Scientific Programme of the 17th ICEEE-2026 Online International Anniversary Conference

November 19 - 20, 2026

Host Place: Obuda University

Budapest – Hungary

Theme:

"Global Environmental Development & Sustainability: Research, Engineering & Management"

with

Workshop Special Session:

"Environmental Health & Climatic Change"

The organizing committee and the presidency of ICEEE as well as the Obuda University have an honour and a pleasure to your participate on the

17th ICEEE-2026

Online International Anniversary Conference

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"Global Environmental Development & Sustainability: Research, Engineering & Management"

with

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"Environmental Health & Climatic Change"

The 17th ICEEE-2026 International Conference 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

- *Prof. Dr. Hosam BAYOUMI HAMUDA*

  President, International Council of Environmental Engineering Education

  Chairman of the Conference

- *Dr. Krisztina Demény*

  Deputy Dean of Education

- *Dr. Tamás Csiszér*

  Deputy Dean for Research

- *Dr. Rita BODÁNÉ-KENDROVICS*

  Director, Institute of Environmental Engineering & Natural Sciences

- *Dr. Edit CSANÁK*

  Director of the Product Design Institute



Organizers of the Conference

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

Dear Academics and Researchers,
Dear Friend!

Sustainable development can satisfy today's needs without endangering the capacity of future generations. It comprises three basic elements that must complement one another: environmental, economic and social sustainability. Accelerated urbanisation has resulted in the deterioration of the environment of cities and loss of quality of life. Energy-saving and eco-friendly building designs have become an important part of modern development.

- *The ICEEE-2026 Conference is organised in the framework of the Hungarian Scientific Season (Hungarian Scientific Festival).*

It is our honour and the pleasure to thank your participation in the 17th ICEEE-2026 Online International Annual Conference with the Theme: "Global Environmental Development & Sustainability: Research, Engineering & Management" with Workshop Special Session: Environmental Health and Climatic Change.
We would like to inform you that

- *the abstracts and full papers will publish in the form of ISBN Proceedings book after the conference.*
- *After the congress, each participant who makes a presentation will has a "Participation Certificate" and to those selected, "The Best Paper Award" document will be sent by e-mail.*
- The deadline for submitting the Full paper: 30th of December 2026.
- *The Programme, Abstracts and Full papers of the Conference is provided to all registered participants in online (electronic) form.*
- *All the received papers will be reviewed by two of the members of the International Committee of the Conference.*
- *All reviewed papers for the 17th ICEEE-2026 International Annual Conference will be published in the Conference Proceedings Book with the ISBN in CD-ROM format and online (electronic) on the website of ICEEE: www.iceee.hu*
- *The selected high-quality manuscripts will be also published in the online journal.*

- *The scientific information and quality of the manuscript is due to the corresponding author of the paper.*

The objectives of the 17th ICEEE-2026 meeting to bring together world-class professional participants and young researchers looking for opportunities for exchanges the scientific knowledge that cross the traditional discipline boundaries and allows them to resolve multidisciplinary challenging problems that only a venue of this nature can offer.
ICEEE-2026 annual international conference provides a platform of international standards where the participants can discuss and share persuasive key advances in Global Environmental Development & Sustainability: Research, Engineering & Management.

Conference Sessions:

A. Healthcare & Public Health Sustainability: Risk & Management
B. Soil Biology & Agricultural Sustainability & Protection of Ecosystems
C. Sustainability of Air Pollution, Water, Sediments & Waste Management
D. Sustainability of Circular (Bio)Economy Strategy of Recycling, & Energy
E. Applied & Natural Sciences & Light Industry & Eco-design

- *The 17th ICEEE-2026 is held through Microsoft Teams.*
- *To join the Conference:*

a) There is a short guide with useful information about how to use the Microsoft Teams during the Conference
b) The participants had the link of the Conference.
c) The time of the Conference is related to the Hungarian time.

- *Please check the time with your time at home*
- *Time of Presentations Online (Microsoft Teams)*

Presentation Type:	Total Allotted Time:
• Plenary speaker	25 min
• Keynote speaker	20 min
• Featured speaker	10 min
• Poster	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 December (30th of December 2026) in word document form.

Chairs of the Sessions:

Plenary Session	*Rita BODÁNÉ-KENDROVICS*
	Hosam BAYOUMI HAMUDA
Keynote Session	*Hosam BAYOUMI HAMUDA*

Technical Sessions

5 *sessions were there and they runout under the session presidency as following:*

A. *Healthcare & Public Health Sustainability: Risk & Management*
Hosam BAYOUMI HAMUDA

B. *Soil Biology & Agricultural Sustainability & Protection of Ecosystems*
B. S. PAWAR

C. *Sustainability of Air Pollution, Water, Sediments & Waste Management*
C1 *Ágnes BÁLINT*
C2 *Surendra Kumar YADAV*

D. *Sustainability of Circular (Bio)Economy Strategy of Recycling, & Energy*
D1 *Sándor J. ZSARNÓCZAI*
D2 *Giuseppe CIABURRO*

E. *Applied & Natural Sciences & Light Industry & Eco-design*
Vera ALPÁR

Poster Session-A and B

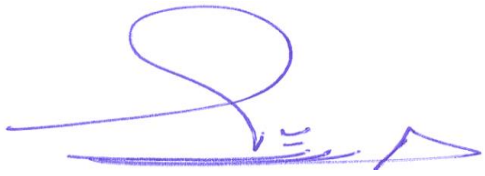
Chair of the Session: *Hosam BAYOUMI HAMUDA*

Workshop Special Session:

Chair of the Session: *Hosam BAYOUMI HAMUDA*

Keynote Speaker:
Hosam E.A.F. BAYOUMI HAMUDA
ENVIRONMENTAL HEALTH AND CLIMATIC CHANGE

The ICEEE annual meeting has successful experiences in past 16 years and dedicated to keep you on the cutting edge of scientific information and application best practice in Environmental Sciences.
Together, participants in the industry, academia to provide unique insights into advances in breakthrough technologies, evolving regulations and investment strategies in Environmental Sciences and Engineering.
Yours sincerely



Prof. Dr. Hosam Bayoumi Hamuda
President of ICEEE
Chairman of the Conference
Obuda University
Budapest - Hungary
E-mail: bayoumi.hosam@uni-obuda.hu
WhatsApp/viber/messenger: +3630390081



The Tentative Programme at Glance

19th of November 2026 (Thursday)

Registration online **(08:00 am – 09:00 am)**

Opening Ceremony

(09:00 am – 09:30 am)

Plenary Session **(09:30 am – 11:30 am)**

Lunch break **(11:30 am – 12:00 pm)**

For all sessions

Oral Scientific Sessions **(12:00 pm – 16:00 pm)**

Poster Scientific Sessions **(15:15 pm – 15:35 pm)**

20th of November 2026 (Friday)

Continuation of the presentation for all sessions

Registration online **(08:00 am – 09:00 am)**

Poster Scientific Sessions **(09:00 am – 10:00 am)**

10:00 am – 10:30 am

Workshop Special Session:

Environmental Health and Climatic Change

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

Oral Scientific Sessions **(10:30 am – 11:30 am)**

11:30 am

Closing ceremony

ICEEE-Cooperation

Our planet requires an array of scientific innovations, and it's time to looked beyond the traditional problems and solve them. This is the critical and exciting time to be alive. The decisions and the actions we take in the next years will define the future for next generations to come. These solutions can be done from practical and not only excellent from theoretical point of view.

From our vision, the main task of the members of our International Council of Environmental Engineering Education board (ICEEE) and their voice, passion, and cooperation are critical to our success.

Please join us to create the future for the new generations free from environmental problems like climatic changes, pollutions, spread of epidemic diseases, reduction in the natural resources, etc., due to the continuous increasing in the global population and depending on the 17 points of sustainable development from United Nations.

With your support, ICEEE can try and continue to solve problems from around the world and to find solutions, catalyse global impact, and create the future we envision.

