



**Online
Scientific Programme
the 14th International Annual
Conference
ICEEE-2023**



*November 16th – 17th, 2023
Obuda University
Budapest, Hungary*



14th ICEEE-2023
International Annual Conference
on
**“Global Environmental Development & Sustainability:
Research, Engineering & Management”**
online
during **November 16 - 17, 2023**
Budapest – Hungary
with
Workshop Special Session:
Environmental Health and Climatic Change
(How humanity can solve climate change, alleviate poverty, and save biodiversity)

Organization

Organizers:

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

The 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
- **Dr. Rita BODÁNÉ-KENDROVICS**
Vice Dean, Director, Institute of Environmental Engineering & Natural Sciences
- **Dr. Edit CSANÁK**
Vice Dean, Director of the Product Design Institute
- **Prof. Dr. Hosam BAYOUMI HAMUDA**
President, International Council of Environmental Engineering Education
Chairman of the Conference



Organizing Committee

- Prof. Dr. Hosam BAYOUMI HAMUDA (Obuda University, Hungary)
- Dr. Ágnes BÁLINT (Obuda University, Hungary)
- Dr. Rita BODÁNÉ-KENDROVICS (Obuda University, Hungary)
- Dr. Krisztina DEMÉNY (Obuda University, Hungary)
- Dr. Lóránt SZABÓ (Obuda University, Hungary)
- Dr. Csaba ÁGOSTON (Obuda University, Hungary)

Scientific Committee

- Prof. Dr. Sadhan Kumar GHOSH (Jadavpur University, Kolkata, India)
- Prof. Dr.h.c. Miroslav BADIDA (Technical University of Košice, Slovakia)
- Prof. Dr. Nedjima BOUZIDI (University of Bejaia, Algeria)
- Prof. Dr. Borbála BIRÓ (Hungarian University of Agriculture and Life Sciences, Hungary)
- Prof. Dr. Bogdana VUJIĆ (University of Novi Sad, Serbia)
- Prof. Dr. József STEIER (Sunwo Plc, Energy Expert, Hungary)
- Prof. Dr. Mihály RÉGER (Obuda University, Hungary)
- Prof. Dr. Ahmed M. MUFTAH (University of Benghazi, Libya)
- Prof. Dr. Hosam BAYOUMI HAMUDA (Obuda University, Hungary)
- Prof. Dr. Faissal AZIZ (Cadi Ayyad University, Morocco)
- Prof. Dr. Léocadie ODOULAMI (University of Abomey-Calavi, Republic of Benin)
- Prof. Dr. Chérifa ABDELBAKI (University of Tlemcen, Algeria)
- Prof. Dr. Samuel M. WANGWE (Daima Associates Limited, Tanzania)
- Prof. Dr. Lyudmila SYMOCHKO (University of Coimbra, Portugal)
- Dr. Abdelwahab TAHSIN (Cairo University, Egypt)
- Dr. Lýdia SOBOTOVÁ (Technical University of Košice, Slovakia)
- Dr. Ruslan MARIYCHUK (Presov University, Slovakia)
- Dr. Edmond HOXHA (Polytechnic University of Tirana, Albania)
- Dr. Gyula VARGA (University of Miskolc, Hungary)
- Dr. Tatjana JUZSAKOVA (Pannon Egyetem, Hungary)
- Dr. Abhijit MITRA (University of Calcutta, India)

Administration Committee

- Ms. Júlia KASZÁS (Obuda University, Hungary)
- Mr. András SZEDER (Obuda University, Hungary)
- Mr. Dávid Márk Kazai (Obuda University, Hungary)
- Ms. Zsuzsa TAMÁSSY (Obuda University, Hungary)

Information about the Conference

- The technical programme of the Conference will consist of plenary, keynote, invited lectures, contributory papers, discussions with senior scientists and poster presentation and at the end, there will be a Workshop.
- Conference Language: **English**
- The Conference is **Free of Charge**
- The ICEEE-2023 Conference will be held through Microsoft Teams.
- The time of the Symposium is related to the **Hungarian time**.



