



*16<sup>th</sup> ICEEE-2025 Online International Anniversary Conference*  
*“Global Environmental Development & Sustainability: Research, Engineering & Management”*  
*November 20 - 21, 2025*  
*Óbuda University, Budapest, Hungary*

## **PROGRAM OF THE CONFERENCE**

### **Heartiest Greetings from ICEEE and Óbuda University**

The Organizing Committee of the 16th ICEEE-2025 Conference (Global Environmental Development & Sustainability: Research, Engineering & Management with Workshop Special Session: Environmental Health and Climatic Change) sincerely takes the honour & compliments to thank you to take part in the 16th ICEEE-2025 during 20<sup>th</sup> – 21<sup>st</sup> of November 2025 at ONLINE.

Today, people around the world can connect online, and can access and disseminate vast amounts of knowledge and information quickly and easily. At the same time, increasing the availability of information & openness between these institutions has allowed greater understanding of the challenges facing the future of our global society with the increasing rate of the human population during the period from 2010 to 2025.

We would like to encourage and amplify the transfer of knowledge between scientists with different backgrounds and from different disciplines who study, solve or apply the same types of equations. At the same time, we are taking this opportunity to explore new forms of communication in Conference publishing **Proceedings Book with ISBN.**

### **The Conference is carrying out under the auspices of:**

*Prof. Dr. Levente KOVÁCS*

Rector, Óbuda University

### **Presidency of the Conference:**

*Dr. László KOLTAI*

Dean, Rejtő Sándor Faculty of Light  
Industry & Environmental Engineering

*Dr. Rita BODÁNÉ-KENDROVICS*

Director, Institute of Environmental  
Engineering & Natural Sciences

*Prof. Dr. Hosam BAYOUMI HAMUDA*

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



**Attention:**

- The Conference will be held through **Microsoft Teams**.
- To join the Conference: you will have a short guide with useful information about how to use the Microsoft Teams during the Conference
- The time of the Conference is related to the **Hungarian time**.
- Please check the time with your time at home

**20<sup>th</sup> of November 2025 (Thursday)**

**All schedule times are given in Budapest local time (CET, GMT+1).**

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

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?context=%7b%22id%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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?context=%7b%22id%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*

*Conference Chair*

**Dr. László KOLTAI - Dean**

*Rejtő Sándor Faculty of Light Industry & Environmental  
Engineering*

**Prof. Dr. László Gulácsi**

*Vice Rector for Research, Óbuda University*

**Dr. Rita BODÁNÉ-KENDROVICS - Deputy Dean**

*Director, Institute of Environmental Engineering & Natural  
Sciences*

**Dr. Edit CSANÁK - Deputy Dean**

*Director, Institute of Product Design*

**09:30 – 11:10**

**Plenary Session**

**Chair of the Session:**

**Rita BODÁNÉ-KENDROVICS**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

**09:30 – 09:50 Ngboawaji Daniel Nte**

*Department of Intelligence of Intelligence and Security Studies & Provost, College of Management and Social Sciences, Novena University, Ogume, Delta State, Nigeria*

**ENVIRONMENTAL INTELLIGENCE, ECO TOXICOLOGY AND POLLUTION IN THE NIGER DELTA: AN EVALUATION OF HUMAN SECURITY IMPLICATIONS OF MINORITY SOCIAL EXCLUSION IN NIGERIA**

**09:50 – 10:10 Giuseppe Ciaburro**

*Department of Engineering, Faculty of Engineering and Informatics, Pegaso University, Naples, Italy*

**ACOUSTIC IMPACT ASSESSMENT OF WIND TURBINES USING SCADA DATA AND MACHINE LEARNING**

**10:10 – 10:30**

**B.S. Panwar<sup>1</sup>, Rahima Nurumamatova<sup>2</sup>,  
Uiugbek<sup>2</sup>, Larisa Sabirovna Yakubova<sup>3</sup>,  
Kholikova S. N. Uzbekistan<sup>3</sup>**

<sup>1</sup>Department of Soil Science, CCS Haryana Agricultural University, Hisar, India

<sup>2</sup>Centre for Training of Staff of the Ministry of Poverty Reduction and Employment of the Republic of Uzbekistan, Tashkent, Uzbekistan

<sup>3</sup>Department of Industrial Engineering, Karshi State University, Kaeshi, Republic of Uzbekistan

**THE SOILS, SOIL HEALTH AND CURE OF ITS SICKNESS**

**10:30 – 10:50 Abbas Ali Ghezelsfloo<sup>1</sup>, Marzieh Mohammadi  
aria<sup>2</sup>, Ben Jarihani<sup>3</sup>**

<sup>1</sup>Islamic Azad University of Mashhad, Mashhad, Iran

<sup>2</sup>Isfahan University of Technology, Isfahan, Iran

<sup>3</sup>James Cook University, Australia

**LONG-TERM CHANGES IN WATER QUALITY LINKED TO CLIMATE  
AND HUMAN ACTIVITY IN A SEMI-ARID RIVER**

**10:50 – 11:10**      ***Neha Singh Raghuvanshi***

ABES Engineering College, Ghaziabad, Uttar Pradesh, India

**DRONES, DNA, AND DEFORESTATION: NEW-AGE EYES WATCHING  
OLD-GROWTH FORESTS**

**11:10 – 11:20**

**BREAK**

**11:20 – 13:00**

***Keynote Session-1***

***Chair of the Session:***

***Hosam BAYOUMI HAMUDA***

**11:20 – 11:35**

***Surendra Kumar Yadav***

Environmental Conservation, Institute of SEHAT, New Delhi, India

**SPATIAL TECHNOLOGY BASED APPROACH TO ENHANCE CROWN  
DENSITY WITH INDIGENOUS PLANTS IN DELHI REGION (INDIA)**

**11:35 – 11:50**

***Magdalena Podbielska, Ewa Szpyrka, Małgorzata  
Kus-Liśkiewicz***

Faculty of Biotechnology, University of Rzeszów, Rzeszów, Poland

**A SUSTAINABLE APPROACH TO PLANT PROTECTION:  
BIODEGRADATION OF FUNGICIDE RESIDUES AND IMPROVEMENT  
OF FOOD SAFETY**

**11:50 – 12:05**

***Vijaya Kittu MANDA<sub>1</sub>, Theodore TARNANIDIS<sub>2</sub>,  
Lela MIRTSKHULAVA<sub>3</sub>***

<sup>1</sup>PBMEIT, Visakhapatnam, India

<sup>2</sup>University of Macedonia, Thessaloniki, Greece

<sup>3</sup>Computer Science Department, Ivane Javakhishvili Tbilisi State University, Tbilisi,  
Georgia

**PREPARING SKILLED PROFESSIONALS FOR SUSTAINABLE  
NANOMATERIALS INNOVATION USING ARTIFICIAL INTELLIGENCE**

**12:05 – 12:20**      ***Ágnes Bálint<sup>1</sup>, Lakatos Balázs<sup>1</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

**WILDFLOWER GARDENS AS KEY ELEMENTS OF URBAN ECOSYSTEM  
DIVERSITY**

**12:20 – 12:35**      ***Georgina Tóth-Nagy***

University of Pannonia, Engineering Faculty, Sustainable Solutions Research Laboratory,  
Veszprém, Hungary