Prof. Dr. Hosam Bayoumi Hamuda
President of ICEEE
Chairman of the Conference
Obuda University
Budapest - Hungary
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WhatsApp/viber/messenger: +36303900813



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with Workshop Special Session: Environmental Health and Climatic Change



1st Day

Programme of 19th of November 2026 (Thursday)



09:00 – 09:30

Opening Ceremony

https://teams.microsoft.com/meet/3463965453129865?p=sveIGNvMnMpKP1I09r

Dr. Gyula Peter Szigeti

Vice Rector for Science Coordination

Dr. Krisztina Demény

Deputy 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



09:30 – 11:30

Plenary Session

https://teams.microsoft.com/meet/3463965453129865?p=svelGNvMnMpKP1l09r

Chair of the Session: ***Rita BODÁNÉ-KENDROVICS***
Hosam BAYOUMI HAMUDA

PL1 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 RISK ASSESSMENT, STATECRAFT, AND HUMAN SECURITY MANAGEMENT IN NIGERIA

PL2 09:50 – 10:10 Giuseppe Ciaburro

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

A MULTITECHNOLOGY FRAMEWORK FOR RENEWABLE ENERGY INTEGRATION IN URBAN APARTMENTS

PL3 10:10 – 10:30 Zakaria Fouad Fawzy1, Shaymaa I. Shedeed2

1Vegetable Research Department, Agriculture and Biological Research Division - National Research Centre – Egypt.
2Plant Nutrition Department, Agriculture and Biological Research Division - National Research Centre – Egypt

CLIMATE-SMART AND CARBON-SMART AGRICULTURE: AN INTEGRATED APPROACH FOR SUSTAINABLE AGRICULTURAL DEVELOPMENT, CLIMATE CHANGE MITIGATION AND FOOD SECURITY IN DEVELOPING COUNTRI

PL4 10:30 – 10:50 Surendra Kumar YADAV

Environmental Conservation Project, SEHAT India

HEALTH PROBLEMS OF COMMUNITY MEMBERS DUE TO WATER POLLUTION OF HINDON RIVER IN BAGHPAT DISTRICT (UTTAR PRADESH, INDIA)

PL5 10:50 – 11:10 Lyudmyla Symochko1,2,3, Olena Demyanyuk3

1University of Coimbra, Centre for Functional Ecology, Department of life Sciences, Coimbra, Portugal
2CERNAS Research Centre for Natural Resources, Environment and Society, Portugal
3Institute of Agroecology and Environmental Management NAAN, Kyiv, Ukraine.

EMERGING CONTAMINANTS IN THE ENVIRONMENT: RISKS, ECOSYSTEM EFFECTS, AND ONE HEALTH APPROACH

PL6 11:10 – 11:30 Hosam E.A.F. BAYOUMI HAMUDA, Rita BODÁNÉ-KENDROVICS

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

GLOBAL WATER SECURITY AND CLIMATE-RELATED DISASTERS: STRENGTHENING WATER, SANITATION, & HYGIENE (WASH) CLIMATE RESILIENCE

11:30 – 12:00 LUNCH BREAK



Technical Sessions



12:00 – 12:50

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

https://teams.microsoft.com/meet/3244878605248174?p=Q9vx0MWUlqLa5ux4BO

Chair of the Session: Surendra Kumar YADAV

12:00 – 12:10 Oleksandr PYVOVAROV

Kharkiv National Medical University, Kharkiv, Ukraine

ASSESSMENT OF HIGHER EDUCATION STUDENTS AWARENESS OF THE SUSTAINABLE DEVELOPMENT GOALS

12:10 – 12:20 Rutherford Taglan Pag-yel

Department of Biochemistry, Faculty of Biosciences, University for Development Studies, Tamale, Ghana

BIOCHEMICAL IMPACT AND PUBLIC HEALTH RISK OF AFLATOXIN CONTAMINATION IN STAPLE CROPS OF NORTHERN GHANA: A SECONDARY DATA REVIEW AND MITIGATION FRAMEWORK

12:20 – 12:30 James Jameel Asani

University of Johannesburg; WISER, University of the Witwatersrand, Johannesburg, South Africa

WHEN NAPOLO MOVES: INDIGENOUS HAZARD KNOWLEDGE AND COMMUNITY HEALTH RISK MANAGEMENT IN THE LAKE MALAWI–SHIRE RIVER BASIN



12:30– 12:40 Karolina Pesei

Obuda University Rejtő Sándor Faculty of Light Industry and Environmental Engineering

UNDER THE SUN: AN ANALYSIS OF THE LIVED EXPERIENCES OF HEAT AND ITS IMPACT ON MENTAL WELLBEING II.

12:40 – 12:50 Maru Zewdu Kassie[1,2], Tafese Ashine[3]

[1]Department of Epidemiology and Biostatistics, School of Public Health, Bahir Dar University, Bahir Dar, Ethiopia

[2]Department of Statistics, College of Natural and Computational Sciences, Assosa University, Assosa, Ethiopia

[3]Department of Epidemiology and Biostatistics, Faculty of Public Health, Jimma University, Jimma, Ethiopia

A HYBRID STATISTICAL AND MACHINE LEARNING APPROACH TO IDENTIFY DETERMINANTS AND PREDICT MODERN CONTRACEPTIVE USE AMONG REPRODUCTIVE-AGE WOMEN IN ETHIOPIA

12:00 – 16:00

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

https://teams.microsoft.com/meet/3463965453129865?p=sveIGNvMnMpKP1I09r

12:00 – 13:30 Session (B1)

Chair of the Session: ***Neha Singh Raghuvanshi***

Keynote Speaker:

12:00 – 12:15 **Neha Singh Raghuvanshi - Chair**

Abes Engineering College, Ghaziabad, Uttar Pradesh, India

FROM SOIL HEALTH TO SOIL INTELLIGENCE: AI-DRIVEN PREDICTION OF MICROBIAL FUNCTIONS AND AGROECOSYSTEM RESILIENCE

12:15 – 12:25 **Abdul Mukit, Manjeet Singh. Asit Raut, Moumita Deb, Sapna Chejara, Sanjeev Kumar**

Department of Botany, Central University of Punjab, Bathinda, India.

INTEGRATED PHYSIOLOGICAL AND METABOLOMICS ANALYSIS REVEALED THAT NANO PRIMING WITH CA-EDA CARBON QUANTUM DOTS ENHANCES THERMOTOLERANCE IN CROP PLANTS

12:25 – 12:35 **Saswati Chakraborty, Debjit Ankure, Sufia Zaman, Abhijit Mitra**

Department of Oceanography, Techno India University, West Bengal, India.

INFLUENCE OF SOIL SALINITY AND SOIL ORGANIC CARBON ON VEGETABLE BIOMASS AND CARBON STORAGE: IMPLICATIONS FOR AGRICULTURAL SUSTAINABILITY AND ECOSYSTEM PROTECTION IN THE INDIAN SUNDARBANS



12:35 – 12:45 Chetan Dubey, Gagan Preet Kour Bali

Department of Biosciences (UIBT), Chandigarh University, Mohali (Punjab), India.

TORTRICID HOST PLANT DYNAMICS & CLIMATE ADAPTIVE IPM IN NORTH-WEST INDIA

12:45 – 12:55 Gagan Preet Kour Bali, Chetan Dubey

Department of Biosciences (UIBT), Chandigarh University, Mohali (Punjab), India.

EFFECTS OF STRESS ON THE MATING CYCLE OF MOTHS AND ITS IMPACT ON ECOLOGY

12:55 – 13:05 Abrar Hussain, Syed Abid Ali

Third World Center for Science and Technology, H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi, Karachi, 75270, Pakistan

BEYOND PROBIOTIC POTENTIAL: FUNCTIONAL DIVERSITY AND BIOTECHNOLOGICAL APPLICATIONS OF SELECTED ENTEROCOCCUS FAECIUM STRAINS

13:05 – 13:15 Anna Górka, Maria Sanecka

Department of Analytical Biotechnology, Faculty of Biotechnology, Collegium Medicum, University of Rzeszów, Rzeszów, Poland

ELEMENTAL COMPOSITION AND METAL CONTENT OF SOILS FROM FIFTEEN URBAN PARKS IN RZESZÓW, POLAND



13:15 – 13:30 **Nasri Raja, Mbarek Hedi, Neji Mohamed, Mahdhi Mosbah**

Laboratory of Biodiversity and Valorization of Bio-Resources in Arid Areas (LR18ES36), Faculty of Sciences of Gabès, University of Gabès, Gabès, Tunisia.