Online (Microsoft Teams)

Time of Presentations

Presentation Type:

- Plenary speaker
- Keynote speaker
- Invited speaker
- Poster

Total Allotted Time:

25 min

15 min

10 min

5 min



Conference: General Scientific Programme 16. 11. 2023 (Thursday)

(Budapest time, which is Central European Time: GMT+1)

Registration online (08:00 am – 09:00 am)
09:00 am – 09:30 am

Opening Ceremony

Plenary Session (09:30 am – 11:30 am)
Lunch Break (11:30 am – 12:15 pm)

For all sessions

Oral Scientific Sessions (12:15 pm – 14:30 pm)
Poster Session (14:30 pm – 16:00 pm)

17 11. 2023 (Friday)

Continuation of the presentation for all sessions

Registration online (08:00 am – 09:00 am)
Plenary & Keynote Session (09:00 am – 11:00 am)

11:00 am – 12:00 pm

Workshop Special Session:

Environmental Health and Climatic Change

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

12:00 p.m. – 12:15 p.m.

Closing ceremony



Details of Frist Day

16th of November 2023 (Thursday)

(Budapest time, which is Central European Time: GMT+1)

09:00 am – 09:30 am

Opening Ceremony

<https://teams.microsoft.com/join/19%3albOkzf3xhDXri929NIwleukJ7NltigXMxafeT-XBOc1%40thread.tacv2/1699440168271?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

– **Prof. Dr. Hosam BAYOUMI HAMUDA**

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

– **Dr. Rita BODÁNE-KENDROVICS**

*Vice Dean, Director, Institute of Environmental Engineering &
Natural Sciences*

– **Dr. Edit CSANÁK**

Vice Dean, Director of the Product Design Institute

– **Dr. László KOLTAI**

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

– **Prof. Dr. László GULÁCSI**

Vice-Rector, Óbuda University

– **Prof. Dr. Sadhan Kumar Ghosh**

Honour guest of the Conference



Frist Day

Details of sessions of the Conference 16th of November 2023 (Thursday)

Plenary Session

(09:30 am – 11:30 am)

Teams join link: <https://teams.microsoft.com/join/19%3albOkzf3xhDXri929NlwleukJ7NltiqXMxzafeT-XBOc1%40thread.tacv2/1699440168271?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

CHAIR: RITA BODÁNÉ-KENDROVICS

09:30 – 10:00

SANNIDHYA KUMAR GHOSH, SADHAN KUMAR GHOSH

Sustainable Development & Circular Economy Research Centre, International Society of Waste Management, Air and Water (ISWMAW), Kolkata, India

Decarbonisation in Construction Sectors towards environmental Sustainability

10:00 – 10:30

BHANU. S. PANWAR¹, VIKASH AHLAWAT², MANTAVYA BISHNOI³, OLHA. A. KHLIESTOVA⁴, KATARZYNA EWA BUCZKOWSKA⁵

^{1,2}Department of Soil Sciences, ³Department of Food Science, CCS Haryana Agricultural University, Hisar, India, ⁴Department of Material Science, Faculty of Mechanical Engineering, Technical University of Liberec, Liberec, Czech Republic, ⁵Department of Materials Technology and Production Systems, Faculty of Mechanical Engineering Lodz University of Technology, Poland

Nickel: Beneficial or toxic element in soil-plant?

10:30 – 11:00

SÁNDOR JÓZSEF ZSARNÓCZAI



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

Carbon dioxide emissions in some developed and developing economies between 1990-2021

11:00 – 11:30

LYUDMYLA SYMOCHKO^{1,2,3}, HOSAM E.A.F. BAYOUMI HAMUDA⁴

¹University of Coimbra, Coimbra, Portugal, ²Uzhhorod National University, Uzhhorod, Ukraine, ³Institute of Agroecology and Environmental Management, NAAS, Kyiv, Ukraine, ⁴Institute of Environmental Engineering and Natural Sciences, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Obuda University, Budapest, Hungary