**CLIMATE ADAPTATION KPIS FOR SMALL MUNICIPALITIES – CASE  
STUDY: BALATON RIVIERA**

**12:35 – 12:50**      ***Vera Alpár***

Department of Social Sciences, Faculty of Business and Social Sciences, Budapest  
Metropolitan University, Budapest, Hungary

**THE PERCOLATION-FRACTAL NETWORK MODEL (PFNM): A  
PREDICTIVE FRAMEWORK FOR ENVIRONMENTAL AND SYSTEMIC  
TRANSITIONS**

**12:50 – 13:05**      ***Emőke Imre<sup>1,2,3</sup>, Ágnes Bálint<sup>1,2,4</sup>, Delphin K.  
Mwinken<sup>3</sup>, Adane Akate<sup>3</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>Doctoral School of Applied Informatics and Applied Mathematics, Óbuda University

<sup>4</sup>Rejtő Sándor Faculty, Óbuda University, Budapest, Hungary

**SOME NOTES ON GLOBAL PERMEABILITY – GRADING CURVE  
EXPRESSIONS AND THEIR GRADING CURVE VARIABLES**

**13:05 – 13:30**

**LUNCH BREAK**

13:30 – 14:50

**Technical Session – 1**

**Session (A): Healthcare & Public Health Sustainability: Risk & Management**

**Chair of the Session:**

**Hosam BAYOUMI HAMUDA**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

13:30 – 13:40

**Innocent Tayari Mwizerwa<sup>1</sup>, Zhuyu Sun<sup>1,2</sup>,  
Xiaoxiang Zhao<sup>1,2</sup>**

<sup>1</sup>College of Environmental Science and Engineering, Donghua University, Shanghai, People's Republic of China.

<sup>2</sup>Textile Pollution Controlling Engineering Center of Ministry of Environmental Protection, Shanghai, People's Republic of China

**ORIGIN, FATE, DESTINY AND REMEDIATION OF PER- AND  
POLYFLUOROALKYL SUBSTANCES (PFAS) IN AQUATIC  
ECOSYSTEMS: AN OVERVIEW**

13:40 – 13:50

**Anwar Rovik<sup>1,3</sup>, Ayu Rahayu<sup>1</sup>, Oktaviani Naulita  
Turnip<sup>2</sup>, Edwin Widyanto Daniwijaya<sup>1,3</sup>**

<sup>1</sup>Universitas Gadjah Mada, Yogyakarta, Indonesia

<sup>2</sup>Universitas Palangka Raya, Kalimantan Tengah, Indonesia

<sup>3</sup>Universitas Gadjah Mada Academic Hospital, Yogyakarta, Indonesia

**EPIDEMIOLOGY FEATURE AND CLIMATOLOGICAL EFFECTS ON  
FUTURE MALARIA CONTROL IN INDONESIA**

13:50 – 14:00

**Mohammad Ali Khaliji<sup>1</sup>, Kamran Jafarpour  
Ghelehtemouri<sup>2,3,4</sup>**

<sup>1</sup>Department of Urban Planning, Ahv. C., Islamic Azad University, Ahvaz, Iran

<sup>2</sup>Department of Geographical Sciences, Faculty of Geography and Urban planning, Kharazmi University, Human Sciences building 4th floor, Tehran, Iran

<sup>3</sup>Disaster Preparedness & Prevention Centre, Malaysia-Japan International Institute of Technology, Universiti Teknologi, Kuala Lumpur, Malaysia

<sup>4</sup>Environmental Resilience and Sustainability, Malaysia-Japan International Institute of Technology, Universiti Teknologi Kuala Lumpur, Malaysia

**OPTIMIZING FIRE STATION LOCATIONS USING NETWORK ANALYSIS AND SPATIAL SUITABILITY ASSESSMENT FOR ENHANCED EMERGENCY RESPONSE IN URBAN AREAS**

**14:00 – 14:10**      ***Warda Hussaini, Nayab Yasir, Yusuf Munir***

Department of Public Administration, University of Karachi, Karachi, Pakistan

**GREEN FINANCIAL MANAGEMENT PRACTICES AND THEIR IMPACTS ON BANKING SYSTEM OF DEVELOPING ECONOMIES IN ACHIEVING SUSTAINABILITY**

**14:10 – 14:20**      ***Oleksandr Pyvovarov***

Kharkiv National Medical University Kharkiv, Ukraine

**USING GOOGLE TRENDS TO DETERMINE INTEREST IN GLUCOSE-LOWERING DRUGS IN HEALTHCARE**

**14:20 – 14:30**      ***Namiq Sihami, Elmourid Abdessamad<sup>1,2</sup>,  
Bouimeja Btissami<sup>1,4</sup>, Namous Mustapha<sup>5</sup>,  
Khadra Ahmed<sup>3</sup>, Touloun Oulaidi***

1Polyvalent Team of Research and Development (EPVRD), Polydisciplinary Faculty, Sultan Moulay Slimane University, Beni Mellal, Morocco

2Higher Institute of Nursing and Health Techniques (ISPITS), Ministry of health and social protection, Beni Mellal, Morocco

3Laboratory of Ecotoxicology, Bioresources and Coastal Geomorphology, Department of Biology, Polydisciplinary Faculty, Cadi Ayyad University, Safi, Morocco

4Higher Institute of Nursing and Health Techniques (ISPITS), Ministry of health and social protection, Ouarzazate, Morocco

5Laboratory of Data Science for Sustainable Earth Laboratory (Data4Earth), Faculty of Sciences and Techniques, Beni Mellal

**SCORPIONISM AND CLIMATE VULNERABILITY IN THE OUM ER-RBIA BASIN (MOROCCO)**

**14:30 – 14:40**      ***Maru Zewdu Kassie<sup>1</sup>, Tafese Ashine<sup>1</sup>, Awoke Seyoum Tegegne<sup>2</sup>***

1Department of Statistics, Assosa University, Assosa, Ethiopia

2Department of Statistics, Bahir Dar University, Bahir Dar, Ethiopia

**A HYBRID STATISTICAL AND MACHINE LEARNING APPROACH TO  
UNDERSTAND MODERN CONTRACEPTIVE USE AMONG  
REPRODUCTIVE AGE WOMEN IN ETHIOPIA**

**14:40 – 14:50**

***Ezra. O., Awoleye, Simeon. D. Y., Alfred,  
Jonathan. A., Akinwale***

Department of Agricultural Extension and Communication Technology, Federal  
University of Technology, Akure, Ondo State, Nigeria

**INFORMATION NEEDS OF RURAL HOUSEHOLDS ON FAMILY  
PLANNING IN ONDO STATE, NIGERIA**

13:30 – 15:00

**Technical Session –2**

**Session (B): Soil Biology & Agricultural Sustainability & Protection of Ecosystems**

**Chair of the Session:**

**B. S. PANWAR**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534836228?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534836228?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

13:30 – 13:40

**K. K. Bhardwaj**

Department of Soil Science, CCS Haryana Agricultural University, Hisar, India

**THE ADULTRATION OF NATURE: ANTHROPOGENIC SOILS**

13:40 – 13:50

**Karim Ennouri**

University of Sfax, Sfax, Tunisia

**IMPROVING FARMING PRACTICES WITH SATELLITE IMAGES: EFFECTS ON CROP HEALTH AND FARMING METHODS**

13:50 – 14:00

**Mohammed Er-rajy**

LIMAS Laboratory, Department of Chemistry, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco.

