

# Scientific Program of the VI<sup>th</sup> International Symposium-2022



*Biosphere and Environmental Safety  
VI.th International Symposium-2022*

**May 5<sup>th</sup> – 6<sup>th</sup>, 2022**  
**Óbuda University**  
**Budapest, Hungary**

# Attention:

- ✚ The Symposium-2022 will be held through **Microsoft Teams**.
- ✚ To join the Symposium:
  - There is a short guide with useful information about how to use the Microsoft Teams during the Symposium
  - The participants will have the link of the Symposium
  - The time of the Symposium is related to the **Hungarian time**.
- ✚ Please check the time with your time at home

## Time of Oral 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**

**5<sup>th</sup> of May 2022 (Thursday)**

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

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

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

***Dr. Rita BODÁNÉ-KENDROVICS***

*Director, Institute of Environmental Engineering & Natural Sciences*

***Dr. Koltai László***

*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 Symposium*

09:30 – 10:20

## Plenary Session

*Chair of the Session:* Rita BODÁNÉ-KENDROVICS

*PL1 09:30 – 09:55*

1. Sadhan Kumar GHOSH<sup>1,2</sup>

<sup>1</sup>Department of Mechanical Engineering, Jadavpur University, Kolkata India, <sup>2</sup>School of Energy Studies, Jadavpur University, Kolkata, India, <sup>2</sup>International Society of Waste Management, Air and Water (ISWMAW)

**ENVIRONMENTAL & HEALTH SAFETY BY ADOPTING CIRCULAR ECONOMY**

*PL2 09:55 – 10:20*

2. Borbala BIRÓ

Department of Soil Environmental Studies, University of Agriculture and Life Sciences, Budapest, Hungary

**Symbiosis as a tool to soil-, plant- and environmental health**

10:20 – 10:30 *Break*

10:30 – 12:30

## Keynote Session

*Chair of the Session:* Borbala BIRÓ

**KL1 10:30 – 10:50**

3. Léocadie ODOULAMI, Grégoire A. BEWA

Laboratoire Pierre PAGNEY, Climat, Eau, Ecosystème et Développement

LACEEDE/DGAT/FASHS/<sup>1</sup>Université d'Abomey-Calavi (UAC), Cotonou

<sup>2</sup>DGAT/FLASH/Université de Parakou (UP), République du Bénin (Afrique de l'Ouest):

**Hygiene and sanitation problematic in primary school of Allada commune in Benin Republic (West Africa)**

**KL2 10:50 – 11:10**

4. Edit CSANÁK

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

**Arts and nature: the contribution of artists to understanding of the world and the development of natural sciences**

**KL3 11:10 – 11:30**

**5. Faissal AZIZ<sup>1,2</sup>**

*1Laboratory of Water, Biodiversity, and Climate Change, 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*

***Promotion of smart irrigation systems in the Mena region using superabsorbent biopolymers***

**KL4 11:30 – 11:50**

**6. Sándor J. ZSARNÓCZAI**

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

***The agricultural production concerning subsidies in Hungary in period of 2008-2020***

**KL5 11:50 – 12:10**

**7. Thamer Adnan ABDULLAH<sup>1</sup>, Tatjana JUZSAKOVA<sup>1</sup>, Ali Dawood SALMAN<sup>1</sup>, Viktor SEBESTYÉN<sup>1</sup>, Domokos ENDRE<sup>1</sup>**

*1Sustainability Solutions Research Lab, Bio-, Environmental and Chemical Engineering Research and Development Center, University of Pannonia, Veszprem 8201, Hungary*

***MWCNTs Based Nanocomposites for The Removal of Hydrocarbons from Water***

**KL6 12:10 – 12:30**

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

*Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary*

***Environmental health and biotechnology***

**12:30 – 13:30**      ***Lunch Break***

**13:30 – 14:30**      **Technical Session 1**

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

**9. Ajinkya MAHALE, Vrishaali VYAS, Prakash RAO**

*Symbiosis Institute of International Business, Symbiosis International (Deemed University), Hinjewadi, Pune, Maharashtra, India*

***A review of sustainability reporting practices in selected Indian consumer packaged goods sector***

10. Abdelmalek GOUMIH<sup>1</sup>, Mariam EL ADNANI<sup>2</sup>, Rachid HAKKOU<sup>3</sup>, Mostafa BENZAAZOUA<sup>4</sup>, Salah OUHAMDOUCH<sup>5,6</sup>