**Effects of pharmaceutical contamination in the environment:
challenges and ways of solutions**



For all sessions

(Budapest time, which is Central European Time: GMT+1)

Session (A) Healthcare: Risk & Management (12:15 pm – 14:15 pm)

Teams join link: <https://teams.microsoft.com/l/meetup-join/19%3a9c25bde476c24f28ab8810372482593b%40thread.tacv2/1699440528660?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

CHAIR: HOSAM E.A.F. BAYOUMI HAMUDA

KEYNOTE SPEAKERS:

12:15 – 12:30 RAINIEL BRYAN V. DOMASIAN, CHRISTIAN PAUL P. DELA CRUZ, OFELIA B. MANINGAS, KAREN A. MANAIG, VICTORIA E. TAMBAN

Laguna State Polytechnic University, Los Banos Campus, Philippines

Assessment of heavy metal pollution and water quality on handwater pumps towards water safety and security

12:30 – 12:45 RASHMI RATHORE

Working online globally, and physically in different parts of country, Sikkim, India

The fast fashion pandemic-contaminating the global environment

INVITED SPEAKERS

12:45 – 12:55 FILIPPOS SEWUNET ADMASU

KLATASDS-MOE, School of Statistics, East China Normal University, Shanghai, China

Identifying key factors affecting neonatal mortality in Ethiopia using machine learning models



12:55– 13:05 ZUNAIRA TEHSEEN

National Agricultural Research Centre, Islamabad, Pakistan

Plant alleviates carbon tetrachloride-induced nephrotoxicity in rats

13:05 – 13:15 ZUNAIRA TEHSEEN

National Agricultural Research Centre, Islamabad, Pakistan

**Attenuation of Carbon Tetrachloride Induced Nephrotoxicity in Rats by
Indigofera Cordifolia**

13:15– 13:25 SAID NAWAZ KHAN

Hazara University, Abbottabad, Pakistan

**Coprological study for identification of GI Helminth parasite in domestic
ruminants**

13:25 – 13:45 KUNAL JOON

Noida International Institute of Medical Sciences, Greater Noida, India

Virus is living and its treatment

13:45 – 13:55 KUNAL JOON

Noida International Institute of Medical Sciences, Greater Noida, India

How do cell determine at what size to grow

**13:55– 14:05 KAMELIA HESNI BENOTMANE, MEHDI BOUKHEROUFA,
SALSABIL ABBASSI, FERIEL SAKRAOUI-BOUKHEROUFA**

University of Badji Mokhtar, Annaba, Algeria

**Bio-Monitoring of wild boar (SUS SCROFA) in urban and peri-urban
areas of the city of Annaba**



14:05 – 14:15 HOSAM E.A.F. BAYOUMI HAMUDA¹, LYUDMYLA SYMOCHKO^{2,3,4}

¹Institute of Environmental Engineering and Natural Sciences, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Obuda University, Budapest, Hungary, ²University of Coimbra, Coimbra, Portugal, ³Uzhhorod National University, Uzhhorod, Ukraine, ⁴Institute of Agroecology and Environmental Management, NAAS, Kyiv, Ukraine

Probiotic gut microbiomes and mental health disorders



Session (B)

Soil Biology & Agricultural Land Uses

(12:15 pm – 13:40 pm)

Teams join link: <https://teams.microsoft.com/l/meetup-join/19%3a77b459ae226647589c732d352f21d17e%40thread.tacv2/1699440674022?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

CHAIR: LYUDMYLA SYMOCHKO

KEYNOTE SPEAKER:

12:15 – 12:30 ÁGNES BÁLINT¹, GLÓRIA BERINVALNER², VIKTÓRIA KALCSÓ², XUECHU WANG³, CSABA MÉSZÁROS⁴

¹Institute of Environmental Engineering and Natural Sciences, Obuda University, Budapest, Hungary, ²Szent István University, Gödöllő, ³Doctoral School of Environmental Sciences, Hungarian University of Agricultural and Life Sciences, Gödöllő, Hungary, ⁴Institute of Mathematics and Basic Science, Hungarian University of Agricultural and Life Sciences, Gödöllő, Hungary