**AN IN-DEPTH STUDY OF INDOLONE DERIVATIVES AS POTENTIAL LUNG CANCER TREATMENT: MOLECULAR DOCKING, PHARMACOKINETICS, AND MOLECULAR DYNAMICS SIMULATIONS**

14:00 – 14:10

**Zakaria Fouad Fawzy<sup>1</sup>, Shaymaa I. Shedeed<sup>2</sup>**

<sup>1</sup>Vegetable Research Dept., Agricultural and Biological Research Institute, National Research Cairo, Egypt

<sup>2</sup>Plant Nutrition Dept., Agricultural and Biological Research Institute, National Research Centre, Cairo, Egypt

**CARBON SMART AGRICULTURE FOR FARMING SUSTAINABILITY**

14:10 – 14:20

**Ranya Achetouane**

Department of Biology, Faculty of Science, Mohammed 5 university, Rabat, Morocco

**COMPARATIVE ANALYSIS OF CEREAL SUSCEPTIBILITY AND DAMAGE SEVERITY INDUCED BY RUSSIAN WHEAT APHID**

**(DIURAPHIS NOXIA): PHYSIOLOGICAL RESPONSES AND POPULATION DYNAMICS**

**14:20 – 14:30**            ***Birara Abraham Desalegn, Abdul A.S. Katakweba, Alfian A. Rija***

Department of Biology, Mekelle University, Ethiopia, Department of Wildlife Management, Sokoine University of Agriculture, Morogoro, Tanzania

**SPATIOTEMPORAL DYNAMICS OF A SMALL MAMMAL COMMUNITY IN THE AFROALPINE ECOSYSTEM OF THE GUASSA MENZ AREA, ETHIOPIA: HABITAT STRUCTURE OVER SEASONAL CLIMATE**

**14:30 – 14:40**            ***Birara Abraham Desalegn, Abdul A.S. Katakweba, Bram Vanden Broecke, Wim De Kesel, Alfian. A. Rija***

Department of Wildlife Management, Sokoine University of Agriculture, Morogoro, Tanzania, Mekelle University, Ethiopia

**HABITAT AND HOST TRAITS SHAPE PARASITE COMMUNITIES IN AN ETHIOPIAN MONTANE RODENT**

**14:40 – 14:50**            ***Weronika Pieszko<sup>1</sup>, Karol Czenczek<sup>1</sup>, Maria Sanecka<sup>1</sup>, Paulina Babiarczy<sup>1</sup>, Agata Fqfara<sup>1</sup>, Anna Górkaz<sup>2</sup>***

<sup>1</sup>Scientific Club „BIO-TECH”, Faculty of Biotechnology, Collegium Medicum, University of Rzeszow, Rzeszow, Poland

<sup>2</sup>Faculty of Biotechnology, Collegium Medicum, University of Rzeszow, Poland

**EVALUATION OF HEAVY METAL ACCUMULATION IN SOILS AND CONIFEROUS TREES IN GREEN URBAN AREAS OF RZESZÓW CITY**

**14:50 – 15:00**            ***Karolina Pesei***

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

**POSSIBILITIES OF CHEMICAL-FREE FARMING**

13:30 – 14:40

**Technical Session –3/1**

**Session (C): Sustainability of Air Pollution, Water, Sediments & Waste Management**

**Chair of the Session:**

**Abbas Ali GHEZELSOFLOO**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534885751?context=%7b%22id%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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534885751?context=%7b%22id%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

13:30 – 13:40

**Surendra Kumar Yadav**

Environmental Conservation, Institute of SEHAT, New Delhi, India.

**EFFECTIVE PLASTIC WASTE MANAGEMENT PLAN USING SPATIAL TECHNOLOGY BASED ENVIRONMENTAL MODELLING FOR DELHI NCR REGION**

13:40 – 13:50

**Sumaya Binta Ashraf**

National Institute of Technology Durgapur, Durgapur, India

**HIDDEN MICROPLASTICS IN SUSTAINABLE LIVING: A REVIEW OF LEACHING RISKS FROM FOOD-CONTACT MATERIALS AND THEIR ENVIRONMENTAL HEALTH IMPLICATIONS**

13:50 – 14:00

**Sumaya Binta Ashraf**

National Institute of Technology Durgapur, Durgapur, India

**GREEN ADSORPTION STRATEGIES FOR REMOVING PPCPS FROM WASTEWATER: ADVANCES IN BIO-BASED AND CARBONACEOUS MATERIALS**

14:00 – 14:10

**Carlos Mestanza-Ramón, Juan Hidalgo**

Escuela Superior Politécnica de Chimborazo – Sede Orrellana, El Coca, Ecuador

**SQUARE WAVE ANODIC STRIPPING VOLTAMMETRIC METHOD FOR THALLIUM IN COAL ASH USING A GOLD ELECTRODE MODIFIED WITH A TITANIUM(IV)-OXO-CARBOXYLATE CLUSTER-CHITOSAN COMPOSITE**

**14:10 – 14:20**

***Paweł Świsłowski, Małgorzata Rajfur***

Institute of Biology, Faculty of Natural Sciences and Technology, University of Opole, Opole, Poland

**THE USE OF MOSSES IN ACTIVE BIOMONITORING IN URBAN AREAS**

**14:20 – 14:30**

***Juan Santiago Hidalgo<sup>1,4</sup>, Ildiko Galambosi<sup>1</sup>, Javier Ernesto Vilasò-Cadrez<sup>2</sup>, Iván A. Reyes-Domínguez<sup>2</sup>, Graziella Liana Turdean<sup>3</sup>, Luis Carlos Hidalgo<sup>4</sup>, Carmen Ioana Fort<sup>3</sup>***

<sup>1</sup>University of Pannonia, Nagykanizsa, Hungary.

<sup>2</sup>Autonomous University of San Luis Potosí, San Luis Potosí, Mexico.

<sup>3</sup>“Babes-Bolyai” University, Cluj-Napoca, Romania.

<sup>4</sup>Escuela Superior Politécnica de Chimborazo, Riobamba, Ecuador.

**ELECTROCHEMICAL DETERMINATION OF HAZARDOUS 4-NITROPHENOL AT A GREEN-SYNTHEZED BISMUTH SULPHIDE EMBEDDED GRAPHITIC CARBON NITRIDE NANOCOMPOSITE-BASED ELECTRODE**

**14:30 – 14:40**

***Imane Haydari<sup>1,2</sup>, Jihen Elleuch<sup>3</sup>, Naaila Ouazzani<sup>1,2</sup>, Faissal Azizi<sup>1,2</sup>***

<sup>1</sup>Laboratory of Water Sciences, Microbial Biotechnologies, and Natural Resources Sustainability, Faculty of Sciences Semlalia, Cadi Ayyad University, 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 NANOPARTICLES FOR PHENOL REMOVAL FROM OLIVE MILL WASTEWATER**

14:40 – 15:50

## **Technical Session –3/2**

### **Session (C): Sustainability of Air Pollution, Water, Sediments & Waste Management**

**Chair of the Session:**

**Surendra Kumar YADAV**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534885751?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534885751?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

14:40 – 14:50

**Béla Varga**

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

#### **DEVELOPMENT OF PRINT-IN-PLACE 3D MICROFLUIDIC BIOSENSORS WITH ENZYME-BASED DETECTION FOR ORGANIC POLLUTANT MONITORING**