INDIGENOUS PLANT GROWTH-PROMOTING RHIZOBACTERIA FROM ARID REGIONS OF TUNISIA: FUNCTIONAL DIVERSITY AND POTENTIAL FOR SUSTAINABLE AGRICULTURE UNDER ENVIRONMENTAL STRESS)

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

https://teams.microsoft.com/meet/3463965453129865?p=svelGNvMnMpKP1l09r

13:30 – 15:05 Session (B2)

Chair of the Session: ***Iryna Gumeniuk, Olena Demyanyuk***

Keynote Speaker:

13:30 – 13:45 **Iryna Gumeniuk, Alla Levishko, Olena Demyanyuk**

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

THE BIOLOGICAL METHOD FOR THE REMEDIATION OF SOIL CONTAMINATED AS A RESULT OF WARFARE

13:45 – 13:55 **Karim Ennouri, Imen Fourati Kallel, Mohamed Kallel, Mourad Fakhfakh**

University of Sfax, Sfax, TUNISIA

MANAGING FUNGAL PATHOGENS OF FIELD CROPS USING REMOTE SENSING TECHNOLOGIES

13:55 – 14:05 **Amina AKACHAT and Cherine AMRI**

Water and Environment Laboratory, Faculty of Exact Sciences and Natural and Life Sciences, University Echahid Cheikh Larbi Tebessi, 12002 Tébessa, Algeria

STRUCTURE, COMPOSITION, AND ECOLOGICAL CHARACTERISTICS OF GROUND BEETLE COMMUNITIES ACROSS DIFFERENT HABITATS IN MEDITERRANEAN LANDSCAPES



14:05 – 14:15 **Asmae El Fatmi1,2, Hiba Zegroud1,2, Sara ElHamji1,2, Karim Sbihi[2],3, Faissal Aziz1,2**

[1] Laboratory of Water Sciences, Microbial Technologies and Natural Resources Sustainability, Cadi Ayyad University, Faculty of Sciences Semlalia (FSSM), Marrakech, Morocco

2 National Centre for Research and Study on Water and Energy (CNEREE), University Cadi Ayyad, Marrakech, Morocco

[3] Laboratory Analysis, Modeling, Engineering, Natural Substances and Environment, Natural Substances, Health and Environment Team, Polydisciplinaire Faculty of Taroudant, University Ibn Zohr, Morocco

MICROALGAE-BASED TREATMENT OF OLIVE MILL WASTEWATER: POLYPHENOL REMOVAL AND AGRONOMIC VALORIZATION OF THE RESULTING BIOMASS

14:15 – 14:25 **Achraf BERRADI1, 2, Ahlam LAFDALI1, 2, 3, Naaila OUAZZANI1, 2, Faissal AZIZ1,2 ***

1Laboratory of Water Sciences, Microbial Biotechnologies and Natural Resources Sustainability, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco.

2National Center for Research and Studies on Water and Energy (CNEREE), Cadi Ayyad University, Marrakech, Morocco.

3Laboratory of Innovative Materials, Energy and Sustainable Development (IMED-Lab), Faculty of Science and Technology, Cadi Ayyad University, Marrakech, Morocco.

BIOBASED SUPERABSORBENT POLYMERS: INNOVATIVE MATERIALS FOR SUSTAINABLE WATER MANAGEMENT IN AGRICULTURE



14:25 – 14:35 **Amina BOUKRIM, 1,2 Hicham QAYOUH, 2 Estelle METAY, 1 Nicolas DUGUET 1, Mohammed LAHCINI, 2,3**

1Université Lyon 1, CNRS, ICBMS, UMR 5246, Villeurbanne, France

2Laboratoire Matériaux Innovants, Énergie et Développement Durable (IMED-Lab) Université Cadi Ayyad, Marrakech, Marocco

3Department of Chemical and Biochemical Sciences, Green Process Engineering (CBS), University of Mohammed VI Polytechnic, Benguerir, Morocco

BIODEGRADABLE CARDANOL-BASED COPOLYMERS AS COATING MATERIALS FOR CONTROLLED RELEASE OF FERTILIZERS

14:35 – 14:45 **Ahlam Lafdali, Achraf Berradi, Rachid Mouqaddem, Faissal Aziz**

Laboratory of Water Sciences, Microbial Biotechnologies and Natural Resources Sustainability, Cadi Ayyad University, Faculty of Sciences Semlalia, Marrakech, Morocco

ENGINEERING BIO-BASED SUPERABSORBENT HYDROGELS FOR EFFICIENT WATER RETENTION AND SUSTAINABLE AGRICULTURE

14:45 – 14:55 **Fentahun Assefa Wuletaw**

Debre Tbor University, Debre Tabor, Amhara, Ethiopia

DETERMINANTS OF IMPROVED LIMU MAIZE VARIETY ADOPTION AMONG SMALLHOLDER FARMERS IN CASE OF FOGERA DISTRICT, AMHARA REGION, ETHIOPIA



14:55 – 15:05 **Ágnes BÁLINT1, Boldizsár SZILVÁGYI1, Xuchu WANG2, Csaba MÉSZÁROS3**

1Óbuda University, 1034 Budapest, Hungary

2Hungarian University of Agriculture and Life Sciences, 2100 Gödöllő, Hungary,

3Independent researcher, Budapest, Hungary

INVESTIGATION OF THE EFFECTS OF PB AND CO EXPOSURE ON THE MORPHOLOGICAL CHARACTERISTICS AND CHLOROPHYLL CONTENT OF GARDEN CRESS (LEPIDIUM SATIVUM L.) AND WHEAT (TRITICUM AESTIVUM L.) IN A POT EXPERIMENT

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

https://teams.microsoft.com/meet/3463965453129865?p=svelGNvMnMpKP1l09r

15:05 – 16:00 Session (B3)

Chair of the Session: **Sándor J. Zsarnóczai**

15:05 – 15:20 **Keynote speaker**
Sándor J. Zsarnóczai, Hosam E.A.F. Bayoumi Hamuda

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

WHEAT PRODUCTION AND SUPPLY IN EGYPT, IRAQ, ALGERIA, IRAN AND TURKEY IN 2020S

15:20 – 15:30 **Richárd Wagner[1], Emőke Imre[2,3,4], Ágnes Bálint[5], Hosam E.A.F. Bayoumi Hamuda[5], Borbála Biró[6]**

[1]OS Pelso Ltd., 3100 Salgótarján Baglyasi út 1.

[2]Óbuda University, AIAM Doctoral School, Budapest, Hungary

[3]HUN-REN Research Centre of Physics, Budapest, Hungary

[4]Hydro-Bio-Mechanical Systems Research Centre, Óbuda University Budapest, Hungary

[5]Óbuda University, Institute of Environmental Engineering and Natural Sciences, Budapest, Hungary

[6]BIOdeTECHt Ltd., 2030 Érd, Ágnes út 30., Hungary

SOME IDEAS TO INCREASE THE SOIL HUMUS CONTENT



15:30 – 15:40 Delphin Kabey Mwinken[1,2], Emoke Imre[3]

[1]Doctoral School of Applied Informatics and Applied Mathematics, Óbuda University, Budapest 1034, Hungary.

[2]Instituto Politécnico, Universidade José Eduardo dos Santos, Huambo 9000, Angola.

[3]EKIK HBM Research Center, Óbuda University, Budapest 1034, Hungary.