<sup>1</sup>Laboratoire GéoSciences Semlalia, Département de géologie, Faculté des Sciences Semlalia, Université Cadi Ayyad, Marrakech, Morocco, <sup>2</sup>Ecole Nationale Supérieure des Mines de Rabat, Avenue Hadj Ahmed Cherkaoui, Agdal, Rabat, Morocco, <sup>3</sup>Laboratoire de Chimie des Matériaux et de l'Environnement, Faculté des Sciences et Techniques, Université Cadi Ayyad, Marrakech, Morocco, <sup>4</sup>Université du Québec en Abitibi Témiscamingue, Boul. de l'Université, Rouyn-Noranda. QC J9X 5E4, Canada, <sup>5</sup>Faculté des Sciences Semlalia, Université Cadi Ayyad, Marrakech, Morocco, <sup>6</sup>Applied Sciences Laboratory, Water and Environment Management Team, National School of Applied Sciences, Abdelmalek Essaadi University, Al Hoceima Morocco

***Integrated management of mining rejects: Case of the abandoned mine of Sidi Bou-Othmane mine (Central Morocco)***

11. Emőke IMRE<sup>1</sup>, Zsombor ILLÉS<sup>2</sup>, Ágnes BÁLINT<sup>3</sup>, Henry GONZALES<sup>3</sup>, Levente RÉPÁSSY<sup>3</sup>, Dang Thi Quynh HUONG<sup>3</sup>, Lamas Lopez LIZETH<sup>3</sup>, Daniel BARRETO<sup>4</sup>, Giulia GUIDA<sup>5</sup>, Maria DATCHEVA<sup>6</sup>, Wiebke BAILLE<sup>7</sup>, Vijay P. SHINGH<sup>8</sup>

<sup>1</sup>Óbuda University, Bánki Donát Faculty, and Hydro-Bio-Mechanical Systems Research Center, Budapest, Hungary, <sup>2</sup>Department of Engineering Geology and Geotechnics, Budapest University of Technology and Economics, Budapest, Hungary, <sup>3</sup>Institute of Environmental Engineering and Natural Sciences, Óbuda University, Budapest, Hungary,, <sup>4</sup>Edinburgh Napier University, U.K, <sup>5</sup>Università di Roma Tor Vergata, <sup>6</sup>Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, Bulgaria, <sup>7</sup>Ruhr University Bochum, Germany <sup>8</sup>Dep. of Biological and Agricultural Engineering, Texas A&M University, USA.

***The permeability variables of granular matter***

12. Amina HAFSI<sup>1</sup>, Ahsene BOUREFIS<sup>1</sup>, Farès KESSASRA<sup>2</sup>, Abdellah BOUSHABA<sup>3</sup>

<sup>1</sup>Affiliation Department of Geology and Environment, University les Frères Mentouri, Constantine 1, <sup>2</sup>Laboratory of Geological Engineering, Team 3 "Geology", University of Jijel, Algeria, Department of Earth and Universe Sciences, University of Jijel, Central Campus, Algeria, <sup>3</sup>Department of Geology, Sidi Mohamed Benabdellah University, Fes, Morocco

***Assessment of soil pollution by heavy metal in industrial area of Skikda city North Algeria***

13. Amina BOUSSELIOU<sup>1</sup>, I. BOUDRAA<sup>2,3</sup>, S. CHELLAT<sup>1</sup>, H. BELAIDI<sup>1</sup>

<sup>1</sup>Geology and Environment Laboratory, University of Constantine 1, Road Ain El Bey Zouaghi Slimane Constantine Algeria, <sup>2</sup>Constantine 1 University, Department of Chemistry, Pollution and Water Treatment Laboratory, Constantine1, Algeria. <sup>3</sup>Environmental Molecular and Structural Chemistry Research University Constantine1, Algeria

***Study and evaluation of the pollution in ETM in the valley of Oued Saf-Saf and Oued Zeramna, Skikda, North-East of Algeria***

14. Asmaa RHAZOUANI<sup>1,2,3</sup>, Halima GAMRANI<sup>2</sup>, Khalid AZIZ<sup>4</sup>, Mustapha My BOUYATAS<sup>2</sup>, Lhoucine GEBRATI<sup>5</sup>, Faissal AZIZ<sup>1,3</sup>

<sup>1</sup>Laboratory of Water, Biodiversity & Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco, <sup>2</sup>Team of Neurosciences, Pharmacology and Environment, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco. <sup>3</sup>National Centre for Studies and Research on Water and Energy, Faculty of Technical Sciences, Cadi Ayyad University, Marrakech, Morocco. <sup>4</sup>Laboratory of Materials, Biotechnology, and Valorization of Natural Resources, Department of Chemistry, Faculty of Sciences, University Ibn Zohr, Agadir, Morocco, <sup>5</sup>Laboratory of Materials, Processes, Environment and Quality, Cadi Ayyad University, Safi, Morocco