14:50 – 15:00

**Yanina Romero<sup>1</sup>, Janette Bessembinder<sup>2</sup>, Nick van de Giesen<sup>3</sup>, Frans van de Ven<sup>3</sup>**

<sup>1</sup>Beuningen, The Netherlands

<sup>2</sup>Climate Services, Royal Netherlands Meteorological Institute (KNMI), De Bilt, The Netherlands

<sup>3</sup>Water Management of the Faculty of Civil Engineering and Geosciences, Delft University of Technology (TU Delft), Delft, The Netherlands

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

15:00 – 15:10

**Iskander Ben Rjiba, Georgina Tóth-Nagy, Viktor Sebestyén**

University of Pannonia, Faculty of Engineering, Sustainable Solutions Research Laboratory, Veszprém, Hungary,

#### **INTEGRATING SPATIAL INDICATORS FOR CLIMATE ACTION PLANNING**

15:10 – 15:20

**Nouara Abderraouf, Boudjoghra Wail, Chellat Smaine**

Geology and Environment Laboratory. Department of Geology, Constantine 1 University, Constantine, Algeria

**POLLUTION WITH TRACE METAL ELEMENTS AND PHOSPHATES IN THE WADI BOUMERZOUG BASIN (NORTH-EAST ALGERIA): ENVIRONMENTAL ISSUES AND PROSPECTS FOR DEPOLLUTION**

**15:20 – 15:30**      *Leila Azaryouh, Amine Miftah, Zineb Kassab, Khalifa El Harfi Silvia Roman Suero, Mounir El Achaby, Adil Aboulkas*

Polydisciplinary Faculty, University Sultan Moulay Slimane, Beni Mellal, Morocco

**TRANSFORMING OLIVE MILL RESIDUES INTO FUNCTIONAL HYDROCHAR: A SUSTAINABLE PATHWAY FOR WASTE-TO-WATER TREATMENT**

**15:30 – 15:40**      *Tamás Kloknicer<sup>1,2</sup>, Dániel Benjámín Sándor<sup>1</sup>, Anita Szabó<sup>1,2</sup>*

<sup>1</sup>Inno-Water Inc, Budapest, Hungary

<sup>2</sup>Óbuda University, Doctoral School of Material Sciences and technologies, Budapest, Hungary

**DETERMINING INICIAL DEGRADATION OF COLD POLYMERISED PVA BEADS DURING WASTEWATER TREATMENT APPLICATIONS**

**15:40 – 15:50**      *Tamás Fazekas<sup>1,2</sup>, Tamás Kloknicer<sup>1,2</sup>, Tamás Faragó<sup>1</sup>, Anita Szabó<sup>1</sup>, Dániel Sándor Benjámín<sup>1</sup>*

<sup>1</sup>Inno-Water Inc, Budapest, Hungary

<sup>2</sup>Óbuda University, Environmental Engineering and Natural Sciences Institute, Budapest, Hungary

**APPLICATION OF POLLUTANT REMOVAL AND PRODUCTION WELL REMEDIATION METHODS IN NUMERICAL MODELING ENVIROMENT**

13:30 – 14:50

**Technical Session –4/1**

**Session (D): Sustainability of Circular (Bio)Economy Strategy of Recycling,  
& Energy**

**Chair of the Session:**

**Sándor J. ZSARNÓCZAI**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534918022?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534918022?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

13:30 – 13:40

**Usha Lakshmi Satuvalli, Anuradha R.2**

<sup>1</sup>School of Business and Management, Christ Deemed to be University, Bengaluru, India.

<sup>2</sup>School of Business and Management, Christ Deemed to be University, Bengaluru, India.

**PERSONAL FINANCIAL PLANNING AND SUSTAINABLE BUSINESS PRACTICES AMONG MICROENTREPRENEURS**

13:40 – 13:50

**M. Farhaoui, C. Slimani**

Law School, Sidi Mohamed Ben Abdellah University, ESSOR Lab, Fes, Morocco

**EFFECTS OF SUSTAINABILITY AND CLIMATE RESILIENCE ON HOUSING VALUATION**

13:50 – 14:00

**Mengistu Amare, Antehunegn Birilie, Gedefaw Wubet, Walelgn Beadgie**

Department of Agricultural Economics, Faculty of Agriculture and Environmental Science, Debre Tabor University, Debre Tabor, Ethiopia

**CLEAN ENERGY, BRIGHTER FUTURES: ASSESSING SOLAR HOME SYSTEMS' IMPACT ON RURAL LIVELIHOODS AND RESILIENCE IN ETHIOPIA**

14:00 – 14:10

**Mustafa Hathal, Viola Somogyi**

Sustainability Solutions Research Lab, Faculty of Engineering, University of Pannonia, Veszprém, Hungary

**EVALUATING NATURE-BASED SOLUTIONS FOR PHOSPHORUS AND NITRATE REMOVAL IN SEMI-ARID RIVER SYSTEMS: A CASE STUDY OF THE TIGRIS RIVER, IRAQ**

**14:10 – 14:20**

***Ikrame Ayouch<sup>1</sup>, Said Sair<sup>2</sup>, Ilham Jioui, Younes  
Essamlali<sup>3</sup>, Othmane Amadine<sup>3</sup>, Mohamed Zahouily<sup>1,4</sup>***

<sup>1</sup>Fert-Explorer, College for Sustainable Agriculture and Environmental Sciences, Mohammed VI Polytechnic University, Moulay Rachid, Ben Guerir, Morocco

<sup>2</sup>Laboratory of Inorganic Materials for Sustainable Energy Technologies, Mohammed VI Polytechnic University, Moulay Rachid, Ben Guerir, Morocco

<sup>3</sup>Natural Resources Valorization Center, Moroccan Foundation for Advanced Science, Innovation and Research, Mohammed VI Polytechnic University, Ben Guerir, Morocco

<sup>4</sup>Laboratory of Materials, Catalysis & Valorization of Natural Resources, Faculty of Science and Technology Mohammedia, University Hassan II Casablanca, Morocco

**OXALIC ACID-MEDIATED LEACHING OF PHOSPHATE ROCK FOR  
CADMIUM-FREE PHOSPHORIC ACID: A SUSTAINABLE AND  
CIRCULAR ENGINEERING APPROACH**

**14:20 – 14:30**

***Ambelu Endalew Gessesse***

Department of Construction Technology and Management in University of Gondar, Ethiopia

**CHALLENGES CONFRONTING CONSTRUCTION PROJECT  
MANAGEMENT SYSTEM; THE CASE OF GONDAR CITY**

**14:30 – 14:40**

***Seid Ahmed***

Bahir Dar University, Bahir Dar, Ethiopia

**CONSUMER PERCEPTION AND BUYING BEHAVIOR TOWARD  
SUSTAINABLE LEATHER AND FOOTWEAR PRODUCTS: AN  
EMPIRICAL STUDY IN CASE OF BAHIR DAR CITY**

**14:40 – 14:50**

***Olusegun Michael Ogundele***

Institute of Applied Economics, University of Pannonia, University Centre for Circular Economy, Nagykanizsa