Effect of acid rain and heavy metal pollution on garden cress (*Lepidium sativum*)

INVITED SPEAKERS:

12:30 – 12:40 ISHRAT GULL

Department of Soil Science, Chaudary Charan Singh Haryana Agricultural University, Hisar, Haryana, India

Importance of fruit tree species in maintaining and improving soil organic matter under semi-arid conditions of India

12:40 – 12:50 ZOUBIR BELHIMER, AZZEDINE BOUZENOUNE, ABDELHAKIM BOUCHAIR, OUMEIMA BENMEBAREK

Geological Engineering Laboratory, Faculty of Natural and Life Sciences, University of Jijel, Jijel, Algeria

Microscopic and mineralogical characterization of the polymetallic mineralizations (FE-CU-BA) of the BENI FELKAÏ MASSIF (Eastern Babors, Northeastern Algeria)



12:50 – 13:00 OLUWOLE OKIKIJESU AFOLABI

Federal University of Technology, Akure, Nigeria

Awareness and uptake of sustainable land management practices by farmers in ONA-ARA local government area, OYO STATE, NIGERIA

13:00 – 13:10 LEDIANË DURMISHI

Doctoral School of Economics and Regional Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

Fostering sustainable farming practices amidst climate change challenges for farmers

13:10 – 13:20 HOSAM E.A.F. BAYOUMI HAMUDA¹, BORBÁLA BIRÓ²

¹Institute of Environmental Engineering and Natural Sciences, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Obuda University, Budapest, Hungary, ²Hungarian University of Agriculture & Life Sciences, Budapest, Hungary

Role of soil fauna as indicators of sustainable agroecosystem management

13:20 – 13:30 HOSAM E.A.F. BAYOUMI HAMUDA

¹Institute of Environmental Engineering and Natural Sciences, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Obuda University, Budapest, Hungary

Agricultural food waste as a resource for high-value products: innovative and sustainable biotechnological approaches

13:30 – 13:40 ZOLTÁN NAÁR

Tokaj-Hegyalja University, Sárospatak, Hungary

Sensitivity of *Trichoderma* population to toxic metal pollution in soils



Session (C)

Physicochemical Properties of Water & Sediments

(12:15 pm – 12:55 pm)

Teams join link: [https://teams.microsoft.com/l/meetup-](https://teams.microsoft.com/l/meetup-join/19%3a88343ffee78c4ff18f4fd2ac8e651493%40thread.tacv2/1699440715052?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

[join/19%3a88343ffee78c4ff18f4fd2ac8e651493%40thread.tacv2/1699440715052?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%3a88343ffee78c4ff18f4fd2ac8e651493%40thread.tacv2/1699440715052?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

CHAIR: CSABA MÉSZÁROS

**12:15 – 12:25 RUQAYAH ALI GRMASHA^{1,2,3,4}, OSAMAH J. AL-SAREJI^{1,2,4},
MÓNKA MEICZINGER¹, CSILLA STENGER-KOVÁCS^{3,5}, KHALID S. HASHIM^{4,7}**

¹Sustainability Solutions Research Lab, Faculty of Engineering, University of Pannonia, Veszprém, Hungary, ²Environmental Research and Studies Center, University of Babylon, Babylon, Al-Hillah, Iraq, ³University of Pannonia, Faculty of Engineering, Center for Natural Science, Research Group of Limnology, Veszprem, Hungary, ⁴The School of Civil and Environmental Engineering graduate, University of New South Wales, Sydney, Kensington NSW 2052, Australia, ⁵ELKH-PE Limnoecology Research Group, Veszprém, Hungary, ⁶School of Civil Engineering and Built Environment, Liverpool John Moores University, UK, ⁷Department of Environmental Engineering, College of Engineering, University of Babylon, Babylon, Al-Hillah, Iraq

**Sustainable system of MWCNTS for multifunctional PAHS and PHACS
removal from different water matrices**

**12:25 – 12:35 OSAMAH J. AL-SAREJI^{1,2}, MÓNKA MEICZINGER¹,
RUQAYAH ALI GRMASHA^{1,2,3}, VIOLA SOMOGYI¹, ENDRE DOMOKOS¹, KHALID
S. HASHIM^{4,5}**