**Graphene oxide induces a modification of the peroxidase and MDA levels in male mice**

15. Ali Dawood SALMAN<sup>1,2</sup>, Tatjana JUZSAKOVA<sup>1</sup>, Moayyed G. JALHOOM<sup>3</sup>, Phuoc-Cuong LE<sup>4,5</sup>, Mohammad A. AL-MAYYAH<sup>2</sup>, Thamer Adnan ABDULLAH<sup>1</sup>, Endre DOMOKOS<sup>1</sup>

<sup>1</sup>Sustainability Solutions Research Lab, University of Pannonia, Veszprém, Hungary, <sup>2</sup>Department of Chemical and Petroleum Refining Engineering /College of Oil and Gas Engineering, Basra University, <sup>3</sup>Department of Production Engineering and Minerals, University of Technology Baghdad-Iraq, <sup>4</sup>Institute of Research and Development, Duy Tan University, Danang, Vietnam, <sup>5</sup>Faculty of Environmental and Chemical Engineering, Duy Tan University, Danang, Vietnam

**Synthesis and surface modification of magnetic Fe<sub>3</sub>O<sub>4</sub>/SiO<sub>2</sub>/OPCS nanoparticles and its application in uptake of scandium (III) ions from acidic media**

14:30 – 15:30

## Technical Session 2

Chair of the Session: Emőke IMRE

16. Hassni BELAIDI<sup>1</sup>, A. BOUSSELIYOU<sup>1</sup>, S. KITONI<sup>2</sup>, S. CHELLAT<sup>1</sup>

<sup>1</sup>Geology and Environment Laboratory, University of Constantine 1, Road Ain El Bey Zouaghi Slimane Constantine Algeria, <sup>2</sup>Department of Process Engineering, Faculty of Process Engineering. University Salah Bounider Constantine 3, Algeria

**Feldspar's role in providing soil with macronutrients K and Ca (Example: Wadi El-Annab Northeast of Algeria)**

17. Halima BOUDRA<sup>1</sup>, FBOUAICHA<sup>1</sup>, W. MELOUAH<sup>2</sup>, M. BOUKHATEM<sup>1</sup>

<sup>1</sup>Geology and Environment Laboratory, University of Constantine 1, Road Ain El Bey Zouaghi Slimane Constantine, Algeria, <sup>2</sup>Faculty of Hydrocarbons, Renewable Energies and Earth and Universe Sciences Kasdi Merbah University, Ouargla, Algeria

**Hydrogeochemical assessment of thermal waters from Souk Ahras geothermal system, North East of Algeria**

18. Ghizlane AKHOUY<sup>1,2</sup>, Lhoucine Gebrati<sup>1,2</sup>, Khalid AZIZ<sup>3</sup>, Faissal AZIZ<sup>2,4</sup>  
<sup>1</sup>Laboratory of Materials, Processes, Environment and Quality, Cadi Ayyad University Safi, Morocco. <sup>2</sup>National Center for Research and Studies on Water and Energy (CNEREE), Cadi Ayyad University, Marrakech, Morocco. <sup>3</sup>Laboratory of Materials, Biotechnology, and Valorization of Natural Resources, Department of Chemistry, Faculty of Sciences, University Ibn Zohr, Agadir, Morocco, <sup>4</sup>Laboratory of Water, Biodiversity, and Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco  
**Bio-based and biodegradable plastics derived from olive pomace**
19. Imane HAYDARI<sup>1,2</sup>, Laila MANDI<sup>1,2</sup>, Amina LISSANEDDINE<sup>1,2</sup>, Khalid AZIZ<sup>3</sup>, Naaila OUAZZANI<sup>1,2</sup>, Faissal AZIZ<sup>1,2</sup>  
<sup>1</sup>Laboratory of Water, Biodiversity, and Climate Change, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco, <sup>2</sup>National Center for Research and Studies on Water and Energy, Cadi Ayyad University, Marrakech, Morocco, <sup>3</sup>Laboratory of Materials, Biotechnology, and Valorization of Natural Resources, Department of Chemistry, Faculty of Sciences, University Ibn Zohr, Agadir, Morocco  
**Novel low-cost bio-sorbent from olive pomace to adsorption of phenolic compounds from olive oil mill wastewater**
20. Selma HADEF, Faouzi ZAHI, Taha Hocine DEBIECHE, Abdelmalek DROUCHE  
Geological Engineering Laboratory (LGG), University of Mohamed Seddik Benyahia - Jijel, Algeria  
**Evaluation of surface water quality for drinking purposes: A case of Guenitra Dam (North-East Algeria)**
21. Jihane BAGHOR<sup>1</sup>, Faissal AZIZ<sup>2</sup>, Jamal MABROUKI<sup>1</sup>, Souad EL HAJJAJI<sup>1</sup>  
<sup>1</sup>Laboratory of Spectroscopy, Molecular Modeling, Materials, Nanomaterial, Water and Environment, CERNE2D, Mohammed V University in Rabat, Faculty of Science, Avenue Ibn Battouta, BP1014, Agdal, Rabat, Morocco, <sup>2</sup>Laboratory of Water, Biodiversity, and climate change, Faculty of sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco  
**The toxicological effects of microplastics on the environment and human health**

