

3rd International Conference AEE 2021



Conference programme

November 25, 2021

09:00 – 09:15 Conference opening – Naděžda Številová

09:15 – 11:15 Plenary lectures

Chairmen: Naděžda Številová, Vojtěch Václavík

09:15 – 09:30 Ansorge Libor, Stejskalová Lada, Jiří Dlabal: *Allocation of water loss to individual benefits provided by the Fláje reservoir - comparison of several procedures* (T. G. Masaryk Water Research Institute)

09:30 – 09:45 Ján Ilavský, Danka Barloková, Martin Marton: *Removal of Selected Pesticides from Water using Granular Activated Carbon* (Faculty of Civil Engineering, Slovak Technical University)

09:45 – 10:00 Sérgio Lousada :
The Land Uses Management with the Execution of an Artificial Beach – Madeira Island – Machico, Portugal
(Faculty of Exact Sciences and Engineering, University of Madeira)

10:00 – 10:15 Tereza Kubínova, Miroslav Kyncl: *Comparison of standard methods for determining the color of water in several countries* (Faculty of Mining and Geology, VSB-Technical University of Ostrava)

10:15 – 10:30 Daniela Cvelihárová, Alena Pauliková:
Water efficiency management systems for transport drinking water supply
(Faculty of Civil Engineering of the Technical University of Košice, Slovak University of Technology in Bratislava)

10:30 – 10:45 Světlana Moravčíková, Renata Biela: *Monitoring the effectiveness of selected sorption materials in removing diclofenac from water* (Faculty of Civil Engineering, Brno University of Technology)

10:45 – 11:00 Milan Axman, Šárka Kročová: *Safety of dams in crisis situations*
(Faculty of Safety Engineering, VŠB - Technical University of Ostrava)

11:00 – 11:15 František Ondrašík, Šárka Kročová: *Wastewater recycling and the possibility of its technical use in practice* (Faculty of Safety Engineering, VŠB - Technical University of Ostrava)

11:15 – 12:15

Lunch break

12:15 – 14:15 Plenary lectures

Chairmen: Adriana Ešťoková, Jozef Junák

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- 12:15 – 12:30 Miriama Hološová, Adriana Ešťoková: *Screening of predominant microorganisms occurring on the concrete structures from selected locations* (Faculty of Civil Engineering, Technical University of Kosice)
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- 12:30 – 12:45 Roxana Durán Sosa, Rui Alexandre Castanho: *Methodological development for teaching environmental management within the framework of the university research and teaching project in the Central of Heredia (March to September 2020), Costa Rica. A preliminary study* (Faculty of Social Sciences, National University-Costa Rica, Faculty of Applied Sciences, WSB University)
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- 12:45 – 13:00 Lenka Štofejová, Danica Fazekašová, Juraj Fazekaš: *Soil contamination in the area of magnesite mining in urban and agrarian land* (Faculty of Management, University of Prešov)
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- 13:00 – 13:15 Hana Štverková, Katarzyna Czerná, Michal Pohludka: *The importance of innovation in terms of a sustainable entrepreneurship in environment* (Faculty of Economics ,VŠB- Technical University of Ostrava, ZKV Career, s.r.o.)
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- 13:15 – 13:30 Hana Švehláková, Barbora Turčová, Tomáš Rajdus, Petr Plohák, Jana Nováková: *Effective combination of management methods suppresses invasive Jerusalem artichoke* (Faculty of mining and geology, VŠB - Technical University of Ostrava)
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- 13:30 – 13:45 Alžbeta Takáčová, Miriama Bajuszová, Jana Kohanová, Alexander Lux, Anna Kokavcová: *Biosorption of chromium by dry algae Chlorella kessleri* (Faculty of Natural Sciences, Comenius University in Bratislava, VÚRUP, a.s.)
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- 13:45 – 14:00 Markéta Vašinková, Marek Dlabaja, Kateřina Kučová: *Bioaccumulation of toxic metals by fungi of the genus Aspergillus isolated from the contaminated area of Ostramo Lagoons* (Faculty of Mining and Geology, VŠB – Technical University of Ostrava)
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- 14:00 – 14:15 Radek Papesch, Kateřina Máčalová, Jakub Charvát, Tomáš Dvorský, Vojtěch Václavík: *Treatment and utilization of artificial aggregate in the production of cement composites* (Faculty of mining and geology, VŠB - Technical University of Ostrava)
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November 26, 2021

09:00 – 11:00 Plenary lectures

Chairmen: Hana Štverková, Marek Teichmann

09:00 – 09:15 Jana Jišová, Tomáš Tichý, Josef Filip, K Navrátilová L Thomayer: *The application of the latest territorial components for sustainable mobility in district cities* (Faculty of Transportation Sciences, Czech Technical University in Prague, Projekce dopravní Filip s.r.o.)