¹Sustainability Solutions Research Lab, Faculty of Engineering, University of Pannonia, Veszprém, Hungary, ²Environmental Research and Studies Center, University of Babylon, Babylon, Iraq, ³Research Group of Limnology, Center for Natural Science, Faculty of Engineering, University of Pannonia, Veszprém, Hungary, ⁴School of Civil Engineering and Built Environment, Liverpool John Moores University, Liverpool, UK, ⁵Department of Environmental Engineering, College of Engineering, University of Babylon, Babylon, Iraq

**Highly efficient removal of pharmaceuticals from water by laccase
immobilized on orange peels**



12:35 – 12:45 TAMÁS KLOKNICER

Óbuda University, Inno-Water Zrt, Budapest

Monitoring biofilm parameters on MBBR technologies with light microscope and image processing

12:45 – 12:55 SEIFU KEBEDE DEBELA

Jimma Institute of Technology, Jimma University, Jimma, Ethiopia

Prioritization of sediment yield at sub-watershed level using SWAT model in Finca'aa watershed, Abay Basin, Ethiopia



Session (D)

Circular Economy Strategy and Waste Management and Sustainable, Energy Research & Applications (12:15 pm – 13:55 pm)

Teams join link: <https://teams.microsoft.com/l/meetup-join/19%3aa46f98e330a04a2c9e2250f298b31105%40thread.tacv2/1699440758358?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

CHAIR: SÁNDOR J. ZSARNÓCZAI

12:15 – 12:25 CHAOJUN YANG¹, AMBERBIR WONDIMU¹, GETACHEW ALEMU², WANG AO¹

¹School of Mechanical Engineering, Jiangsu University, Zhenjiang, China, ²School of Energy and Power Engineering, Jiangsu University, Zhenjiang, China

Numerical investigation on simplified magnetic gear for green energy application

12:25 – 12:35 IZHAR ULLAH

Hazara University Mansehra, Pakistan

Biosystematics and Geospatial Distribution of Spider (*Arachnida: Araneae*) Fauna in District Battagram

12:35 – 12:45 NYÁRY GÁBOR

National University of Public Service, Budapest, Hungary

Green cyber: the convergence of sustainability and cybersecurity in the circular economy

12:45 – 12:55 TAMÁS CSISZÉR

Obuda University, Budapest, Hungary

How qualitology serves environment protection

12:55 – 13:05 RENALDA BERNARD MLAY

Renie Fresh. Arusha, Tanzania

Capsicum value chain analysis in Tanzania



13:05 – 13:15 SÁNDOR J. ZSARNÓCZAI, RITA BODÁNE KENDROVICS

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

Regional development in regions of France in 2020s

13:15 – 13:25 SÁNDOR J. ZSARNÓCZAI, KRISZTINA DEMÉNY

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

Economic conditions in regions of Italy in 2020s

13:25 – 13:35 NATHALIE PANO¹, NADA NEHME², JALAL HALWANI³, KONSTANTINOS KARANTININIS^{3,4}, LAMA EL CHAMI²

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

Lebanese consumers behavior and effect on Food waste

13:35 – 13:45 YEMANE G. ASFAHA, FELEKE ZEWGE, TEKETEL YOHANNES, SHIMELIS KEBEDE

Adama Science and Technology University, Addis Ababa, Ethiopia

Dual-Stage Solar Powered Electrocoagulation and Electrooxidation Process for Textile Wastewater Treatment

13:45 – 13:55 ABDUSSALAM ASHO UR KHALIF¹, FERENC LIGETVÁRI²

¹Doctoral School of Economic and Regional Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, ²Debrecen University, Debrecen, Hungary

Some econometric analysis of main gas emissions from different economic sectors in the past two decades: a case study in Hungary



Session (E)

Air Pollution and Ecosystems & Landscape

(12:15 pm – 14:40 pm)

