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Zielona Gora, 19-20.10.2023

Institute of Environmental Engineering

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PROGRAM OF THE CONFERENCE, 19.10.2023

9⁰⁰-9¹⁰ CONFERENCE OPENING

Session I, 9¹⁰-11⁵⁰

Chairman of the session: prof. Andrzej Greinert

- 9¹⁰-9²⁵ **KRAUSE JENS, KRAUSE HANS-JOACHIM, SATORA MACEJ** / IHK Cottbus, CEBRA Cottbus, Fraunhofer Görlitz Germany/
Overview of the Lausitz hydrogen network "Take a deep breath"
- 9²⁵-9⁴⁰ **ALINA PANCEWICZ, ANNA KURIANOWICZ** /Silesian University of Technology, Gliwice, Poland/
Greening urban spaces in the process of climate adaptation of cities
- 9⁴⁰-9⁵⁵ **MAŁGORZATA STĘPNIIEWSKA, ANDRZEJ MIZGAJSKI** /Adam Mickiewicz University, Poznan, Poland/
Ecosystem services in the management of ecological systems
- 9⁵⁵-10¹⁰ **KAMIL ARTUR MAJEWSKI** /University of Zielona Góra, Zielona Góra, Poland/
Laser confocal microscopy as a tool for detecting and studying microplastics in cellular structures based on the absence of fluorescence signal
- 10¹⁰-10²⁵ **ROMAN PILCH** /School of Art and Design, Lodz, Poland/
New model factors that form contemporary domiciliating solutions of peripheral areas of urbanized
- 10²⁵-10⁴⁰ **KRZYSZTOF GOLBA** /AGH University of Krakow, Cracow, Poland/
Socio-structural changes and the load of nutrients in the environment
- 10⁴⁰-10⁵⁵ **KRZYSZTOF SŁOTA, ZBIGNIEW SŁOTA, ANNA MORCINEK-SŁOTA** /Silesian University of Technology, Gliwice, Poland/
Interlevel connections as a way to increase the ventilation efficiency of a mine ventilation network -case study
- 10⁵⁵-11¹⁰ **MAREK KORZEC** /AGH University of Krakow, Cracow, Poland/
Determinants and opportunities of using water from mine dewatering systems in rejecting and recovering condensation heat of mine underground refrigeration plant
- 11¹⁰-11²⁵ **JUSTYNA SWOLKIEN** /AGH University of Krakow, Cracow, Poland/
The impact of methane emitted into the atmosphere from mining areas and the possibilities of its monitoring
- 11²⁵-11⁴⁰ **Discussion**

Session II, 11⁵⁰-14⁰⁰

Chairman of the session: Monika Suchowska-Kisielewicz, PhD

- 11⁵⁰-12⁰⁵ **MARCIN SŁOMIŃSKI** /ADT Group Sp. z o.o., Warsaw, Poland/
Using ML algorithms to create better environment
- 12⁰⁵-12²⁰ **CHINENYE IGWEGBE** /Wroclaw University of Environmental and Life Sciences, Wroclaw, Poland/
Enhancing Municipal Solid Waste Leachate Treatment Efficiency: AI-Based Prediction of Electrocoagulation/Flocculation Recovery Using Iron Electrodes
- 12²⁰-12³⁵ **ŁUKASZ SZAREK, PAWEŁ FALACIŃSKI, PIOTR DRUŻYŃSKI AND MATEUSZ DUDZIAK** /Warsaw University of Technology, Warsaw, Poland/
Innovative, modular building facades - as a tool to counteract the effects and prevent climate change
- 12³⁵-12⁵⁰ **ALEKSANDRA BAZAN-WOŹNIAK** /Adam Mickiewicz University, Poznan, Poland/
Microwave heating for synthesis of carbonaceous adsorbents for removal of toxic organic and inorganic contaminants
- 12⁵⁰-13⁰⁵ **IZABELA KIEŁB-SOTKIEWICZ** /Rzeszow University of Technology, Rzeszow, Poland/
Ozonation in wastewater disinfection
- 13⁰⁵-13²⁰ **MATEUSZ WOROBI CZUK, ZAJĄC MARCIN, KOTYŃSKA JOANNA, NAUMOWICZ MONIKA** /University of Białystok, Białystok, Poland/
Current state of knowledge about plastics' ability to sorption
- 13²⁰-13³⁵ **MARTA MAGNUCKA, JOANNA ŚWIETLIK** /Adam Mickiewicz University, Poznan, Poland/
Microplastics in raw and treated drinking water
- 13³⁵-13⁵⁰ **Discussion**