**TALKING CIRCULAR ECONOMY IN HUNGARY: LESSONS FROM  
CITIZEN SCIENCE**

14:50 – 16:00

**Technical Session –4/2**

**Session (D): Sustainability of Circular (Bio)Economy Strategy of Recycling,  
& Energy**

**Chair of the Session:**

**Giuseppe CIABURRO**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534918022?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534918022?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

14:50 – 15:00

**Olusegun Michael Ogundele**

Institute of Applied Economics, University of Pannonia, University Centre for Circular Economy, Nagykanizsa

**HOW THE DEPOSIT RETURN SCHEME (DRS) CHANGES HUNGARIAN  
ATTITUDES ON PLASTIC WASTE RECYCLING**

15:00 – 15:10

**Niklas Parlindungan Simorangkir**

University of Pannonia, Nagykanizsa, Hungary

**A PROPOSED CIRCULAR ECONOMIC STRATEGY FOR SUSTAINABLE  
FUTURE CORPORATE PURPOSE: A QUALITATIVE GAME THEORY  
APPROACH**

15:10 – 15:20

**György Neszmélyi, Sándor J. Zsarnóczyai**

<sup>1</sup>Milton Friedman University, Department of International and Political Studies, Budapest, Hungary

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

**ENERGY EFFECTIVENESS AND EMPLOYMENT ISSUES IN EU-27 IN  
2020S**

15:20 – 15:30

**György Neszmélyi, Sándor J. Zsarnóczyai**

<sup>1</sup>Milton Friedman University, Department of International and Political Studies, Budapest, Hungary

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

**ECONOMICS AND MANAGEMENT OF FOOD SAFETY**

**15:30 – 15:40**                    ***Ludmila Paola Pereira Iwasaki***

Faculty of Business and Economics, University of Pannonia, Nagykanizsa, Hungary

**RENEWABLE ENERGY SOURCES IN CIRCULAR AND SUSTAINABLE URBAN DEVELOPMENT**

**15:40 – 15:50**                    ***Usha Lakshmi Satuvalli, Anuradha R.***

School of Business and Management, Christ Deemed to be University, Bengaluru, India

**PERSONAL FINANCIAL PLANNING AND SUSTAINABLE BUSINESS PRACTICES AMONG MICROENTREPRENEURS**

**15:50 – 16:00**                    ***Zahira Hichame, Ismail Adoumaz, Mohammed Lahcini, Zineb Kassab, Taha El Assimi, Mounir El Achaby***

Cadi Ayyad University, Beni Mellal, Morocco

**SHELF-LIFE ENHANCING FOOD PACKAGING SYSTEMS THROUGH INNOVATIVE CIRCULAR SOLUTIONS**

13:30 – 15:00

## **Technical Session –5**

**Session (E): Applied & Natural Sciences & Light Industry & Eco-design**

**Chair of the Session:**

**Vera ALPÁR**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534960220?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534960220?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

13:30 – 13:40

**Gagan Preet Kour Bali**

Department of Biosciences-UIBT, Chandigarh University, Mohali, Punjab, India

**SHEDDING LIGHT ON DARKNESS: CONSEQUENCES OF ARTIFICIAL LIGHT AT NIGHT ON MOTHS**

13:40 – 13:50

**Ashok Pokhrel**

Shree Dhatiwang Secondary School, Panini Rural Municipality, Arghakhanchi, Nepal

**APPLICATIONS OF BAYESIAN METHODS IN EDUCATION OR SOCIAL INEQUALITIES IN DEVELOPING COUNTRIES**

13:50 – 14:00

**Fida Ur Rehman, Sheema Bibi, Izhar Ullah**

Department of Zoology, Hazara University Sub Campus Battagram, Pakistan

**DIVERSITY AND DISTRIBUTION OF SCORPION (ARACHNIDA) IN DISTRICT BATTAGRAM KP IN NORTHERN MOUNTAIN RANGE OF PAKISTAN**

14:00 – 14:10

**Olena Mitryasova, Viktor Smyrnov, Andrii Mats, Oleksandra Kovalska**

Petro Mohyla Black Sea National University, Mykolaiv, Ukraine

**HYDROCHEMICAL STATUS DETERIORATION AND WATER RESILIENCE CHALLENGES IN THE SOUTHERN BUH ESTUARY**

14:10 – 14:20

**Olena Mitryasova, Viktor Smyrnov, Andrii Mats, Oleksandra Kovalska**

Petro Mohyla Black Sea National University, Mykolaiv, Ukraine

**HYDROCHEMICAL STATUS DETERIORATION AND WATER  
RESILIENCE CHALLENGES IN THE SOUTHERN BUH ESTUARY**

**14:20 – 14:30**      **Meseret Aregahegn Aschale<sup>1,2</sup>, Eyasu Abate<sup>2</sup>, Nigat Melak<sup>2</sup>, Kokobe Alemayehu<sup>2</sup>, Simegn Deguz, Mamaru Genet<sup>2</sup>, Bisrat Kebede<sup>2</sup>, Abera Driba<sup>3</sup>**

<sup>1</sup>Addis Ababa University, College of Natural and Computational Science: Center for Environmental Science, Addis Ababa, Ethiopia

<sup>2</sup>Mineral Industry Development Institute, Addis Ababa, Ethiopia

<sup>3</sup>Ministry of Mines, Addis Ababa, Ethiopia

**SILICA SAND PRODUCTION POTENTIAL, QUALITY, AND MARKET  
ANALYSIS CASE STUDY IN THE KELLA LOCALITY, SOUTH SODO  
DISTRICT, ETHIOPIA**

**14:30 – 14:40**      **Narimane Marwa Boukezzoula<sup>1</sup>, Mehdi Boutebdja<sup>1</sup>, Ahlem, Linda Boulkedid<sup>1</sup>, Tim Gruene<sup>2</sup>**

<sup>1</sup>Unité de Recherche de Chimie de l'Environnement et Moléculaire Structurale, Département de chimie, Université frère Mentouri Constantine 1, Algeria

<sup>2</sup>Core Facility Crystal Structure Analysis, Faculty of Chemistry, University of Vienna, Austria

**NEW Mn(II) COMPLEXE OF SALEN SCHIFF BASE LIGAND SYNTHESIS,  
CHARACTERIZATION AND CRYSTALLOGRAPHIC STRUCTURE**

**14:40 – 14:50**      **Zoubir Belhimer, Azzedine Bouzenoune, Abdelhakim Bouchair**

Geological Engineering Laboratory (LGG), University of Jijel, Jijel, Algeria

**MINERALIZED TRIASSIC OPHITES OF EASTERN BABORS (TELLIAN  
DOMAIN, NORTHEASTERN ALGERIA): A CASE STUDY OF JEBEL  
TAZEGUEZAOUT OPHITES**

**14:50 – 15:00**      **Slami Rafika**

Department of Geology, Faculty of Earth sciences and Universe Institute, University of Batna 2, Batna, Algeria

**THE CENOMANIAN MICROFAUNAL ASSEMBLAGE OFFERS A  
WINDOW INTO PALEOENVIRONMENTAL AND  
PALEOBIOGEOGRAPHICAL REFLECTIONS**

**15:00 – 16:15**

## **Poster Session**

**Chair of the Session:**

**Hosam BAYOUMI HAMUDA**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763534782394?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

**15:00 – 15:05**

**R. B. Asamovi<sup>1</sup>, B. S. Panwar<sup>2</sup>**

<sup>1</sup>Department of Global Business Environment International Agriculture University, Tashkent, Uzbekistan