SOIL-WATER RETENTION MODELS UNDER UNSATURATED CONDITIONS: ANALYTICAL CURVATURE AND A CRITICAL AUDIT OF REPORTED FITTING PERFORMANCE

15:40 – 15:50 Katalin Vehovszky, Attila J. Trájer

University of Pannonia, Veszprém, Hungary

PYROPHILOUS FUNGI AND FIRE-ASSOCIATED PLANTS ACROSS EUROPE: DISTRIBUTION PATTERNS, ENVIRONMENTAL NICHES, AND WILDFIRE RISK

15:5 – 16:00 Abraham Desalegn, Abdul. A.S. Katakweba, Alfan Abeid Rija

Mekelle University, Mekelle, Ethiopia; Sokoine University of Agriculture, Morogoro, Tanzania

SEASONAL AND HABITAT-RELATED PATTERNS OF REPRODUCTIVE ACTIVITY IN TWO SYMPATRIC ENDEMIC AFROALPINE RODENTS IN THE GUASSA MENZ COMMUNITY CONSERVATION AREA, ETHIOPIA



12:00 – 15:20

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

https://teams.microsoft.com/meet/364949934982225?p=hsGsCAUCdDmsG622iC

12:00 – 13:30 Session (C1)

Chair of the Session: ***Salma1LATIQUE***

12:00 – 12:10 **SUDESH KUMAR**

Department of Education in Science & Mathematics, National Institute of Education, NCERT, New Delhi 110016, India

REVOLUTIONISING WASTE COOKING OIL: ENHANCING QUALITY AND PSYCHOCHEMICAL PROPERTIES THROUGH SILICA-EMBEDDED CHITOSAN MEMBRANE

12:10 – 12:20 **Khouloud BENHASSEN[a], Asma MASSMOUDI[a], Rihab MILADI[a], Nader FRIKHA[a], Slimane GABSI[a], Mohammed KHALIJ[b], Abdelhamid KHEIRI[b]**

[a]Laboratory Energy Water Environment and Processes National School of Engineers of Gabes, Gabes Unversity, Street Omar Ibn ElKhattab, Tunisia

[b]University of Lorraine, CNRS, LEMTA, Nancy, France

DESIGN AND NUMERICAL MODELING OF A PACKED-BED HUMIDIFIER FOR A HUMIDIFICATION–DEHUMIDIFICATION (HDH) DESALINATION PROCESS



12:20 – 12:30 **Bouthaina Othmani[1], José A. F. Gamelas[2], Maria G. Rasteiro[2], Moncef Khadhraoui[1]**

[1]Laboratory for Environmental Engineering and Eco-technology, University of Sfax, Tunisia

[2]Department of Chemical Engineering and CIEPQPF, University of Coimbra, Portugal

GREEN FLOCCULANT FROM CACTUS CLADODES: PHYSICOCHEMICAL CHARACTERIZATION AND FLOCCULATING ACTIVITY FOR CRYSTAL VIOLET DYE REMOVAL

12:30 – 12:40 **Amal DJELLOULI[1], Fatima Zahra BENHACHEM[1,2]**

[1]Laboratory of Separation and Purification Technologies, Department of Chemistry, Faculty of Sciences, University of Tlemcen, Algeria

[2]Department of Industrial Engineering, Faculty of Technology, University of Tlemcen, Tlemcen, Algeria

SUSTAINABLE WASTEWATER TREATMENT: ADSORPTIVE REMOVAL OF MALACHITE GREEN DYE USING A BIOCOMPOSITE

12:40 – 12:50 **Sakina Nemouchi[1], Sihem Salmi-Laouar[1], El hadj Youcef Brahim[2], Ahmed Abdelhady[3], Amor Deghaichia[4]**

[1]Geology Research Laboratory (LRG), University of Badji Mokhtar, Annaba, B.P. 12, 23000, Algeria.

[2]Laboratory of Geology and Environment, University of Batna 2, Algeria.

[3]Geology Department, Faculty of Science, Minia University, 61519 El-Minia, Egypt

[4]University of Cheikh Larbi Tebessi, Tebessa, Algeria.

SANTONIAN COOLING AND PALEOENVIRONMENTAL CHANGES IN TÉBESSA (NORTHEAST ALGERIA): EVIDENCE FROM OSTRACOD AND FORAMINIFERAL ASSEMBLAGES



12:50 – 13:00 **Sakina Nemouchi[1], Sihem Salmi-Laouar[1], El hadj Youcef Brahim[2], Ahmed Abdelhady[3], Amor Deghaichia[4]**

[1]Geology Research Laboratory (LRG), University of Badji Mokhtar, Annaba, B.P. 12, 23000, Algeria.

[2]Laboratory of Geology and Environment, University of Batna 2, Algeria.

[3]Geology Department, Faculty of Science, Minia University, El-Minia, Egypt

[4]University of Cheikh Larbi Tebessi, Tebessa, Algeria.

SANTONIAN COOLING AND PALEOENVIRONMENTAL CHANGES IN TÉBESSA (NORTHEAST ALGERIA): EVIDENCE FROM OSTRACOD AND FORAMINIFERAL ASSEMBLAGES

13:00 – 13:10 **Leila AZARYOUH [1,2], Amine MIFTAH[1], Zineb Kassab[2], Silvia Roman Suero[3], Khalifa EL HARFI[1], Mounir EL ACHABY[2], Adil ABOULKAS[1]**

[1]Chemical Processes and Applied Materials Laboratory, Polydisciplinary Faculty, Sultan Moulay Slimane University, Beni-Mellal, Morocco.

[2]Materials Science, Energy and Nanoengineering Department, Mohammed VI Polytechnic University, Lot 660 – Hay Moulay Rachid, Ben Guerir, Morocco.

[3]Departamento de Física Aplicada y, Universidad de Extremadura, Avda. Elvas s/n, Spain

FROM AGRICULTURAL WASTE TO WATER TREATMENT MATERIAL: HYDROCHAR PRODUCTION FROM TWO-PHASE OLIVE MILL WASTE

13:10 – 13:20 **Chaimae Maldou, Dominique Courault, Tonni Agustiono Kurniawan, Naaila Ouazzani, Faissal Aziz**

Aquabiotech Laboratory, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco

FROM OLIVE WASTE TO SAFE IRRIGATION: BIOCHAR-BASED WETLAND TREATMENT AND SATELLITE MONITORING FOR CIRCULAR WATER REUSE IN MEDITERRANEAN OLIVE GROVES

13:20 – 13:30 **EL-BAGGAR Imane[1], BAHHOU Jamila[1], LATIQUE Salma[1,2]**

[1]Laboratory of Biotechnology, Conservation and Valorization of bioresources, Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco.

[2]Laboratory of Drug Sciences, Faculty of Medicine, Pharmacy and Dentistry of Fez, Sidi Mohamed Ben Abdellah University, Morocco,

GROWTH KINETIC CHARACTERIZATION OF MICROALGAE ISOLATED FROM FRESHWATER BODIES IN THE FEZ-MEKNES REGION, MOROCCO

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

https://teams.microsoft.com/meet/364949934982225?p=hsGsCAUCdDmsG622iC

13:30 – 15:20 Session (C2)

Chair of the Session: Faissal Aziz

13:30 – 13:40 Sara Elhamji[1,2], Faissal Aziz[1,2], Hiba Zegroud[1,2], Karim Sbihi[2,3]

[1]Cadi Ayyad University, Faculty of Sciences Semlalia of Marrakech, Laboratory of Water Sciences, Microbial Biotechnologies, & Natural Resources Sustainability, Marrakech, Morocco
[2]Cadi Ayyad University, National Centre for Research and Study on Water and Energy, Av. Abdelkrim Elkhattabi, Marrakech, Morocco.
[3]Laboratory Analysis, Modelling, Engineering, Natural Substances and Environment, Polydisciplinary Faculty of Taroudant, Taroudant, University Ibn Zohr, Morocco.

DIATOM-BASED TREATMENT OF INDUSTRIAL WASTEWATER AND BIOMASS VALORISATION: TOWARDS AN INTEGRATED APPROACH TO POLLUTION CONTROL AND RESOURCE RECOVERY

13:40 – 13:50 Yanina Romero[1], Janette Bessembinder[2], Nick van de Giesen3, Frans van de Ven[3]

[1]Beuningen, The Netherlands
[2]Royal Netherlands Meteorological Institute, De Bilt, The Netherlands
[3]Delft University of Technology, Delft, The Netherlands

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



13:50 – 14:00 Felicia Wole-Alo[1] Gbolade Agbomuserin[2], Busola Adesemoye

[1]Federal University of Technology, Akure, Nigeria,

[2]Federal University of Agriculture, Abeokuta, Nigeria

FROM WASTE TO WEALTH: A CASE STUDY OF FARMERS UTILIZING WASTE TO ENHANCE THEIR WEALTH STATUS IN EDO STATE, NIGERIA

14:00 – 14:10 Iskander Ben Rjiba

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

ALIGNING REPORTED FLOOD HAZARDS WITH CLIMATE ACTION PRIORITIES IN EUROPEAN CITIES

14:10 – 14:20 Andrea ORBÁN[1,2], Viola SOMOGYI[2]