15:30 – 16:30

### Technical Session 3

Chair of the Session: Zoltán JUVANCZ

22. Rudolf SZABÓ<sup>1</sup>, Lóránt SZABÓ<sup>2</sup>  
<sup>1</sup>Rejtő Sándor Foundation, Budapest, Hungary, <sup>2</sup>Institute of Environmental Protection Engineering, Óbuda University, Budapest, Hungary  
**Carbon fiber, the black wonder**



23. **Jovito L. OPEÑA<sup>1,2</sup>, Gábor Endre HALASZ<sup>2</sup>, József Tibor ÁRGYELÁN<sup>3</sup>, Mark Kalman HORVATH<sup>2</sup>**  
*<sup>1</sup>Marinduque State College, <sup>1</sup>Marinduque State College, Boac, Maridduque Philippines, <sup>2</sup>Department of Chemistry, Institute of Environmental Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, <sup>3</sup>Nitrokémia PLC, Balatonfüzfő, Hungary): 3*  
***Phytoremediation of potential toxic elements by native tree species in mined- spoiled soils in mátraszentimre, Hungary***
24. **Khalid AZIZ<sup>1</sup>, Rachid MAMOUNI<sup>1</sup>, Nabil SAFFAJ<sup>1</sup>, Faissal AZIZ<sup>2</sup>**  
*<sup>1</sup>Laboratory of Biotechnology, Materials and Environment, Faculty of Sciences, Ibn Zohr University, Agadir, Morocco, <sup>2</sup>Laboratory of Water, Biodiversity & Climate Changes, Faculty of Science Semlalia, Cadi Ayyad University, Marrakech, Morocco*  
***A novel hydrogel beads based copper-doped Cerastoderma edule shells for highly fungicide sorption from groundwater***
25. **Karim SBIHI<sup>1,2</sup>, Sara EL HAMJI<sup>2,3</sup>, Siham LGHOUL<sup>4</sup>, Khalid AZIZ<sup>5</sup>, Nouredine EL BARAKA<sup>5</sup>, Faissal AZIZ<sup>2,3</sup>**  
*<sup>1</sup>Laboratory of Biotechnology, Materials and Environment, Natural Substances and Environment Team, Polydisciplinaire Faculty of Taroudant, University Ibn Zohr, Morocco, <sup>2</sup>National Centre for Research and Study on Water and Energy, University Cadi Ayyad, Marrakech, Morocco. <sup>3</sup>Laboratory of Water, Biodiversity & Climate Changes, Semlalia Faculty of Sciences, Marrakech, Morocco, <sup>4</sup>Department of Biology, Faculty of Sciences Semlalia, University of Cadi-Ayyad, Marrakech, Morocco, <sup>5</sup>Laboratory of Materials and Environment, Faculty of Sciences, Ibn Zohr University, Agadir, Morocco*  
***Potential of local freshwater microalgae Craticula subminuscula for hexavalent chromium removals: Tolerance, optimization, kinetics and isotherm studies***
26. **Meriem BOUKHATEM, N. CHABOUR, F. BOUAICHA, R. KOURICHE, H. BOUDRA**  
*Geology and Environment Laboratory, University des Frères mentouri Constantine 1, Road Ain El Bey Zouaghi Slimane Constantine, Algeria*  
***Environmental impact of barite wastes from the Ain Mimoun mine, Khenchela, North-East Algeria***
27. **Mohammad MOHAMMAD**  
*Institute of Marketing and Management, Faculty of Economics/ Hungarian University of Agriculture and Life Sciences (MATE) Kaposvár Campus, Kaposvár, Hungary*  
***The role of social media blogs in influencing dairy functional foods and healthy lifestyle in Hungary***

16:30 – 17:30

## Technical Session 4

Chair of the Session: *Sándor J. ZSARNÓCZAI*

**28. Mohammad MOHAMMAD**

*Institute of Marketing and Management, Faculty of Economics/ Hungarian University of Agriculture and Life Sciences, Kaposvár Campus, Kaposvár, Hungary)*

***Impact of healthy behaviour on consumer attitude toward dairy functional foods***

**29. Nawal HICHAMI<sup>1</sup>, Mohamed ZNARI<sup>2</sup>**

*<sup>1</sup>Laboratory of Biotechnology & Sustainable Development of Natural Resources.*