<sup>2</sup>CCS, Haryana Agricultural University, Hisar, India

### **GLOBALIZATION AND INDIAN BUSINESS: PROSPECTIVE AND NAVIGATION**

**15:05 – 15:10**

**Ayushi Jaini<sup>1</sup>, D.C Dimri<sup>1</sup>, Shweta Uniyali<sup>1</sup>, Rajender Kumar<sup>1</sup>, Visha Jain<sup>2</sup>**

<sup>1</sup>Department of Horticulture, College of Agriculture, GBPUA&T, Pantnagar, Uttarakhand, India

<sup>2</sup>Department of Forestry, Chaudhary Charan Singh Haryana Agricultural University, Hisar, Haryana, India

### **COMPARATIVE ANALYSIS OF GERMINATION ATTRIBUTES IN LOW-CHILL AND HIGH-CHILL PEACH**

**15:10 – 15:15**

**Negar Mosallanejadi<sup>1</sup>, Larisa Sabirovna Yakubova<sup>2</sup>, S. Safarzadeh<sup>1</sup>, B. S. Panwar<sup>3</sup>**

<sup>1</sup>Department of Soil Science School of Agriculture, Shiraz University, Shiraz, Iran

<sup>2</sup>Department of Industrial Engineering, Karshi State University

<sup>3</sup>Department of Soil Science, CCS Haryana Agricultural University, Hiar, India

### **THE BIOLOGICAL DIAGNOSTICS OF SOILS**

**15:15 – 15:20**

**Ayushi Jaini<sup>1</sup>, D. C. Dimri<sup>1</sup>, Shweta Uniyali<sup>1</sup>, Rajender Kumar<sup>1</sup>, Visha Jain<sup>2</sup>**

<sup>1</sup>Department of Horticulture, College of Agriculture, GBPUA&T, Pantnagar, Uttarakhand, India

<sup>2</sup>Department of Forestry, Chaudhary Charan Singh Haryana Agricultural University, Hisar, Haryana, India

## COMPARATIVE ANALYSIS OF GERMINATION ATTRIBUTES IN LOW-CHILL AND HIGH-CHILL PEACH

**15:20 – 15:25**                      **15:10 – 15:15**    *Negar Mosallanejadi, Larisa Sabirovna Yakubova<sup>2</sup>, S. Safarzadeh<sup>1</sup>, B. S. Panwar<sup>3</sup>*

<sup>1</sup>Department of Soil Science School of Agriculture, Shiraz University, Shiraz, Iran

<sup>2</sup>Department of Industrial Engineering, Karshi State University

<sup>3</sup>Department of Soil Science, CCS Haryana Agricultural University, Hiar, India

## THE BIOLOGICAL DIAGNOSTICS OF SOILS

**15:25 – 15:30**                      *Visha Jain<sup>1</sup>, Chandra Bhushan<sup>1</sup>, Ayushi Jain<sup>2</sup>, Sunil Kumar<sup>3</sup>*

<sup>1</sup>Banaras Hindu University, Varanasi, India

<sup>2</sup>Maharana Pratap University of Agriculture and Technology, Udaipur, India

<sup>3</sup>Chaudhary Charan Singh Haryana Agricultural University, Hisar, India

## EFFECT ON MORPHOLOGY, YIELD AND QUALITY OF MUNGBEAN [VIGNA RADIATA (L.) WILCZEK] AND FARMERS INCOME THROUGH FOLIAR NUTRITION UNDER GUAVA [PSIDIUM GUAJAVA (L.)] BASED AGRI-HORTI SYSTEM

**15:30 – 15:35**                      *Hamdi Chaouk*

Lebanese University, El-Hadat, Lebanon

American University of the Middle East, Egalia, Kuwait

## MACHINE LEARNING TO ANALYSE MEMBRANE SEPARATION POTENTIAL

**15:35 – 15:40**                      *Anna Górká, Julia Kiper*

Faculty of Biotechnology, University of Rzeszow, Rzeszow, Poland

## ENVIRONMENTAL VARIABILITY IN THE ELEMENTAL COMPOSITION OF ADAPTOGENIC PLANTS: IMPLICATIONS FOR SUSTAINABLE CULTIVATION AND SAFETY ASSESSMENT

**15:40 – 15:45**                      **15:10 – 15:15**    *Fouadi AlZaatiti, Jalal Halwaniz, Mohamed R. Soliman<sup>1</sup>*

<sup>1</sup>Department of Civil and Environmental Engineering, Faculty of Engineering, Beirut Arab University, Beirut, Lebanon

<sup>2</sup>Water and Environment Sciences Laboratory, Lebanese University, Tripoli, Lebanon

<sup>3</sup>Faculty of Engineering, Alexandria University, Alexandria, Egypt

**ASSESSING CLIMATE CHANGE IMPACTS ON FLOODING AND WATER RESOURCES IN ABOU ALI RIVER**

**15:45 – 15:50**                    ***Deresse Hunde<sup>1</sup>, Wasu Mohammed<sup>2</sup>, Zelalem Bekeko<sup>2</sup>, Abush Tesfaye<sup>3</sup>***

<sup>1</sup>Ethiopian Institutes of Agricultural Research, Addis Ababa, Ethiopia

<sup>2</sup>College of Agriculture and Environmental Sciences, Haramaya University, Dire Dawa, Ethiopia

<sup>3</sup>International Institute of Tropical Agriculture, Ibadan, Nigeria

**GENOTYPE BY ENVIRONMENT INTERACTION AND GRAIN YIELD STABILITY OF SOYBEAN [GLYCINE MAX (L.) MERRILL] GENOTYPES IN ETHIOPIA**

**15:50 – 15:55**                    ***Wafa Benzerara***

Department of Electronic, Faculty of Science and Technology, University of Batna<sup>2</sup>, Khanchela, Batna, Algeria

**THE EFFECT OF ELECTROMAGNETIC WAVES ON THE HUMAN BODY**

**15:55 – 16:00**                    ***Louiza Yousnadj, Youcef Brahim Elhadj, Moud Fatma Zohra, Benabbas Leyla***

Laboratory: Mobilization and Management of Water Resources, Department of Geology, Institute of Earth and Universe Sciences, University of Batna 2 – Algeria

**TYPES OF ROCKS AND THEIR ROLE IN ENVIRONMENTAL PROTECTION**

**16:00 – 16:05**                    ***Irinislimane Kenza***

Mechanical engineering department, M'Hamed Bougara University, Boumerdes, Algeria

**SYSTEMATIC RISK ASSESSMENT METHODOLOGY**

**16:05 – 16:10**                    ***Csaba Centeri, Zsolt Biró***

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

**EFFECT OF EUROPEAN MOLE ON SOIL PROPERTIES NEAR  
IPOLYTARNÓC, HUNGARY**

**16:10 – 16:15**

***Asmaa Haj-Khlifa<sup>1</sup>, Halima Gamrani<sup>1</sup>, Moulay Mustapha  
Bouyatas<sup>12</sup>***

<sup>1</sup>Neuroscience, Pharmacology and Environment Unit, Faculty of Sciences, Semlalia,  
Laboratory of Clinical, Experimental and Environmental Neurosciences, Faculty of  
Medicine and Pharmacy, Cadi Ayyad University, Marrakech, Morocco