[1]Sistemul de Gospodărire a Apelor Covasna, Sfântu Gheorghe, România

[2]University of Pannonia, Veszprém, Hungary

LONG-TERM PERFORMANCE AND TREATMENT EFFICIENCY OF SMALL MUNICIPAL WASTEWATER TREATMENT PLANTS: AN INFLUENT–EFFLUENT DATA ANALYSIS FROM COVASNA COUNTY, ROMANIA

14:20 – 14:30 Lehlohonolo Mothae

Leribe Lesotho

WATER POLLUTION AND ENVIRONMENTAL HEALTH IN LESOTHO: BIOLOGICAL AND CHEMICAL APPROACHES TO SUSTAINABLE WATER MANAGEMENT



14:30 – 14:50 Surendra Kumar YADAV

Environmental Conservation Project, SEHAT India;

GEOSPATIAL TECHNIQUES BASED ENVIRONMENTAL MODELING FOR IDENTIFICATION OF GROUNDWATER POTENTIAL AREAS IN SOUTH DELHI REGION

14:50 – 15:00 Boyd T Miller

Texas A&M University School of Law, USA

CLEAN WATER SOURCES ON NATIVE AMERICAN RESERVATIONS - A PHENOMENOLOGICAL CASE STUDY

15:00 – 15:10 Boyd T Miller

Texas A&M University School of Law, USA

THE COLORADO RIVER COMPACT

15:10 – 15:20 Tamás Kloknicer[1,2], Dániel Sándor Benjámin[1], Anita Szabó[1]

[1]Inno-Water Inc.

[2]Óbuda University, Institute of Environmental Engineering and Natural Sciences, Budapest, Hungary

INTRODUCING DIFFERENT TYPES OF ALGAE BIOMASS MONITORING



12:00 – 15:15

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

https://teams.microsoft.com/meet/3698957797882918?p=xeWAYi4JqJek9mK7wU

12:00 – 13:30 Session (D1):

Chair of the Session: Giuseppe CIABURRO

12:00 – 12:10 Nimit Sharma[1], Shivasharana Marnur[1], Vijaya Kittu Manda[2], Theodore Tarnanidis[3]

[1]REVA University, Bengaluru, India

[2]PBMEIT, Visakhapatnam, India

[3]University of Macedonia, Greece

A BIBLIOMETRIC ANALYSIS OF MULTI-CRITERIA DECISION-MAKING (MCDM/PROMETHEE) IN CIRCULAR ECONOMY AND REVERSE LOGISTICS NETWORKS

12:10 – 12:20 Sarika Verma, Dr Avinash Gupta

ICFAI Business School, Jaipur, India

FINANCIAL BEHAVIOUR AND GREEN INVESTMENT PREFERENCES TOWARDS RENEWABLE ENERGY AND CIRCULAR ECONOMY INITIATIVES AMONG ACADEMICIANS IN HYDERABAD, INDIA



12:20 – 12:30 M Swapna, R Joycee

Sathyabama institute of science and technology, Chennai, Tamil Nadu, India

LEVERAGING ONLINE CONSUMER REVIEWS TO DRIVE MARKETING EFFECTIVENESS OF SUSTAINABLE PRODUCTS: THE MEDIATING ROLE OF CONSUMER TRUST IN THE CIRCULAR ECONOMY ERA

12:30 – 12:40 Mary Jasmine K R, Mathan N

Sathyabama Institute of Science and Technology, Chennai, India

NEOBANKING AND ENVIRONMENTAL SUSTAINABILITY IN INDIA: EXPLORING CUSTOMER PERSPECTIVES ON FINTECH-ENABLED GREEN BANKING

12:40 – 12:50 Abylay Tasbolatov

Garduate school of Economics and tourism, Institution: L.N. Gumilyov Eurasian National University, Astana, Kazakhstan

ASSESSING THE EFFICIENCY OF PUBLIC EXPENDITURE ON SUSTAINABLE ROAD INFRASTRUCTURE DEVELOPMENT IN KAZAKHSTAN

12:50 – 13:00 Mustafa Ergün

Giresun University, Giresun, Türkiye

BALANCING CARBON EMISSIONS AND FLOOD RESILIENCE IN LAST-MILE DELIVERY: A GIS-BASED SCENARIO ANALYSIS IN GIRESUN, TÜRKIYE



13:00 – 13:10 Safiullah Shirzad[1], Sándor J. ZSARNÓCZAI[2]

[1]Hitit University, Faculty of Energy Engineering and Natural Sciences, Institute of Energy Engineering, Çorum, Turkey

[2]Óbuda University, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Institute of Environmental Engineering, Natural Sciences, Budapest, Hungary

ENERGY DEMAND ASSESSMENT OF AN UNDERGROUND FRUIT COLD-STORAGE FACILITY IN LOGAR PROVINCE, AFGHANISTAN

13:10 – 13:20 Kindson Munonye

Alkademy Learning Ltd, Port Harcourt, Nigeria

TRANSFORMER-BASED FORECASTING OF ENERGY DEMAND FOR RENEWABLE INTEGRATION: AN EXPLAINABLE APPROACH TO SUSTAINABLE ENERGY MANAGEMENT

13:20 – 13:30 Krisztina Takacs, Endre Domokos

University of Pannonia, Veszprém, Hungary

WHY INTEGRATED ATMOSPHERIC MODELLING IS ESSENTIAL FOR ASSESSING INDUSTRIAL CONTRIBUTIONS TO ACID DEPOSITION



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

https://teams.microsoft.com/meet/3698957797882918?p=xeWAYi4JqJek9mK7wU

13:30 – 15:15 ***Session (D2):***

Chair of the Session: **Georgina Tóth-Nagy**

Keynote speaker

13:30 – 13:45 **Georgina Tóth-Nagy**

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

STRUCTURAL AND ENVIRONMENTAL CHALLENGES OF THE CARBON CREDIT MARKET

13:45 – 13:55 **José Tiago Sousa**

NOVA School of Science and Technology (NOVA FCT), NOVA University Lisbon, Caparica, Portugal

SUSTAINABLE FINANCE AND THE ENERGY TRANSITION: AN ECONOMIC-SOCIOLOGICAL AND DECOLONIAL ANALYSIS OF GREEN BONDS AND SUSTAINABILITY-LINKED BONDS



13:55 – 14:05 **José Tiago Sousa**

NOVA School of Science and Technology (NOVA FCT), NOVA University Lisbon, Caparica, Portugal

THE IRON GRIP OF REGULATION: CRITICAL SURVEILLANCE ON CBAM AND ESG FORCES IN THE STEEL AND CEMENT SECTORS - A QUALITATIVE STUDY OF CORPORATE DOCUMENTATION (THREE EUROPEAN SUCCESS CASES)

14:05 – 14:15 **Ikram Khabach[1,2], Salim Sawadogo[3], Tan Trung Bui[3], Abdelkrim Bennani[2], Stéphane Hans[4], Nathalie Leblanc[5], Hafida Zmamou[5], Marco Cappellari[6], Mounir Kriraa[1], Ali Limam[3]**

[1]Cadi Ayyad University, Marrakesh, Morocco
[2]HEPIA, HES-SO University of Applied Sciences and Arts Western Switzerland, Geneva, Switzerland
[3]INSA Lyon, Villeurbanne, France
[4]ENTPE, Vaulx-en-Velin, France
[5]UniLaSalle, Mont-Saint-Aignan, France
[6]Vicat, L'Isle-d'Abeau, France

BEYOND HEMP SHIV: COMPARING RAPESEED, SUNFLOWER AND MISCANTHUS AGGREGATES IN LOW-CARBON BIO-BASED CONCRETES UNDER A COMMON PROTOCOL

14:15 – 14:25 **Yassir KHALSI, Mouhcine AZRIOUIL, Mehdi MENNANI, Zineb KASSAB**

College of Chemical Sciences and Engineering, Department of Materials Science, Energy and Nano-engineering, Mohammed VI Polytechnic University, Benguerir, Morocco.