09:15 – 09:30 Katarzyna Pietrucha-Urbanik, Barbara Tchórzewska-Cieślak: *Water Network Functional Analysis* (Faculty of Civil, Environmental Engineering and Architecture, Rzeszow University of Technology)

09:30 – 09:45 Simona Matušková, Marcela Taušová, Lucia Domaracká, Peter Tauš: *Waste production and waste management in the EU* (Faculty of mining and geology, VŠB - Technical University of Ostrava, Technical University of Kosice)

09:45 – 10:00 Simona Mikšíková, František Kuda, Irena Steinová: *Intelligent and efficient parking solutions* (Faculty of civil engineering, VŠB - Technical University of Ostrava)

10:00 – 10:15 Michaela Petrová, Martina Krugerová, Michal Koziel: *New modes of transport and their impact on international transport* (Faculty of Economics ,VŠB- Technical University of Ostrava)

10:15 – 10:30 Paulina Polko, Kinga Kimic : *Condition of urban park infrastructure in the context of perceived security of park users* (Faculty of Applied Sciences, WSB University, Poland, Institute of Environmental Engineering, Warsaw University of Life Sciences – SGGW)

10:30 – 11:00

Coffe break

11:00 – 12:00 Poster session

- P-1 **M. Balintova, Z. Kovacova, S. Demcak, Y. Chernysh and N. Junakova** : *Comparison of sorption efficiency of natural and MnO₂ coated zeolite for copper removal from model solutions*
- P-2 **L. Brumarová, P. Kukuliač and J. Brumar** : *Use of geographic information systems in crisis management*
- P-3 **V. Evjáková, E. Pertile and R. Kučerová** : *Monitoring the impact of the Jeremenko pit on water quality in Ostravice*

- P-4 **M. Halík** : *Handling of railway superstructure material at the end of the life cycle*
- P-5 **P. Hlustik and V. Singrova** : *Technical condition of sewer networks in the Czech Republic*
- P-6 **J. Junak and N. Junakova** : *The use of glass waste cullet in the concrete production as an important factor in the circular economy*
- P-7 **J. Junak, A. Sicakova and N. Junakova** : *Surface treatments of recycled brick aggregate and their influence on selected properties of concrete*
- P-8 **N. Junakova and J. Junak** : *Use of vegetation for the removal of pollutants from wastewater as an alternative environmental technique for wastewater treatment*
- P-9 **N. Junakova, M. Balintova, J. Junak and E. Singovszka** : *The quality of bottom sediments in small water reservoirs located in agricultural watersheds*
- P-10 **E. Kridlova Burdova and S. Vilcekova** : *Assessment of environmental impacts and costs during life cycle stages of selected family houses*
- P-11 **K. Kučová, K. Máčalová, V. Václavík, T. Dvorský and M. Vašinková** : *Fungicidal effects on cement composites with recycled glass from photovoltaic panels*
- P-12 **D. Kuta and M. Teichmann** : *Identity, urbanity and division of housing estates in the Czech Republic*
- P-13 **M. Kyncl and S. Drabinová** : *The impact of Covid-19 pandemic on water supplies and wastewater sewer system*
- P-14 **K. Máčalová, K. Kučová, V. Václavík, T. Dvorský, J. Charvát and R. Papesch** : *Algae as a part of microorganisms involved in biocorrosion of cement composites with total replacement of natural aggregates by photovoltaic glass*
- P-15 **P. Martauz and V. Vaclavik** : *Review of the use of waste tires in concrete*
- P-16 **S. Nosalj, A. Šimonovičová and H. Vojtková** : *Enzyme production by soilborne fungal strains of *Aspergillus niger* isolated from different localities affected by mining*
- P-17 **J. Novakova, H. Svehlakova, A. Brodska and B. Stalmachova** : *Contamination of the Burňa watercourse, by a dumps complex*
- P-18 **F. Ondrasik, S. Krocova and A. Thomitzek** : *Intensification of water management during climate change*
- P-19 **M. Ostárek** : *Environmental urbanism and sustainable cities*
- P-20 **P. Polko** : *European Green Deal as a matter of security*
- P-21 **L. Rudl** : *Analysis of CAFM software for construction companies in the Czech*
- P-22 **J. Růžička, J. Kruntorád and R. Rek** : *Microsimulation of pedestrian conflict with other transport modes*
- P-23 **V. Singrova and P. Hlustik** : *Change in dissolved oxygen concentrations during aeration and mixing using a combined system*
- P-24 **E. Singovszká, A. Eštoková and M. Vertal'** : *Radon monitoring in a historical building in Košice city, Slovakia – a case study*

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- P-25 **N. Stevulova and A. Estokova** : *Changes in thermal stability of lignocelluloses waste aggregates long-term incorporated in composite*
- P-26 **M. Teichmann, D. Kuta, N. Szeligova and F. Kuda** : *Evaluation of urban water networks - Case study*
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12:00 – 12:15

Conference closing