*Polydisciplinary Faculty of Beni Mellal, Sultan Mulay Slimane University, Mghila, Beni Mellal. Morocco, <sup>2</sup>Natural History Museum of Marrakech, Cadi Ayyad University, Ave Allal El Fassi, Marrakech, Morocco*

***Management plan for a declining population of the Souss valley tortoise in an arid steppe-land of West-Central Morocco***

**30. Sadhan Kumar GHOSH<sup>1,3</sup>, Somnath PODDAR<sup>2</sup>**

*<sup>1</sup>Department of Mechanical Engineering, Jadavpur University, Kolkata, India, <sup>2</sup>School of Environmental Studies, Jadavpur University, Kolkata, India, <sup>3</sup>International Society of Waste Management, Air and Water (ISWMAW), India*

***Impact of using refuse-derived fuel in co-processing towards the quality of clinker and cement***

**31. Bitrus Eniyekenimi DAUKERE<sup>1</sup>, Olatunde Isaac OLANIYI<sup>2</sup>**

*<sup>1</sup>Department of Geography, Nigerian Army College of Education, Ilorin, Nigeria, <sup>2</sup>Department of Political Science, Nigerian Army College of Education, Ilorin, Nigeria*

***National security: Interplay of environmental, human and food (in)securities in Nigeria***

**32. Mythili MADHUSUDHAN<sup>1</sup>, N.K.AMBUJAM<sup>2</sup>**

*<sup>1</sup>School of Architecture, Meenakshi College of Engineering, <sup>2</sup>Centre for Water Resources, Tamilnadu, India*

***An assessment of the present condition of a wetland in a developing city: the case of Pallikaranai marsh, Chennai, India***

**33. Rima KIFOUCHE, H. BOUSBAA, F. BOUAICHA, H. SHOUT**

*Laboratoire de géologie et environnement, Université Constantine 1, Route Ain El Bey Zouaghi Slimane Constantine, Algeria*

***Prospects and geothermal potential of Mila***

17:30 – 18:30

**Technical Session 5**

*Chair of the Session:*            **Lóránt SZABÓ**

**34. Mythili MADHUSUDHAN<sup>1</sup>, N. K. AMBUJAM<sup>2</sup>**

<sup>1</sup>School of Architecture, Meenakshi College of Engineering, <sup>2</sup>Centre for Water Resources, Tamilnadu, India

***The case of the shrinking Pallikaranai marsh, Chennai, India: Environmental economics to the rescue?***

**35. Sándor J. ZSARNÓCZAI**

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

***Innovation by subsidies in agricultural production in Hungary in 2010-2020s***

**36. Nidal Zrikam<sup>1</sup>, Lahcen Ouahmane<sup>1</sup> and Faissal Aziz<sup>2,3</sup>**

<sup>1</sup>Laboratory of Microbial Biotechnologies, Agro-Sciences and Environment, Labeled Research Unit-CNRST N° 4., Cadi Ayyad University, Marrakesh, Morocco, <sup>2</sup>National Centre for Research and Study on Water and Energy, University Cadi Ayyad, Marrakech, Morocco, <sup>3</sup>Laboratory of Water, Biodiversity & Climate Changes, Semlalia Faculty of Sciences, Marrakech, Morocco

***Mycorrhization of aleppo pine (*Pinus halepensis*) seedlings by inoculation with three different ectomycorrhizae species***

**37. Sara El HAMJI<sup>1,2</sup>, Karim SBIHI<sup>2,3</sup>, Jihen ELLEUCH<sup>4</sup>, Naaila OUZZANI<sup>1,2</sup>, Imen FENDRI<sup>4</sup>, Slim ABDELKAFI<sup>4</sup>, Brahim OUDRA<sup>1</sup>, Faissal AZIZ<sup>1,2</sup>**

<sup>1</sup>Laboratory of Water, Biodiversity & Climate Changes, Faculty of Science 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 Biotechnology, Materials and Environment, Natural Substances and Environment Team, Polydisciplinaire Faculty of Taroudant, University Ibn Zohr, Morocco, <sup>4</sup>Unité de Biotechnologie des Algues, Ecole Nationale d'ingénieurs de Sfax, Université de Sfax, Tunisie

***Toxicity and removal of phenolic compounds by the freshwater diatom *Craticula subminuscula****

**38. Yanina L. ROMERO<sup>1</sup>, J. BESSEMBINDER<sup>2</sup>, N.C. van de GIESEN<sup>3</sup>, F.H.M. van de VEN<sup>3</sup>**

<sup>1</sup>Beuningen, the Netherlands, <sup>2</sup>Climate Services, Royal Netherlands Meteorological Institute, De Bilt, the Netherlands, <sup>3</sup>Water Management, Delft University of Technology, Delft, the Netherlands