GRAPHITIC CARBONS FROM RENEWABLE FEEDSTOCKS FOR ADVANCED SENSOR APPLICATIONS

14:25 – 14:35 **Amal JOHARI[1,2,3], Faissal AZIZ[4], Abdelhamid KHEIRI[1], Mohammed KHALIJ[1], Yassir BELLAZIZ[2], Fatima AIT NOUH[5], Mohammed BOUKENDIL[2]**

[1]Lorraine University, CNRS, LEMTA, F-54000 Nancy, France

2Fluid Mechanics and Energetic Laboratory (LMFE) Unit Affiliated to CNRST (URL-CNRST N° 16), Faculty of Sciences Semlalia, Cadi Ayyad University B.P. 2390, Marrakesh, Morocco.

3CNEREE, Cadi Ayyad University, Marrakesh, Morocco

4Laboratory of Water Sciences, Microbial Biotechnologies and Natural Resources Sustainability, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakesh, Morocco

5LPFAS, Polydisciplinary Faculty of Safi, Cadi Ayyad University, Safi, Morocco

CONCENTRATED SOLAR ENERGY FOR BIOCHAR PRODUCTION FROM OLIVE POMACE: SOLAR PYROLYSIS AND PHYSICOCHEMICAL CHARACTERIZATION

14:35 – 14:45 **Soukayna OUBOURHIM[1,2], Abdelhamid KHEIRI[1], Ahmed AL MERS[2], Yousra FILALI BABA[3], Mohammed KHALIJ[1]**

[1]Lorraine University, CNRS, LEMTA, F-54000 Nancy, France

[2]Abdelmalek Essaâdi University, ISI Laboratory, National School of Applied Sciences, Tetouan, Morocco

[3]Thermal and Energy Research Team, Ecole Nationale Supérieure d'Arts et Métiers of Rabat, Mohammed V University in Rabat, Rabat, Morocco

DYNAMIC COOLING-LOAD ASSESSMENT OF AN AGRICULTURAL COLD ROOM IN OUARZAZATE AS A BASIS FOR SOLAR-DRIVEN ABSORPTION REFRIGERATION



14:45 – 14:55 Anna Szaniszló, Eszter Sós

Széchenyi István University, Department of Logistics and Forwarding, Győr, Hungary

SELECTIVE WASTE COLLECTION AMONG TEENAGERS

14:55 – 15:05 Szilvia Szabó[1], Janka Bobek-Nagy[1], Zsuzsanna Banász[2]

University of Pannonia, Veszprém, Hungary

[1]Sustainability Solutions Research Laboratory

[2]Department of Economics

PUBLIC DISCLOSURE & TRANSPARENCY REQUIREMENTS FOR DEPOSIT RETURN SYSTEMS (DRS) AND ITS EUROPEAN EVIDENCE

15:05 – 15:15 Elshaday Aysheshim

Sangjin Micron Hungary KFT

EXPERIMENTAL INVESTIGATION OF SILCON CARDBIDE RIENFORCED EPOXY COMPOSITE



12:50 – 15:15

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

https://teams.microsoft.com/meet/3244878605248174?p=Q9vx0MWUlqLa5ux4BO

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

12:50 -13:05 Keynote speaker:

Emőke IMRE[1,2], Delphin K. MWINKEN[2], Adane AKATE[2], Ágnes BÁLINT[3], Francesca CASINI[4], Giulia GUIDA[4]

[1]Óbuda University, AIAM Doctoral School, Hungary,

[2]Wigner Research Institute, Budapest, Hungary.

[3]Óbuda University, Rejtő Sándor Faculty, Hungary4 Roma Tor Vergata, Via del Politecnico, Roma, Italy

ANALYSES OF A SOIL SCIENCE DATABASE -2

13:05 – 13:15 **Partha Sarathi Roy[1], Parnia Gazerani[2]**

[1]Department of Pharmaceutical Chemistry, Sister Nivedita University, Newtown, Kolkata, India

[2]Department of Pharmacy, University of Genoa, Italy

ENGINEERING NOVEL XEROGELS FOR COLON TARGETING: DETERMINATION OF STRAIN SWEEPS

13:15 – 13:25 **Vladyslav Khrykov, Radion Cherkez**

Chernivtsi National University, Chernivtsi, Ukraine

MODELING OF TRANSIENT PROCESSES IN A THERMOELECTRIC COOLING CHAMBER WITH HEAT TRANSFER INTENSIFICATION



13:25 – 13:35 **Zoubir Belhimer, Azzedine Bouzenoune, Abdelhakim Bouchair**

Geological Engineering Laboratory, University of Jijel, Jijel, Algeria

Fe-Ti MINERALIZATION ASSOCIATED WITH WADI SLACENE TRIASSIC OPHITES (EASTERN BABORS, NORTHEASTERN ALGERIA)

13:35 – 13:45 **Irinislimane Kenza**

Research Unit Materials, Processes & Environment, M'Hamed Bougara University, Boumerdes, Algeria

MODELING AND SIMULATION FOR THE PREDICTIVE MAINTENANCE OF A GAS TURBINE

13:45 – 13:55 **Salma Ayadi[1,2], Ghizlane Akhouy[1,2], Zakaria Ellehah[1,2], Stephanie Degoutin[3], Faissal AZIZ[1,2]**

[1]Lab of Water Sciences, Microbial Biotechnologies and Natural Resources Sustainability, FSSM, Cadi Ayyad University, Marrakech, Morocco

[2]National Center for Studies and Research on Water and Energy, Cadi Ayyad University, Marrakech, Morocco

[3]Lille University, CNRS, INRA, ENSCL UMR8207, UMET – Materials and Transformations Unit, Lille, France

GREEN-SYNTHESIZED ZINC OXIDE NANOPARTICLES INCORPORATED INTO ELECTROSPUN PVDF-HFP/GELATIN NANOFIBERS FOR ACTIVE FOOD PACKAGING



13:55 – 14:05 **Zahira Hichame[1,2], Ismail Adoumaz[1], Taha El Assimi[1], Mounir El Achaby[2], Zineb Kassab[2], Mohammed Lahcini[1,2]**

[1]IMED-Laboratory, Faculty of Sciences and Techniques, Cadi Ayyad University, Avenue Abdelkrim Elkhattabi, Marrakech, Morocco.

[2]College of Chemical Sciences and Engineering, Department of Materials Science, Energy and Nano-engineering, Mohammed VI Polytechnic University, Benguerir, Morocco.

DEVELOPMENT AND CHARACTERIZATION OF A BIO-BASED ABSORBENT PAD FOR MOISTURE MANAGEMENT IN FOOD PACKAGING

14:05 – 14:15 **Pegah Poursafar, Adrienn Kazsoki, Barnabás Palcsó, Károly Süvegh, Romána Zelkó**

Semmelweis University, Budapest, Hungary; Eötvös Loránd University, Budapest, Hungary

STRUCTURE-DEPENDENT CHLORINE DIOXIDE RELEASE FROM POLY(ACRYLIC ACID) AND HYDROXYETHYL CELLULOSE HYDROGELS

14:15 – 14:25 **Róbert Szabó**

Eötvös Loránd University Doctoral School of Physics, Budapest, Hungary

TURNING DEMONSTRATION VIDEOS INTO ACTIVE LEARNING TOOLS: A PRACTICAL FRAMEWORK FOR THERMAL PHYSICS

14:25 – 14:35 **Kristóf Tóth**

Széchenyi István University, Győr, Hungary

INTEGRATING METACOGNITION AND MENTAL MODELS: REDESIGN OF A QUANTUM PHYSICS TEACHING-LEARNING SEQUENCE



14:35 – 14:45 **Mustafa Hathal, Csilla Varga, Viola Somogyi**

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

LIFTING DENSE BIODEGRADABLE BIOCARRIERS WITH AIR ALONE: AERATION DESIGN FOR PURE PLA CARRIERS IN A MOVING BED BIOFILM REACTOR

14:45 – 14:55 **Shohruh Rakhmataliev, Dániel Koncz-Horváth, Zoltán Herceg, Márton Benke**

Institute of Physical Metallurgy, Metalforming and Nanotechnology, University of Miskolc, Miskolc, Hungary

CONTINUOUS CEMENTITE NETWORK AS A KINETIC DIFFUSION BARRIER AGAINST MOLTEN SAC205 LEAD-FREE SOLDER

14:55 – 15:05 **Áron Kovács, Endre Domokos**

University of Pannonia, Veszprém, Hungary

WHEN DOES BIKE SHARING CONTRIBUTE TO SUSTAINABLE URBAN MOBILITY? EXAMINING ENVIRONMENTAL IMPACTS, MODAL SHIFT AND OPERATIONAL CONDITIONS



