**MITIGATION OF THE ENVIRONMENTAL EFFECTS OF FATTENING CATTLE BY USING BENTONITE CLAY MINERAL AS A FEED SUPPLEMENT**

**10:50 – 11:00**

**Asma BEN AMARA<sup>1,2,3</sup>, Manel CHEFFI<sup>2</sup>, Monia EL HAJJI<sup>3</sup>, Emna AMMAR<sup>1,4</sup>, Mohamed Ali TRIKI<sup>2</sup>**

*<sup>1</sup>Laboratory of Environmental Sciences and Sustainable Development, University of Sfax, Preparatory Institute for Engineering Studies of Sfax, Sfax, Tunisia; <sup>2</sup>Laboratory of Improvement and Protection of Olive Tree Genetic Resources, Olive Tree Institute, University of Sfax, Sfax, Tunisia; <sup>3</sup>Laboratory of Advanced Research in Industrial and Logistic Engineering, Team OSIL, National High School of Electrical and Mechanical Engineering, University Hassan II, Casablanca, Morocco; <sup>4</sup>Laboratory of Environment Sciences and Sustainable Development, University of Sfax, National Engineering School of Sfax, Tunisia.*

**THE ANTIFUNGAL ACTIVITY OF TWO-FERMENTED COMPOST TEAS AGAINST FUSARIUM CROWN AND ROOT ROT**



**11:00 – 11:10**

**Meriem BENAMARA-BELLAGHA, Malika BARKAT1, Rim Tinhinene MAOUGAL**

*Biotechnology and food quality laboratory (Bioqual,) INATAA, UFMCI, Constantine, Algeria.*

**OLIVE POMACE VALORIZATION OLIVE POMACE VALORIZATION**

**11:20 – 12:00**

***Workshop Special Session:  
Environmental Health and Climatic Change (How  
humanity can solve climate change, alleviate poverty, and  
save biodiversity)***

**Keynote Speaker**

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

*Obuda University, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Institute of Environmental Engineering and Natural Sciences, Budapest, Hungary.*

**ORGANIC SOIL AND FARMING: AS CLIMATE WARMING ADAPTATION AND MITIGATION STRATEGIES**

**12:15**

***Closing the Symposium***