Teams join link: [https://teams.microsoft.com/l/meetup-](https://teams.microsoft.com/l/meetup-join/19%3a092b70a5fe2c41869db80e2aa566e232%40thread.tacv2/1699440989382?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

[join/19%3a092b70a5fe2c41869db80e2aa566e232%40thread.tacv2/1699440989382?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%3a092b70a5fe2c41869db80e2aa566e232%40thread.tacv2/1699440989382?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d)

CHAIR: ÁGNES BÁLINT

KEYNOTE SPEAKERS:

12:15 – 12:30 RAHUL KUMAR

CCS Haryana Agricultural University, College of Agriculture, Rewari, Haryana, India

Temporal and spatial impact of lockdown during COVID-19 on air quality index in Haryana, India

12:30 – 12:45 SANA AHMED¹, SUFIA ZAMAN¹, ABHIJIT MITRA²

¹Department of Oceanography, Techno India University, West Bengal, EM 4 Salt Lake, Sector V, Kolkata, India, ²Department of Marine Science, University of Calcutta, Kolkata, India

Near surface carbon dioxide level and carbon storage potential of the dominant trees of Kolkata, India

12:45 – 13:00 BELKASIM KHAMEISS^{1,2}, AHMED MUFTAH², MENAM ABDELGALIL³

¹Kansas Geological Survey, Lawrence, KS, United States, ²Faculty of Science, Earth Sciences Department, University of Benghazi, Benghazi, Libya, ³Department of Geology, University of Tubroq, Libya.

Tubroq Area, Libya: Implications for coral diversity and biogeography

INVITED SPEAKERS:

13:00 – 13:10 PAWEŁ ŚWISŁOWSKI, MAŁGORZATA RAJFUR

University of Opole, Opole, Poland

The use of mosses in active biomonitoring in urban areas



13:10 – 13:20 SLIMANI CHAHID, FARHAOUI MOHAMED

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

Role of the environment on real estate valorisation

13:20 – 13:30 BETHELHEM GEBREMEDHIN GEBREEGZIABHER

Ambo University, Ambo, Ethiopia

Ecosystem based flood mitigation strategy and livelihood improvement for human settlements on the hilly areas of Addis Ababa; in the case of Kechene Meketeya distric

13:30 – 13:40 BETHELHEM GEBREMEDHIN GEBREEGZIABHER

Ambo University, Ambo, Ethiopia

Identification, mapping and assessment of hillside flood vulnerability; In the case of Kechene Meketeya distric, Addis Ababa

13:40 – 13:50 SIMRET AREGA, ALAZAR ASSEFA

Ambo university, Ambo, Ethiopia

Characterization, classification and quantification of runoff, in the case of lower Kebena River watershed, Addis Ababa, Ethiopia

13:50 – 14:00 SIMRET AREGA, ALAZAR ASSEFA

Ambo university, Ambo, Ethiopia

Micro-watershed level blue-green infrastructure as flood control solution at lower Kebena River watershed

14:00 – 14:10 NORBERT BERCZ

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

Hungary on green path



14:10 – 14:20 YANINA L. ROMERO¹, JANETTE BESSEMBINDER², NICK C. VAN DE GIESEN³, FRANS H.M. VAN DE VEN⁴

¹Beuningen, The Netherlands, ²Climate Services, Royal Netherlands, Meteorological Institute, De Bilt, The Netherlands, ³Water Management of the Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands, ⁴Water Management of the Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands

A Relation Between Extreme Daily Precipitation And Extreme Short Term Precipitation

14:20 – 14:30 RUDOLF SZABÓ¹, LÓRÁNT SZABÓ²

¹Rejtő Sándor Foundation, Budapest, Hungary, ²Institute of Environmental Engineering and Natural Sciences, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Budapest, Hungary

World's lightweight future

14:30 – 14:40 ZOLTÁN BORSI, TIBOR TELEKESI, KATALIN A. FŐGLEIN

KTI Institute for Transport Sciences and Logistics Nonprofit Ltd, Budapest, Hungary