15:05 – 15:15 Delphin Kabey Mwinken[1,2], Emoke Imre[3]
[1]Doctoral School of Applied Informatics and Applied Mathematics, Óbuda University, Budapest, Hungary
[2]Instituto Politécnico da Universidade José Eduardo dos Santos University (IP-UJES) Huambo-Angola
[3]EKIK HBM Research center, Obuda University, Budapest, Hungary

NUMERICAL VERIFICATION AND MODEL DEPENDENCE IN SOIL WATER RETENTION ANALYSIS GARDNER, VAN GENUCHTEN AND FREDLUND XING FORMULATIONS WITHIN A FOURTEEN VARIABLE GEOTECHNICAL FRAMEWORK



15:15 – 15:35
Poster Session (A)

https://teams.microsoft.com/meet/3244878605248174?p=Q9vx0MWUlqLa5ux4BO

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

15:15 – 15:20 **Yara Ezal Deen Sultan**

Environmental Consultant, Majan Environmental Consultancy, Muscat, Sultanate of Oman

FROM ENVIRONMENTAL IMPACT ASSESSMENT TO EFFICIENT ENVIRONMENTAL PLAN: A CRITICAL REVIEW OF MITIGATION MEASURES, MONITORING, AND ENVIRONMENTAL COMPLIANCE

15:20 – 15:25 **Anastasiya Lopatina**

Independent Researcher, Dresden, Germany

KINKLUSION: A RULE-BASED MIDDLEWARE LAYER FOR COGNITIVE ACCESSIBILITY IN INTERACTIONS WITH LARGE LANGUAGE MODELS – DESIGN CONCEPT AND STUDY PROTOCOL

15:25 – 15:30 **Amal DJELLOULI[1], Fatima Zahra BENHACHEM[1,2]**

[1]Laboratory of Separation and Purification Technologies, Department of Chemistry, Faculty of Sciences, University of Tlemcen, Algeria

[2]Department of Industrial Engineering, Faculty of Technology, University of Tlemcen, Tlemcen, Algeria

SUSTAINABLE WASTEWATER TREATMENT: ADSORPTIVE REMOVAL OF MALACHITE GREEN DYE USING A BIOCOMPOSITE



15:30 – 15:35 Hajnalka BORDÁS, Hosam E.A.F. BAYOUMI HAMUDA

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

SOURCES OF LESS POTENTIAL NUTRITION IN CONTEMPORARY FOOD RESOURCES



2nd Day

Programme of 20th of November 2026 (Friday)



09:00 – 10:00

Poster Session (B)

https://teams.microsoft.com/meet/3797211188216372?p=PPF6l3x01MAkmLvjJb

Chair of the Session: Hosam BAYOUMI HAMUDA
Publications and presentations are not necessary

Azzeddine REGHAIS*, Smail BRAHMI, Aboutaleb MEZERZI, Wahid CHATTAH

Higher School of Teachers in Setif–Messaoud Zeghar, Sétif, Algeria

A COMPOSITIONAL FRAMEWORK FOR GROUNDWATER CLASSIFICATION AND SUSTAINABLE MANAGEMENT

Azzeddine REGHAIS*, Smail BRAHMI, Aboutaleb MEZERZI, Wahid CHATTAH

Higher School of Teachers in Setif–Messaoud Zeghar, Sétif, Algeria

ARTIFICIAL NEURAL NETWORKS FOR GROUNDWATER POLLUTION PREDICTION IN ARID AGRICULTURAL REGION

Aditya Sharma

Vivekananda Global University, NRI Rd, V I T Campus, Sector-36, Karolan Ka Barh, Seesyawas, Jaipur, Rajasthan, India

METABOLIC REPROGRAMMING AND RHIZOMICROBIOME DYNAMICS IN DROUGHT-EXPOSED RICE (ORYZA SATIVA L.) MEDIATED BY AN OSMOTOLERANT PGPR CONSORTIUM



Anatolii KARAS, Nazarii SUS

Institute of Horticulture of the National Academy of Agrarian Sciences

EFFECT OF CUTTING ORIGIN ON THE REGENERATIVE CAPACITY OF HAZELNUT (CORYLUS MAXIMA MILL.) CULTIVARS

Aqsa Kanwal

Institute of Botany, Bahauddin Zakariya University, Multan, Pakistan

EFFECTS OF VARIOUS HORMONAL SEED PRIMING ON MODIFYING THE GROWTH AND BIOCHEMICAL PROPERTIES OF CHILLI (CAPSICUM ANNUUM L.) UNDER WATER DEFICIT

Honcharuk Dmytro, Matusevych Halyna

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

CLIMATIC FACTORS AND THEIR EFFECT ON THE PRODUCTIVITY OF HIGHBUSH BLUEBERRY (Vaccinium corymbosum L.)

Inna Horodyska, Alla Lishchuk, Yurii Kravchuk, Tetiana Khitrenko

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

EFFICIENCY OF GREEN MANURING AS A FACTOR OF BIOLOGICAL RECLAMATION AND REPRODUCTION OF SOIL FERTILITY IN THE CONDITIONS OF THE RIGHT-BANK FOREST-STEPPE



Yevheniia Tkach, Dmitro Mudrak, Viktoria Starodub

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

ASSESSMENT OF PROTECTED AREAS IN EASTERN PODILLIA USING THE COMPREHENSIVE ANTHROPOGENIC TRANSFORMATION INDEX FOR LANDSCAPES (CATI-L)

Malefiya Ebabu [ac], Zemen Ayalew[b], Kedir Jamal[a], Million Sileshi [a]

[a]School of Agricultural Economics and Agribusiness, Haramaya University, Haramaya, Ethiopia

[b]Department of Agricultural Economics, Bahir Dar University, Bahir Dar, Ethiopia

[c]Department of Agricultural Economics, Dambi Dollo University, Dambi Dollo, Ethiopia

DETERMINANTS AND SEVERITY OF HOUSEHOLD CREDIT DEFAULT IN MICROFINANCE INSTITUTIONS: EMPIRICAL EVIDENCE FROM NORTH WOLLO, ETHIOPIA

Malefiya Ebabu[ac], Zemen Ayalew[b], Kedir Jamal[a], Million Sileshi[a]

[a]School of Agricultural Economics and Agribusiness, Haramaya University, Haramaya, Ethiopia

[b]Department of Agricultural Economics, Bahir Dar University, Bahir Dar, Ethiopia

[c]Department of Agricultural Economics, Dambi Dollo University, Dambi Dollo, Ethiopia

IMPACTS OF RURAL MICROFINANCE CREDIT ON HOUSEHOLD FOOD SECURITY IN NORTH WOLLO, ETHIOPIA



Mykhailo Kliuchevych, Sergey Vigera

Zhytomyr Polytechnic State University. Zhytomyr, Ukraine

METHODOLOGY FOR JUSTIFYING AN INNOVATIVE FIELD CONCERNING LIFE PROCESSES – VITALOGY

Adrienn Czárl Dr.

Metropolitan University, Budapest, Hungary

FROM HUNGARY TO MEXICO AND MALAYSIA: SUSTAINABLE SSC TRANSFORMATION

Halima Saadia ZANOUDA[1], Nour El Houda TOUBI[2]

[1]Laboratory of Hydraulic Developments and Environment, Department of Earth Sciences and Universe, Faculty of Natural and Life Sciences, Earth and Universe Sciences, University of Biskra, Algeria

[2](FSTGAT), University of Constantine 1, Constantine, Algeria

GROUNDWATER QUALITY IN ARID REGIONS: HYDROCHEMICAL CHARACTERIZATION AND DRINKING WATER SUITABILITY IN DJELFA, ALGERIA

Anna Domokos

University of Pannonia, Veszprém, Hungary

DIVERGING CHANGES IN FOREST AREA AND FOREST INTERIORS IN AUSTRIA, HUNGARY, SERBIA AND SLOVAKIA, 2000–2018



V. I. Starodub, V. O. Tsvihun

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

SEGETAL VEGETATION AS A RESERVOIR OF PLANT VIRUSES IN AGROECOSYSTEMS

Viktoriya Tsvihun, Iryna Gumeniuk, Olena Sherstoboeva

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

VIRAL INFECTIONS OF WINTER WHEAT AND THEIR IMPACT ON CROP YIELDS UNDER CLIMATE CHANGE CONDITIONS

Dániel Szabó, Csaba Centeri

Hungarian University of Agriculture and Life Sciences, Dept. of Nature Conservation and Landscape Management, Gödöllő, Hungary