<sup>2</sup>Polydisciplinary Faculty of Safi, Department of Biology, Cadi Ayyad University, Sidi  
Bouزيد, Safi, Morocco

**THE PROTECTIVE EFFECT OF ONONIS NATRIX AGAINST PB-  
INDUCED SENSORIMOTOR DEFICITS IN THE OFFSPRING OF MICE  
DURING GESTATION AND LACTATION**

**21<sup>st</sup> of November 2025 (Friday)**

**I. Session:**

**09:30 – 10:15**

**Special Session (Discussions)**

**Publications and presentations are not necessary**

**Chair of the Session:**

**Hosam BAYOUMI HAMUDA**

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763535011530?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763535011530?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

**Olexandr Botsulai, Olena Golovinaz**

<sup>1</sup>Institute of Agroecology and Environmental Management of NAAS, Kyiv, Ukraine

<sup>2</sup>Institute of Agroecology and Natural Resources, Kyiv, Ukraine

**SCIENTIFIC PRINCIPLES OF ENVIRONMENTAL IMPACT  
ASSESSMENT IN FOREST ECOSYSTEMS IN THE CONTEXT OF  
UKRAINE'S EUROPEAN INTEGRATION**

**Virág Tóthné Némethy**

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

**MACHINE LEARNING IN TREND FORECASTING: AI AS A TOOL TO  
REDUCE OVERPRODUCTION**

**Farhat Siddiqui, Omaisaj Ejaz, Iqra Ajaz, Sana Baig, Laiba Khalid**

Department of Biomedical Engineering, Ziauddin Univeristy, Karachi, Pakistan

**AFLATOXIN CONTAMINATION IN SPICES: ENVIRONMENTAL  
HEALTH AND SUSTAINABILITY CHALLENGES UNDER CLIMATE  
CHANGE**

**Javad Hasanzadeh, Ali Pirouzi**

Faculty of Chemical Engineering, Mazandaran University of Science and Technology, Behshahr, Iran

**ELECTROCOAGULATION TREATMENT OF STRONG WASTEWATER:  
OPTIMIZATION OF PHOSPHATE AND COD REMOVAL USING  
RESPONSE SURFACE METHODOLOGY (RSM)**

***Neha Singh Raghuvanshi***

ABES Engineering College, Ghaziabad, Uttar Pradesh, India

**EXTINCTION AS EVOLUTION: RETHINKING LOSS IN  
CONSERVATION BIOLOGY**

***Neha Singh Raghuvanshi***

ABES Engineering College, Ghaziabad, Uttar Pradesh, India

**EXTINCTION AS EVOLUTION: RETHINKING LOSS IN  
CONSERVATION BIOLOGY**

***Vikas Kumar<sup>1</sup>, Raghvendra Kumar Kushwaha<sup>2</sup>, Harsh Jain<sup>3</sup>***

<sup>1</sup>Department of Entomology, Banda University of Agriculture & Technology, Banda, (Uttar Pradesh), India

<sup>2</sup>Department of Soil Chemistry, Banda University of Agriculture & Technology, Banda, (Uttar Pradesh), India

<sup>3</sup>Department of Genetics & Plant Breeding, Banda University of Agriculture & Technology, Banda, (Uttar Pradesh), India

**INTEGRATING REGENERATIVE AGRICULTURE AND BIODIVERSITY  
CONSERVATION: A SYSTEMS APPROACH TO SUSTAINABLE FOOD  
PRODUCTION AND ECOSYSTEM RESILIENCE**

***Raghvendra Kumar Kushwaha<sup>1</sup>, Drishty Katiyar<sup>2</sup>***

<sup>1</sup>Department of Soil Science & Agricultural Chemistry, Banda University of Agriculture and Technology, Banda, India

<sup>2</sup>Department of Soil Science & Agricultural Chemistry, Major S.D. Singh University, Fategarh, Farrukhabad, India

**LEGISLATION AND POLICY GAPS IN SOIL POLLUTION  
MANAGEMENT: A GLOBAL PERSPECTIVE**

***Raghvendra Kumar Kushwaha<sup>1</sup>, Drishty Katiyar<sup>2</sup>***

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**LEGISLATION AND POLICY GAPS IN SOIL POLLUTION  
MANAGEMENT: A GLOBAL PERSPECTIVE**

***Neha Singh Raghuvanshi***

ABES Engineering College, Ghaziabad, Uttar Pradesh, India

**EXTINCTION AS EVOLUTION: RETHINKING LOSS IN  
CONSERVATION BIOLOGY**

***Raghvendra Kumar Kushwaha<sup>1</sup>, Drishty Katiyar<sup>2</sup>***

<sup>1</sup>Department of Soil Science & Agricultural Chemistry, Banda University of Agriculture and Technology, Banda, India

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**LEGISLATION AND POLICY GAPS IN SOIL POLLUTION  
MANAGEMENT: A GLOBAL PERSPECTIVE**

***Liliia Havryliuk<sup>1</sup>, Dmytro Gentosh<sup>2</sup>, Olena Bashtaz***

<sup>1</sup>The Institute of Agroecology and Environmental Management of NAAS, Kyiv, Ukraine

<sup>2</sup>National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine

**BIOREGULATION OF PHYTOPATHOGENIC ISOLATE AFTER  
TREATMENT OF BARLEY AND OATS**

***Mariya Khmelyarchuk<sup>1,2</sup>, Oksana Bondarenko<sup>1,3</sup>***

<sup>1</sup>Department of Analytical and International Economics, Ivan Franko National University of Lviv, Lviv, Ukraine

<sup>2</sup>Department of Enterprise Economics, Investments and Insurance, Poznan University of Technology, Poznań, Poland

<sup>3</sup>Joint-Stock Company “National Power Company Ukrenergo”, Kyiv, Ukraine

**DETERMINANTS OF THE DEVELOPMENT OF “GREEN” ENERGY IN  
UKRAINE**

***Halyna Matusevych, Denys Glukhovets***

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

**SPECIES COMPOSITION OF MAJOR INSECT PESTS IN THE MAIZE  
AGROCENOSIS OF THE RIGHT-BANK FOREST-STEPPE REGION OF  
UKRAINE**

***Ravshan (Bakhodirovich) Asamov<sup>1</sup>, B. S. Panwar<sup>2</sup>***

<sup>1</sup>Centre for Training of Staff of the Ministry of Poverty Reduction and Employment of the Republic of Uzbekistan, Tashkent, Uzbekistan

<sup>2</sup>CCS, Haryana Agricultural University, Hisar, India

**GLOBALIZATION AND BUSINESS: PROSPECTIVE AND NAVIGATION**

***Csaba Centeri<sup>1</sup>, Zita Zsembery<sup>2</sup>, Zsolt Biró<sup>1</sup>***

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

<sup>2</sup>Herman Otto Institute, Gödöllő, Hungary

**EFFECT OF EUROPEAN MOLE ON SOIL PROPERTIES NEAR  
GALGAGUTA, HUNGARY**

***Abderrahim Bezai, Nafaa Brinis, Azzeddine Reghais***

Department of Geology, Faculty of Earth sciences and universe institute, University of Batna 02, Batna, Algeria

**HYDROCHEMICAL EVOLUTION OF GROUNDWATER IN THE  
REMILA PLAIN, NORTHEAST KHENCHELA, ALGERIA**

***Oksana Hnativ***

Department of Civil Law and Procedure, Law Faculty, Ivan Franko National University of Lviv, Lviv, Ukraine