***A relation between extreme daily precipitation and extreme short term precipitation***

**39. Smaine CHELLAT<sup>1</sup>, L. BOUDRAA<sup>1</sup>, R. ZATOUT<sup>1</sup>, A. BOUREFIS<sup>1</sup>, M. HACINI<sup>2</sup>**

*<sup>1</sup>Geology and Environment Laboratory, University of Constantine 1, Road Ain El Bey Zouaghi Slimane Constantine, Algeria, <sup>2</sup>Geology of Saharan laboratory, Department of earth sciences, Faculty of Hydrocarbon. University Kasdi Merbah Ouargla, Algeria*

***Superficial pollution of quaternary soils of the city of Ali Mendjeli, Constantine, northeast of Algeria***

## 6<sup>th</sup> of May 2022 (Friday)

09:00 – 10:00

### Technical Session 6

Chair of the Session: *Ágnes BÁLINT*

40. Viraja BHAT<sup>1</sup>, Prakash RAO<sup>2</sup>, Shubham BARJIBHE<sup>3</sup>  
*<sup>1</sup>Department, Symbiosis Institute of International Business, Pune, India*  
**An analytical study of e-waste awareness and disposal behaviour amongst rural, semi-urban and urban consumers of Maharashtra**
41. Zoltán JUVANCZ, Rita BODÁNE-KENDROVICS, Zita LACZKÓ  
*Óbuda University, Faculty of Light Industry and Environmental Engineering, Institute of Environmental Engineering and Nature Science, Budapest, Hungary*  
**Chiral separations of phyretroic acids using cyclodextrin selectors**
42. Eman R. B. OJALEY<sup>1</sup>, Hussein B. B. JENJEN<sup>1</sup>, Osama R. SHALTAMI<sup>2</sup>, Ahmed M. MUFTAH<sup>2</sup>  
*<sup>1</sup>Department of Zoology, Faculty of Science, University of Benghazi, Benghazi-Libya,*  
*<sup>2</sup>Department of Earth Sciences, Faculty of Science, University of Benghazi, Benghazi-Libya*  
**Molluskan tissues as an accumulation sites for heavy metals from Libyan coast in North-East Libya**
43. Dina MALGAZH DAROVA  
*Management and Organization Sciences/Hungarian University of Agriculture and Life Sciences, Kaposvar, Hungary*  
**Nexus between economic growth, availability of fossil fuels and opportunities for achieving environmental sustainability in countries of CIS: the case of oil and gas exporting countries**
44. P. SENTHILVALAVAN<sup>1</sup>, M.V. SRIRAMACHANDRASEKHARAN<sup>1</sup>, R. MANIVANNAN<sup>1</sup>, C. RAVIKUMAR<sup>2</sup>, U. SURENDRAN<sup>3</sup>, Pritpal SINGH<sup>4</sup>, K. P. RAGUNATH<sup>5</sup>  
*<sup>1</sup>Department of Soil Science and Agricultural Chemistry, Faculty of Agriculture, Annamalai University, Tamilnadu, India, <sup>2</sup>Department of Agronomy, Faculty of Agriculture, Annamalai University, Tamilnadu, India, <sup>3</sup>Centre for Water Resources Development and Management, Kozhikode, Kerala, India, <sup>4</sup>Punjab Agricultural University, Ludhiana, Punjab, India*  
**Carbon accumulation in low land paddy soils moderated by certain management practices**

**45. Lóránt SZABÓ**

*Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary*

**Wind energy application in Hungary**

**10:00 – 11:00**

**Technical Session 7**

*Chair of the Session:*

**Hosam BAYOUMI HAMUDA**

**46. Csaba ÁGOSTON**

*Óbuda University, Institute of Environmental Engineering and Natural Sciences, Budapest, Hungary*

**Odour problem of animal keeping in Hungary**

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

*<sup>1</sup>Department of Mathematics and Basic Natural Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, <sup>2</sup>Institute of Environmental and Natural Sciences, Óbuda University, Budapest, Hungary*

**New methods for applying the symmetry theory of stereoregular polymers for quantum-mechanical modelling of photovoltaic type materials**

**48. Hadjer BOUSBA<sup>1</sup>, Ramdane MARMI<sup>1</sup>, Kamel BOUF<sup>AA</sup><sup>2</sup>, Fouad BOUAICHA<sup>1</sup>, Rima KIFOUICHE<sup>1</sup>**

*<sup>1</sup>Geology and Environment Laboratory, University of Constantine 1, Route Ain El Bey Zouaghi Slimane Constantine, Algeria, <sup>2</sup>Geological Engineering Laboratory, University of Jijel, Cité Ouled Aissa, Algeria*