THE EFFECT OF SOIL TEMPERATURE ON EARTHWORMS – A METHODOLOGICAL APPROACH, GÖDÖLLŐ, HUNGARY

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PROVIDING INFORMATION ON SPATIAL HETEROGENEITY OF SOIL PROPERTIES TO PLAN THE PROTECTION OF NATURAL VALUES IN CSUPICS ISLAND, HUNGARY



Hymavathi Singampalli, Dr. Salomi Molathoti

Vignan's Foundation for Science, Technology & Research, Guntur, India

MEASURING THE PSYCHOLOGICAL EFFECTS OF EXTREME HEAT: AN EVIDENCE MAP OF COGNITIVE, AFFECTIVE, AND BEHAVIOURAL OUTCOMES ACROSS POPULATIONS

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SYNERGISTIC EFFECTS OF NANOBIOCHAR AND BIOPREPARATIONS IN THE PRE-SOWING TREATMENT OF SUNFLOWER SEEDS

Puteáni-Holl Adrien

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INVESTIGATION OF THE VAPOUR-PHASE APPLICATION OF ANTIFUNGAL PLANT-DERIVED ESSENTIAL OILS

Oksana Hnativ

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SUSTAINABLE DEVELOPMENT AND DIGITAL TECHNOLOGIES



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A COMPARATIVE REVIEW OF MICROPLASTIC TRANSFORMATION AND MITIGATION TECHNIQUES

Yusuf Sibly Sadik, Mahedi Hasan Khan

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SEASONAL AND TIDAL VARIABILITY IN KAPATAKKHA RIVER HYDROCHEMISTRY: IMPLICATIONS FOR IRRIGATION SUITABILITY IN SOUTHWESTERN BANGLADESH

Márton Tóth

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FROM TRADITIONAL FELTING TO DIGITAL FABRICATION: CONTEMPORARY MANUFACTURING TECHNOLOGIES OF WOOL-FELT INTERIOR PARTITIONS

Ali Raza, Ubaid ur Rehman

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HEAVY TILLAGE AND PESTICIDE USE: HIDDEN THREATS TO SOIL MICROBIAL ACTIVITY IN SOUTHERN PUNJAB



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SUSTAINABLE SOIL MANAGEMENT PRACTICES FOR IMPROVING SOIL HEALTH AND AGRICULTURAL PRODUCTIVITY

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BEYOND NITROGEN MINERALIZATION: SOIL MICROBIAL INDICATORS FOR IMPROVED PESTICIDE ECOTOXICOLOGICAL RISK ASSESSMENT

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EVALUATING ORGANIC AMENDMENTS FOR IMMOBILIZING HEAVY METALS, REDUCING LEACHING, AND MITIGATING PLANT UPTAKE IN WASTEWATER-IRRIGATED SOILS

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GROUNDWATER QUALITY ASSESSMENT & ITS IMPLICATIONS FOR INDUSTRIAL USE IN THE HASSI MESSAOUD REGION, SOUTHEASTERN ALGERIAN SAHARA



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EVALUATION AND MODEL VALIDATION USING A PRECISE AND AUTOMATIC INVERSE PROBLEM SOLVER

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GREEN ECONOMY INSTRUMENTS FOR ADDRESSING ENVIRONMENTAL THREATS POSED BY MICROPLASTIC POLLUTION IN AGRICULTURE

Samaneh Ansarinia

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ENVIRONMENTAL DISSEMINATION OF ANTIBIOTIC RESISTANCE: THE ROLE OF WATER AND WASTEWATER

Ketema Alemu, Tamrat Tesfaye, Serkalem Abnew, Karthikeyan Rajan

Bahir Dar University, EiTEX, Bahir Dar, Ethiopia

UNDERSTANDING CUSTOMER PREFERENCES IN SHOE SOLE DESIGN: A COMPREHENSIVE STUDY ON MATERIAL, COMFORT, AND MARKET TRENDS



HEDJAL Sihem[1], BENAMARA Abdelwaheb[2], MEZERREG Nour El Houda[1], TOUBI Nour El Houda[1]

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INTEGRATED HYDRODYNAMIC AND HYDROCHEMICAL APPROACH FOR THE CHARACTERIZATION OF GROUNDWATER IN THE OUED EMCHEKEL BASIN, NORTHEASTERN ALGERIA

Sohrab Ghaedi

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RETHINKING URBAN ENVIRONMENTAL MANAGEMENT: AIR, WATER, AND WASTE AS ONE SYSTEM

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IMPROVING MUNICIPAL SOLID WASTE MANAGEMENT THROUGH NGO INTERVENTION: EVIDENCE FROM INDIAN CITY



Csaba Centeri, Marcell Lőrincz, Barna Kóródi, Zsigmond Nyáry, Hunor Pető, Gergely Pinczés, Márton Selmeczi-Kovács, Zsolt Biró

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COMPARING THE SOIL PROPERTIES OF A NORWAY SPRUCE PLANTATION WITH A DECIDUOUS FOREST PATCH ALONG THE CSEVICE CREEK, TAR, HUNGARY

Vasyl Martynenko

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SCIENTIFIC MODEL FOR ASSESSING SUCCESSIONS AND MONITORING BILIGERATIVE ECOSYSTEMS OF UKRAINE

Touahri Mahmoud[1], Bouselsal Boualem[2]

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GROUNDWATER QUALITY ASSESSMENT & ITS IMPLICATIONS FOR INDUSTRIAL USE IN THE HASSI MESSAOUD REGION, SOUTHEASTERN ALGERIAN SAHARA

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GEOSPATIAL APPROACHES FOR SOIL FERTILITY ASSESSMENT AND MAPPING IN THE BUNDELKHAND REGION



Abdellah Arfa

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GROUNDWATER SUITABILITY FOR SUSTAINABLE IRRIGATION IN THE ARID BÉNI OUNIF SYNCLINE, SOUTHWESTERN ALGERIA: HYDROCHEMICAL CHARACTERIZATION, SALINITY HAZARDS, AND QUALITY INDICES

Danara Smail

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CYBERSECURITY AND PERSONAL DATA PROTECTION IN THE EUROPEAN UNION: THE ROLE OF THE COURT OF JUSTICE IN BALANCING NATIONAL SECURITY AND FUNDAMENTAL RIGHTS

Erzsébet Monostori

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COASTAL MORPHOLOGICAL AND SEDIMENT QUALITY ASSESSMENT IN THE IMMEDIATE VICINITY OF THE BALATONFENYVES PIER

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COASTAL MORPHOLOGICAL AND SEDIMENT QUALITY ASSESSMENT IN THE IMMEDIATE VICINITY OF THE BALATONFENYVES PIER



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ENVIRONMENTAL IMPACT ASSESSMENT OF MINING WASTE FROM THE ABANDONED SIDI KAMBER MINE (AÏN KECHERA, SKIKDA, ALGERIA): CONTAMINATION ISSUES AND SUSTAINABLE MANAGEMENT PERSPECTIVES.

Ephrem Chekole[1]*, Henok Kassa[1], Bizuneh Adinew[2], and Yohannis Mulugeta[3]

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PRODUCTION AND QUALITY EVALUATION OF ECO-FUEL BRIQUETTES FROM COFFEE BY-PRODUCTS AND MUNICIPAL LIGNOCELLULOSIC WASTES: IMPLICATIONS FOR SUSTAINABLE WASTE UTILIZATION AND DEFORESTATION MITIGATION IN SOUTHWEST ETHIOPIA



10:00 – 10:30

Workshop Special Session:
Environmental Health and Climatic Change

https://teams.microsoft.com/meet/3797211188216372?p=PPF6l3x01MAkmLvjJb

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

Keynote Speaker
Hosam E.A.F. BAYOUMI HAMUDA



10:30 – 11:30

Continuation of Technical Sessions A, B, C, D, E and Poster sessions

https://teams.microsoft.com/meet/3797211188216372?p=PPF6l3x01MAkmLvjJb

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

11:30

Closing Ceremony