**HUMAN RESOURCE MANAGEMENT UNDER MARTIAL LAW**

***Benslim Mahmoudamdjed***

Faculty of Nature and Life and Earth Sciences and Universes, University 8 May 1945, Guelma, Algeria

**PROBLEMS RELATED TO THE MEAT INDUSTRY**

***Benslim Mahmoudamdjed***

Faculty of Nature and Life and Earth Sciences and Universes, University 8 May 1945,  
Guelma, Algeria

### **PROBLEMS RELATED TO THE MEAT INDUSTRY**

***Leyla Benabbas<sup>1</sup>, Tarek Drias<sup>1</sup>, Djaouida Chenaf<sup>2</sup>, Assia Tafrount<sup>1</sup>, Soumia Khanfer<sup>1</sup>, Louiza Yousnadji***

<sup>1</sup>Laboratoire de mobilisation et gestion des ressources en eau « LMGRE »,  
Department of Geology, Faculty of Earth and Space Science, University of Batna  
02, Batna, Algeria

<sup>2</sup>Département de génie civile, collège militaire royal du Canada, Canada

### **CONTAMINATION OF SURFACE WATER IN THE EL MADHER PLAIN (BATNA) WITH TRACE METALS**

***Márton Tóth***

Doctoral School of Architecture, Design, And Technology, Obuda University,  
Budapest, Hungary

### **EXPERIMENTAL BIO-DESIGN: A PRACTICE-BASED RESEARCH ON SUSTAINABLE MATERIAL DEVELOPMENT**

***Danylo Humennyi, Iryna Beznosko, Tetyana Gorgan, Liudmyla Tymoshenko***

Institute of Agroecology and Environmental Management of National Academy of  
Agrarian Sciences of Ukraine, Kyiv, Ukraine

### **STRESS TOLERANCE AND GROWTH IMPROVEMENT OF SOLANUM LYCOPERSICUM L. UNDER THE INFLUENCE OF BIOSTIMULANTS**

***Danylo Humennyi, Iryna Beznosko, Tetyana Gorgan, Liudmyla Tymoshenko***

Institute of Agroecology and Environmental Management of National Academy of  
Agrarian Sciences of Ukraine, Kyiv, Ukraine

### **STRESS TOLERANCE AND GROWTH IMPROVEMENT OF SOLANUM LYCOPERSICUM L. UNDER THE INFLUENCE OF BIOSTIMULANTS**

***Viktoriya Tsvihun, Iryna Gumeniuk, Olena Sherstoboeva***

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

### **THE EVALUATION OF THE PHYTOSANITARY CONDITION OF VEGETABLE CROPS WITH REGARD TO VIRAL AGENTS IN UKRAINIAN AGROECOSYSTEMS**

***Valéria Zsuzsanna Szabó, Csaba Rohoska***

Óbuda University, Ybl Miklós Faculty of Architecture and Civil Engineering,  
Department of Visual Studies, Budapest, Hungary

**ARCHITECTURAL SCALE SHIFT AS A DIMENSION OF  
ENVIRONMENTAL RESPONSIBILITY**

***Adrienn Czárli***

Department of Institute of Economics and Finance, Faculty of Finance and  
Accounting, Budapest Metropolitan University, Budapest, Hungary

**SHARED SERVICE CENTERS AS DRIVERS OF SUSTAINABLE  
ECONOMIC AND INFRASTRUCTURAL TRANSFORMATION**

***Katalin Rusvai, Csaba Centeri, Zsolt Bíróz***

<sup>1</sup>Department of Nature Conservation and Landscape Management, Hungarian University  
of Agriculture and Life Sciences, Gödöllő, Hungary

<sup>2</sup>Department of Wildlife Biology and Management, Institute for Wildlife Management  
and Nature Conservation, Hungarian University of Agriculture and Life Sciences,  
Gödöllő, Hungary

**EXAMINATION OF SOIL DEGRADATION IN WILD BOAR WALLOWES,  
IN GÖDÖLLŐ HILLSIDE, HUNGARY**

***Ketema Alemu Babo; Tamirat Tesfaye***

Bahir Dar University, Ethiopian Institute of Textile and fashion Technology, Bahir  
Dar, Ethiopia

**ENHANCING PERFORMANCE AND DURABILITY SHOES SOLE: THE  
ROLE OF GRAPHENE-ENSET COMPOSITES**

***Victoria Starodub, Yevheniia Tkach***

Institute of agroecology and environmental management, Kyiv, Ukraine

**THE IMPACT OF MILITARY AGGRESSION AND NEW INVASIVE  
PLANT THREATS IN AGROECOSYSTEMS OF UKRAINE**

***Shrouk Algarihi Ebrahim, Metwally Ramadan Kottb, Mona Mahmoud  
Elbous, Sergio de los Santos Villalobos***

Port Said university, Port Said, Egypt

**PLANT GROWTH-PROMOTING FUNGI ASSOCIATED WITH  
DIFFERENT HABITATS IN EGYPT**

***Barkat Malika, Himed Louiza, Kadri Fouzia, Maougal Rim Tinhinan***

SAFIVIA Laboratory, Department of Biotechnology, INATAA, Constantine 1,  
Mentouri brothers University, Algeria

**VALORIZATION OF AGRO-INDUSTRIAL BY-PRODUCT (TOMATO  
PEEL) THROUGH ITS BIOACTIVE COMPOUNDS**

***Olunike Adedoyin Bello***

Department of Biology, Osun State College of Education, Ila-Orangun, Osun State,  
Nigeria

**STRATEGIES FOR SUSTAINABLE DEVELOPMENT AND  
ENVIRONMENTAL PROTECTION ON A GLOBAL SCALE**

***Uzma, Abdul Saboor, Abdul Rahman***

PMAS-ARID Agriculture university, Rawalpindi, Pakistan

**AN ASSESSMENT OF AGRARIAN BONANZA AND ECONOMIC  
POTENTIAL OF HUNZA VALLEY, GB**

## **II. Session:**

**Workshop Special Session:  
10:30 – 11:30  
Environmental Health and Climatic Change**

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

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763535011530?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763535011530?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

Keynote Speaker

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

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

*The discussion will be concentrated on:*

*Environmental sustainability and climate change are inextricably linked, with climate change directly threatening environmental stability and sustainability efforts focusing on both mitigation (reducing emissions) and adaptation (adjusting to new conditions). Key strategies include transitioning to renewable energy, adopting circular economies, conserving ecosystems, and developing resilient infrastructure, all while acknowledging that vulnerable populations and low-income countries require special attention and equitable support.*

### ***III. Session:***

**Continuation of A, B, C, D, E, and Poster sessions  
11:30 – 13:00**

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

**Teams link:** [https://teams.microsoft.com/l/meetup-join/19%3aAY0pKxxcD7\\_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763535011530?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%3aAY0pKxxcD7_D6pLsYeaM-gYxU5ITeYkDM1YOKLBbPPE1%40thread.tacv2/1763535011530?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

***Invited Speaker:***

***Angelique Larose Vajda***

Semmelweis University, Department of Pharmacology and Pharmacotherapy, Budapest, Hungary

**CONSERVATION OF BIODIVERSITY: RESTORATION OF NATIVE FOREST**

**13:30**

***Closing Ceremony***