Development of particle measurement technology at periodical technical inspection (PTI)



Poster Session

(14:30 pm – 16:00 pm)

Teams join link <https://teams.microsoft.com/l/meetup-join/19%3albOkzf3xhDXri929NlwleukJ7NltiqXMxafeT-XBOc1%40thread.tacv2/1699440256243?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

MODERATOR: HOSAM E.A.F. BAYOUMI HAMUDA

14:30 – 14:35 POOJA, SUSHIL AHLAWAT, REENA CHAUHAN, POOJA, ANKISHA, NISHA KUMARI

Choudhary Charan Singh Haryana Agricultural University, Hisar, Haryana, India

Residue, dissipation dynamics, decontamination, and risk assessment of chlorantraniliprole in okra and soil using GC-MS/MS

14:35 – 14:40 SUSHIL AHLAWAT, REENA CHAUHAN

Department of Entomology, College of Agriculture, CCS Haryana Agricultural University, Hisar, India

Tudy of readymix formulation of tebuconazole 50% + trifloxystrobin 25% wg in soil at harvest time

14:40 – 14:45 ANKISHA, SRIDEVI TALLAPRAGADA, R. K. CHUGH, POOJA, POOJA POOJA

Department of Botany and Plant Physiology, Choudhary Charan Singh Haryana Agricultural University, Hisar, India

Role of arbuscular mycorrhizal fungi in alleviating heavy metal stress: a review

14:45 – 14:50 ISHRAT GULL

Department of Soil Science, Chaudary Charan Singh Haryana Agricultural University, Hisar, Haryana, India

Changes in soil properties under fruit tree species in semi-arid zone of India



14:50 – 14:55 SHABNAM MORADI, MOHAMADREZA SEIFI, HESHMAT OMIDI

Agriculture Department, Arak, Iran

The effect of phosphorus, potassium, and humic acid fertilizers on some growth, functional, and physiological traits of chicory (*Cichorium intybus* L.) under climatic conditions in Arak

14:55 – 15:00 SARA MOGHNIE

American University of the Middle East, Kuwait, Kuwait

Evaluation of burial behavior of geomaterials in peatlands using the application of unsupervised learning tool

15:00 – 15:05 CRISTINA GABRIELA MITINCU

University of Bucharest, Bucharest, Romania

Energy transition in European Union: Challenges and opportunities to achieve sustainable development goals (SDGS)

15:05 – 15:10 CSABA CENTERI, ALEXANDRA KRUSE, PIERRE-FRANCOIS TOULZE

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

Transhumance as sustainable food resource

15:10 – 15:15 CSABA CENTERI, VIKTÓRIA VONA, MÁRTON VONA, ZSOLT BIRÓ

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

New data on moles' impacts on agricultural soils

15:15– 15:20 WELELA MEKA KEDIR



Mattu University, Mattu, Ethiopia

Biopolymer for active biodegradable food packaging

15:20 – 15:25 ABDELFETTAH GHERIB, NABIL CHARCHAR, OUSSAMA BELAHMADI, ALA ABDESSAMED, INÊS DOMINGUES

Laboratory of Ecotoxicology and Environmental Biomonitoring, Biotechnology Research Centre, Constantine, Algeria; Laboratory of Biology and Environment, Department of Biology and Plant Ecology, University of Brothers Mentouri Constantine 1, Constantine, Algeria; Department of Biology & Centro de Estudos do Ambiente e do Mar, University of Aveiro, Campus Universitário de Santiago, Aveiro, Portugal

Developmental, behavioral and biochemical markers of anthracene and Pb²⁺ exposure to zebrafish eleuthero-embryos

15:25– 15:30 WELELA MEKA KEDIR

Mattu University, Mattu, Ethiopia

Biopolymer for active biodegradable food packaging

15:25 – 15:30 MEKUANINT GETACHEW¹, HENOK MULATU²

Hirna Regional Veterinary Laboratory, Oromia Regional State, Ethiopia, ²Habro District Livestock and Fisheries Development Office, Oromia Regional State, Gelemso, Ethiopia