**Soil quality in the Sebkhass environment (South-Eastern Constantine), Algeria**

**49. Krisztina DEMÉNY**

*Óbuda University, Faculty of Light Industry and Environmental Engineering, Institute of Environmental Engineering and Nature Science, Budapest, Hungary*

**Changes in land use and stability survey in Gödöllő Hillside**

**50. Ágnes BÁLINT<sup>1</sup>, Erika LÁSZLÓ<sup>2</sup>, Csaba MÉSZÁROS<sup>3</sup>**

*<sup>1</sup>Institute of Environmental Engineering and Natural Sciences, Óbuda University, Budapest, Hungary, <sup>2</sup>Doctoral School of Public Administration Sciences, National University of Public Service, Budapest Hungary, <sup>3</sup>Institute of Mathematics and Basics of Natural Sciences, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, Gödöllő, Hungary*

**Heavy metal concentrations in the hair samples**

11:00 – 12:10

**Poster Session**

*Chair of the Session: Hosam Bayoumi Hamuda*

51. **Amina HAFSI<sup>1</sup>, Ahsene BOUREFIS<sup>1</sup>, Farès KESSASRA<sup>2</sup>, Abdellah BOUSHABA<sup>3</sup>**  
*<sup>1</sup>Affiliation Department of Geology and Environment, University les Frères Mentouri, Constantine 1., <sup>2</sup>Laboratory of Geological Engineering, Team 3 "Geology", University of Jijel, Algeria, Department of Earth and Universe Sciences, University of Jijel, Central Campus, Algeria, <sup>3</sup>Department of Geology, Sidi Mohamed Benabdellah University, Fes, Morocco*  
**Assessment of groundwater pollution by heavy metals in the industrial zone of Skikda**
52. **Ádám FEHÉR<sup>1</sup>, Csaba CENTERI<sup>2</sup>, Pari ALKHASOVA<sup>2</sup>, Krisztián KATONA<sup>2</sup>**  
*<sup>1</sup>Independent Researcher, Apc, Hungary, <sup>2</sup>Institute for Wildlife Management and Nature Conservation, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary*  
**Comparison of deep rooting of wild boar on soil properties in the Mátra Mountain and the Gödöllő hillside**
53. **Ákos MALATINSZKY**  
*Department of Nature Conservation and Landscape Management, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary*  
**Forgotten preservers of protected plants: orchard grasslands in Hungarian hilly areas**
54. **Reghais AZZEDDINE, Drouiche ABDELMALEK, Zahi FAOUZI, Debeiche TAHA-HOCINE**  
*Geological Engineering Laboratory (LGG), University of Mohamed Seddik Benyahia - Jijel, Algeria*  
**Risk assessment of heavy metals in the complex terminal aquifer data from Biskra, South-est Algeria**
55. **Csaba CENTERI<sup>1</sup>, Viktória VONA<sup>2</sup>, Márton VONA<sup>2</sup>, Zsolt BIRÓ<sup>3</sup>**  
*<sup>1</sup>Department of Nature Conservation and Landscape Management, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, <sup>2</sup>Csernozjom Ltd., Nagykörű, Hungary, <sup>3</sup>Department of Wildlife Biology and Management, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary*  
**Impacts of mole activities on soil properties**