Poster session, 14⁰⁰-16⁰⁰

Chairman of the session: Piotr Ziembicki, PhD

PROGRAM OF THE CONFERENCE, 20.10.2023

Session I, 9⁰⁰-11³⁰

Chairman of the session: prof. Andrzej Greinert

- 9⁰⁰-9¹⁵ **KOLJA THESTORF** /Humboldt University of Berlin, Berlin, Germany/
Anthropogenic impact on soils of the former Berlin Tegel Airfield - a case study
- 9¹⁵-9³⁰ **ALMEIDA JOSÉ CARLOS** /Polytechnic University of Guarda, Guarda, Portugal/
The concrete cover's role in the sustainability of reinforced concrete bridges
- 9³⁰-9⁴⁵ **GRIGOROV BORISLAV** /Sofia University "St. Kliment Ohridski", Sofia, Bulgaria/
Forest habitats of Svoge Municipality, Bulgaria
- 9⁴⁵-10⁰⁰ **SEBASTIAN KUŚMIERZ** /Wageningen University & Research, Wageningen, The Netherlands/
Effects of Groundwater Table Manipulation on Greenhouse Gas Emissions: CO₂ Reduction and N₂O Challenges
- 10⁰⁰-10¹⁵ **KOMÍNKOVÁ DANA, JAROSLAV VACULA** /Czech University of Life Sciences, Prague, Czech Republic/
Constructed wetlands as a tool to treat emergency outflow from Nuclear Power Plant
- 10¹⁵-10³⁰ **ANDRÉS RODRÍGUEZ SEIJO** /University of Vigo, Vigo, Spain/
Impact of microplastics on soils: what is our real perception?
- 10³⁰-10⁴⁵ **OLEKSANDR SEMKO, OLENA FILONENKO, OLEG YURIN, TETIANA ILCHENKO** /National University «Yuri Kondratyuk Poltava Polytechnic», Poltava, Ukraine/, **VOLODYMYR SEMKO** /Poznan University of Technology, Poznan, Poland/, **ROMAN RABENSEIFER, NATALIJA MAHAS** /Slovak University of Technology in Bratislava, Bratislava, Slovak Republic/
Monitoring of the actual condition of critical infrastructure building structures to prevent emergency situations
- 10⁴⁵-11⁰⁰ **HARUNA KUJE AYUBA** /Nasarawa State University, Keffi, Nigeria/
The Role of National Agency for Great Green Wall (NAGGW) in promoting Climate Change Adaptation among communities in Northern Nigeria
- 11⁰⁰-11¹⁵ **WILFRIED WINIWARTER** /University of Zielona Góra, Zielona Góra, Poland/
Energy transition for a sustainable society
- 11¹⁵-11³⁰ **IBRAHIM MUHAMMAD HARUNA, ALIYU L., JIBRIN I.M., AUDU S.D., MAUNDE S.M., ABUBUKAR U.I., ABDULLAHI S., EKWERE, U.A.** /Nasarawa State University, Keffi, Nigeria/
The role of alley cropping in the reclamation of degraded agricultural land

Session II, 11³⁰-14¹⁵

Chairman of the session: Marta Gortych, PhD

- 11³⁰-11⁴⁵ **OLUMUYIWA JAMES JAYEOBA** /Nasarawa State University, Keffi, Nigeria/
Biochar technology for climate change mitigation, circular economy, crop protection, and soil remediation for sustainable agriculture
- 11⁴⁵-12⁰⁰ **JOANNA KUBIAK** /Poznan University of Technology, Poznan, Poland/
Reception of radioactivity in modern society
- 12⁰⁰-12¹⁵ **RADOSŁAW BAREK** /Poznan University of Technology, Poznan, Poland/
Natural material in construction as an element of a circular economy
- 12¹⁵-12³⁰ **ALEKSANDRA STRACH** /University of Silesia, Katowice, Poland/
Environmental filter for non-invasive heavy metal ion capture
- 12³⁰-12⁴⁵ **JOANNA FAJFER, KOSTRZ-SIKORA Paulina** /Polish Geological Institute-National Research Institute, Sosnowiec, Poland/
Reclaimed disposal sites as a source of secondary raw materials – the cost-effectiveness assesement of extracting of accumulated waste
- 12⁴⁵-13⁰⁰ **BARBARA WŁODARCZYK** /University of Opole, Opole, Poland/
Feeding a membrane-less microbial fuel cell by mixed domestic and industrial wastewaters
- 13⁰⁰-13¹⁵ **PAWEŁ PIOTR WŁODARCZYK** /University of Opole, Opole, Poland/
Effect of the use of various cathodes on a membrane-less microbial fuel cell operation
- 13¹⁵-13³⁰ **DOROTA PALUCH** /Adam Mickiewicz University, Poznan, Poland/
Adsorption of organic compounds on biocarbons obtained by chemical activation of biomass by sodium carbonate
- 13³⁰-13⁴⁵ **HANNA MICHALAK, PATRYCJA KAMIŃSKA** /Poznan University of Technology, Poznan, Poland/
Green and eco-friendly façade systems for the sustainable tomorrow
- 13⁴⁵-14⁰⁰ **HAROON SEDDIQE, RAHMATULLAH SEDIQI, OSMAN YILDIZ** /Eskisehir Technical University, Eskisehir, Turkey/
hydrological modeling to predict streamflow and flood hydrographs analysis under changing climate condition in the central Anatolian basin using HEC-HMS Model
- 14⁰⁰-14¹⁵ **Discussion**