Review on the impact of climate change on approach to epidemiology of livestock diseases control

15:30 – 15:35 KENZA IRINISLIMANE

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

Representation of industrial risk

15:35 – 15:40 RENÁTA CSIZMADIA, 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*

Ecotoxicological impacts of fungicides on beneficial soil microorganisms

15:40 – 15:45 IZABELLA VARGA, 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*

A bibliometric analysis on synthetic cannabinoids and their adverse effects on human health

15:45 – 15:50 FRUZZINA KIS-PRUMIK KOVÁCSNÉ, 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*

Microbial antagonists against phytopathogens: In vitro experiment

15:50 – 15:55 BARBARA KÖVICS, 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*

Distribution Types of Lichens in Hungary: Comparison of lichen in Eastern Bakony and Debrecen Forest

15:55 – 16:00 JUHÁSZ BOGLÁRKA, 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*

Soil microbiomes inoculants for sustainable agriculture: Limitations and opportunities for plant growth



Details of Second Day

17th of November 2023 (Friday)

Plenary and Keynote Session

(09:00 am – 11:00 am)

Teams join link: <https://teams.microsoft.com/l/meetup-join/19%3albOkzf3xhDXri929NIwleukJ7NltiqXMxzafeT-XBOc1%40thread.tacv2/1699812082165?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

CHAIR: ÁGNES BÁLINT

09:00 – 09:30

BORBÁLA BIRÓ¹, HOSAM E.A.F. BAYOUMI HAMUDA²

¹Department of Agrienvironmental Studies, Hungarian University of Agriculture & Life Sciences, Budapest, Hungary, ²Institute of Environmental Engineering and Natural Sciences, Rejto Sandor Faculty of Light Industry and Environmental Engineering, Obuda University, Budapest, Hungary

Soil health bioindicators in European agroecosystems

09:30 – 10:00

SMAINE CHELLAT¹, ABDERRAHMANE ABDERRAHMANE², ABDELMALEK SAIDI², MESSAOUD HACINI², AHCENE BOUREFIS¹

¹Geology and Environment Laboratory, University of Constantine 1, Constantine, Algeria, ²Geology of Saharan laboratory, Department of earth sciences, Faculty of Hydrocarbon. University Kasdi Merbah Ouargla, Algeria

A case study of nuclear contamination and agricultural adaptation in the sahara desert: The environmental challenges of Reggane city

10:00 – 10:30

LEOCADIE ODOULAMI, RICHARD KOUKOU, HENRI VODOUNON TOTIN

University of Abomey-Calavi, Bénin, Abomey-Calavi, Bénin

Problematic of drain sludge in Grand-Nokoue in the Republic of Benin (West Africa)



KEYNOTE SPEAKER:

10:30 – 10:45 VIKTOR SEBESTYÉN

University of Pannonia, Veszprém, Hungary

Sustainability efforts at the University of Pannonia

10:45 – 11:00 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*

**Attentions on future exploration on impacts of soil use on food, water,
climate change, human health and biodiversity**

11:00 am – 12:00 pm

Workshop Special Session

Teams join link: <https://teams.microsoft.com/l/meetup-join/19%3albOkzf3xhDXri929NlwleukJ7NltiqXMxafeT-XBOc1%40thread.tacv2/1699812082165?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>

MODERATOR: HOSAM E.A.F. BAYOUMI HAMUDA

Topic: Environmental Health and Climatic Change

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

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*

**Application impacts of wastewater solid sludge in agriculture on soil
fertility, innovation technology and life cycle assessment under climatic
changes**



12:00 p.m. – 12:15 p.m.

Closing ceremony

Teams join link: <https://teams.microsoft.com/l/meetup-join/19%3albOkzf3xhDXri929NlwleukJ7NltiqXMxafeT-XBOc1%40thread.tacv2/1699812082165?context=%7b%22Tid%22%3a%221d6a56fa-705a-4bbc-8004-67a21d5e9b97%22%2c%22Oid%22%3a%22f4ad040e-f193-4400-b776-a32473cf7510%22%7d>