56. **F. HIZIR<sup>1</sup>, A. KRIKA<sup>2</sup>, F. KESSASRA<sup>1</sup>**  
*<sup>1</sup>Geological Engineering Laboratory, University of Mohamed Seddik Benyahia, Jijel, Algeria,*  
*<sup>2</sup>Laboratory of Biotechnology, Environment and Health, University of Mohamed Seddik Benyahia, Jijel, Algeria*  
**Assessment of surface water quality of the Kebir-Rhumel Wadi (North-East, Algeria)**
57. **Ildikó TURCSÁNYI-JÁRDI, Eszter S.-FALUSI, Atilla FÜRÉSZ, Gergely PÁPAY, Péter Gergő KOVÁCS, Károly PENKSZA**  
*Institute of Crop Production, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary*  
**Changes in wet and dry habitats in the Ipoly Valley**
58. **Malihe MASOUDI<sup>1</sup>, Csaba CENTERI<sup>1</sup>, Gergely JAKAB<sup>2,3</sup>, Zsolt BIRÓ<sup>1</sup>, Lyndre NEL<sup>1</sup>, Eszter KOVÁCS<sup>1</sup>, Viola PROHASZKA<sup>4</sup>**  
*<sup>1</sup>Institute for Wildlife Management and Nature Conservation, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary, <sup>2</sup>Geographical Institute, Research Centre for Astronomy and Earth Sciences, Budapest, Hungary, <sup>3</sup>Institute of Geography and Earth Sciences, ELTE Eötvös Loránd University, Budapest, Hungary, <sup>4</sup>Doctoral School of Landscape Architecture and Landscape Ecology, Hungarian University of Agricultural and Life Sciences, Gödöllő, Hungary*  
**The effect of different land-uses on soil organic matter content in the zselic region, Hungary**
59. **Drakulovic Vesna, Marko Jovanov, Una Marceta, Bogdana Vujic**  
*Technical faculty "Mihajlo Pupin", University of Novi Sad, Zrenjanin, Serbia*  
**Modelling an atmospheric dispersion of methane and hydrogen sulfide originating from landfills**
60. **Dina MALGAZH DAROVA**  
*Management and Organization Sciences/Hungarian University of Agriculture and Life Sciences, Kaposvar, Hungary*  
**Nexus between foreign direct investment and economic growth in oil exporting countries of CIS**
61. **P. SENTHILVALAVAN<sup>1</sup>, M.V. SRIRAMACHANDRASEKHARAN<sup>1</sup>, R. MANIVANNAN<sup>1</sup>, C. RAVIKUMAR<sup>2</sup>**  
*<sup>1</sup>Department of Soil Science and Agricultural Chemistry, <sup>2</sup>Department of Agronomy, Faculty of Agriculture, Annamalai University, Tamilnadu, India, <sup>2</sup>Agricultural Research Station, Bhavanisagar, Tamilnadu Agricultural University, Tamilnadu, India*  
**Life cycle assessment of rice-pulse production system in Cauvery Deltaic region of Tamil Nadu, India**



62. Sundoss KABALAN, Katalin JUHOS, Nándor PRETTL, Priyo Adi NUGROHO, Borbála BIRÓ

*Doctor's School of Horticulture, Hungarian University of Agriculture and Life Sciences (MATE), Budapest, Hungary*

***Soil-dependent importance of symbiotic interactions with three cover crops***

63. Tibor Szili-KOVÁCS, Tünde TAKÁCS

*Department of Soil Biology, Institute for Soil Sciences, Centre for Agricultural Research, Budapest, Hungary*

***Impact of floods on soil microbial biomass and activity at a floodplain contaminated by former metal mining***

64. Tünde TAKÁCS, Anna FÜZY

*Department of Soil Biology, Institute for Soil Sciences, Centre for Agricultural Research, Budapest, Hungary*

***Promoting phytoremediation by arbuscular mycorrhizal fungi***

12:10 – 13:10

## Technical Session 8

*Chair of the Session: Hosam Bayoumi Hamuda*

65. Sadhan Kumar GHOSH<sup>1,2</sup>, Abhishek KUMAR<sup>1</sup>

*<sup>1</sup>Department of Mechanical Engineering, Jadavpur University, Kolkata, India, <sup>2</sup>International Society of Waste Management, Air and Water, India*

***Potential use of ELV Waste Re-circulation in co-processing***

66. Tsend-Ayush ERDENEJARGAL, Hosam E.A.F. BAYOUMI HAMUDA

*Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary*

***Effects of land application of municipal solid sewage sludge and waste plant compost on wheat growth and soil enzymatic activities***

67. Yasmin HAMUDA<sup>1</sup>, Hosam E.A.F. BAYOUMI HAMUDA<sup>2</sup>

*<sup>1</sup>Tomori Pál College, Budapest, Hungary, <sup>2</sup>Institute of Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary*

***Eco-innovation and environmental and economic management***

68. **Ariunkhishig MUNKHSUKH, Hosam E.A.F. BAYOUMI HAMUDA**  
*Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary*  
***Frequency distribution of heavy metal contents in natural, urban and mining locations in Mongolia***
69. **Viktória TÖRÖK, Rebeka SZALÓKI, Ádám MEDVECZKI , Hosam E.A.F. BAYOUMI HAMUDA**  
*Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary*  
***Analysis of lichen biodiversity in different areas of Hungary***
70. **Hosam E.A.F. BAYOUMI HAMUDA<sup>1</sup>, Fatma H. EL-FALLAH<sup>2</sup>, Márta BERECS<sup>1</sup>, András SZEDER<sup>1</sup>, András MÉNESI<sup>1</sup>, Júlia KASZÁS<sup>1</sup>**  
*<sup>1</sup>Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary, <sup>2</sup>University of Ajdabiya, Benghazi, Libya*  
***Efficacy of the different organic wastes as "clean" fertilizers***
71. **Ádám GYARMATI, Hosam E.A.F. BAYOUMI HAMUDA**  
*Environmental Engineering and Natural Science Department, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Óbuda University, Hungary*  
***Effects of different pesticides on the activity of some enzymes in the rhizosphere of brown forest soil***

13:10

**Closing the Symposium**