



**THE FIRST INTERNATIONAL SCIENTIFIC CONFERENCE
ECOLOGICAL AND ENVIRONMENTAL ENGINEERING
26-29 June 2018, KRAKÓW, POLAND**



**HONORARY
PATRONAGE**



Ministry of Science
and Higher Education
Republic of Poland



MINISTRY
OF THE ENVIRONMENT



MINISTRY OF AGRICULTURE
AND RURAL DEVELOPMENT



MARSHAL OF THE
LUBELSKIE VOIVODESHIP

CONFERENCE PROGRAM

26TH JUNE 2018 – TUESDAY

17.00–20.00	Welcome reception – Hall in the Congress Center University of Agriculture in Kraków, al. 29 Listopada 46, 30-059 Kraków
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27TH JUNE 2018 – WEDNESDAY

9.00–10.00	Registration – Hall in the Congress Center University of Agriculture in Kraków, al. 29 Listopada 46, 30-059 Kraków
10.00–10.30	Conference opening – Aula
10.30–12.30	Plenary session Chair: <i>Magdalena Gajewska & Czesława Rosik-Dulewska</i>
10.30–11.00	<i>Anabela Durão</i> (Portugal) – Water and wastewater management in Portugal: an overview
11.00 –11.30	<i>Andrea Petroselli</i> (Italy) – GIS Terrain Analysis for hydrogeomorphic applications and rainfall runoff modeling
11.30–12.00	<i>Konrad Thürmer</i> (Germany) – New approach to river maintenance depending on a climate change
12.00 –12.30	<i>Jacek Dach</i> (Poland) – Biowaste to biogas/biohydrogen: innovative Polish real-scale installations
13.00–14.00	Lunch

Parallel session

14.00–15.40	Club room Water and wastewater technology Chair: <i>Anabela Durao & Gabriel Borowski</i>	Room 003 Renewable energy Chair: <i>Jacek Dach & Alina Kowalczyk-Juško</i>
14.00–14.20	Study of catalytic processes for biodiesel production wastewater treatment <i>Maria Teresa Borralho, Ana Pardal, Solange Coelho, Andreia Estrela</i>	Assessment of methods for lignocellulosic biomass pre-treatment/hydrolysis to produce liquid biofuels <i>Linda Mezule, Ieva Berzina, Martins Strods</i>

14.20–14.40	<p>Biological monitoring of freshwater ecosystems – advantageous of various approaches</p> <p><i>Krzysztof Szoszkiewicz, Daniel Gebler, Szymon Jusik, Joanna Chmist</i></p>	<p>Evaluation of energy production through solar photovoltaic technology for self-consumption in the Parish Council of São Bartolomeu de Messines, Portugal</p> <p><i>Ana Pardal, José Paulo Pinto, Joana Fernandes</i></p>
14.40–15.00	<p>Effectiveness of domestic sewage purification in natural environment</p> <p><i>Katarzyna Pawęska</i></p>	<p>Development of the Polish geothermal sector in the light of current possibilities of financial support for a geothermal investment</p> <p><i>Anna Chmielowska, Anna Sowizdzał</i></p>
15.00–15.20	<p>Advanced oxidation treatment of composting leachate of food solid waste by ozone-hydrogen peroxide</p> <p><i>Maciej Gliniak, Anna Lis, Daria Polek</i></p>	<p>Energy analysis of building biogas plant at the poultry farm</p> <p><i>Aleksandra Jeżowska, Damian Janczak, Andrzej Lewicki, Kamil Kozłowski, Dawid Chelkowski</i></p>
15.20–15.40	Discussion	Discussion
15.40–16.00	Coffee break	
Parallel session		
16.00–17.40	<p style="text-align: center;">Club room</p> <p style="text-align: center;">Water and wastewater technology</p> <p style="text-align: center;">Chair:</p> <p style="text-align: center;"><i>Krzysztof Szoszkiewicz & Katarzyna Pawęska</i></p>	<p style="text-align: center;">Room 003</p> <p style="text-align: center;">Renewable energy</p> <p style="text-align: center;">Chair:</p> <p style="text-align: center;"><i>Linda Mezule & Ana Pardal</i></p>
16.00–16.20	<p>The possibilities of using the broadleaf cattail seeds (<i>Typha latifolia</i> L.) as super absorbent for removing aromatic hydrocarbons (BTEX) from an aqueous solution</p> <p><i>Tomasz Ciesielczuk, Czesława Rosik-Dulewska, Joanna Poluszyńska</i></p>	<p>Potential of biogas production from animal manure in Poland</p> <p><i>Kamil Kozłowski, Jacek Dach, Andrzej Lewicki, Krystyna Malińska, Isaias Emilio Paulino do Carmo</i></p>
16.20–16.40	<p>Phosphates removal from treatment wetlands effluent by selected adsorbents</p> <p><i>Magda Kasprzyk</i></p>	<p>Combining lacasse and biogas production: use of <i>cerrena unicolor</i> as pretreatment for anaerobic digestion of sugarcane bagasse</p> <p><i>Isaias Emilio Paulino do Carmo, Dominika Skibińska, Kamil Kozłowski, Anna Anteka, Stanisław Ledakowicz, Jacek Dach</i></p>
16.40–17.00	<p>Effects of biochar addition on vermicomposting of food industry sewage sludge</p> <p><i>Jakub Świątek, Tadeáš Spitzer</i></p>	<p>Mesophilic versus thermophilic anaerobic digestion of food waste as bioconversion methods</p> <p><i>Marta Cieślik, Wojciech Czekala, Dawid Chelkowski, Maria Różańska, Marta Archacka</i></p>

17.00–17.20	Modeling of sediment precipitation containing struvite from aqueous solutions on the inner walls of steel pipelines <i>Justyna Czajkowska, Maciej Malarski, Tadeusz Siwiec</i>	Energy status of polish companies from the mining industry based on the experience of the energy auditor <i>Daria Polek</i>
17.20–17.40	Discussion	Discussion
20.00	Gala dinner – Canteen near Congress Center, Klemensiewicza 3, 31-425 Kraków	
28TH JUNE 2018 – THURSDAY		
Parallel session		
9.00–10.40	Club room Water and wastewater technology Chair: <i>Agnieszka Karczmarczyk & Andrzej Wałęga</i>	Room 003 Formation and protection of environment Chair: <i>Agnieszka Cupak & Andrea Petroselli</i>
9.00–9.20	Microwave disintegration of sludge as a method of acceleration aerobic stabilization process <i>Maciej Malarski, Justyna Czajkowska, Piotr Nowak</i>	Ecotoxicological risk assessment of tributaries to the Alqueva Reservoir (Southern Portugal) <i>Patrícia Palma, Sofia Fialho, Ana Lima, Alexandra Penha, Maria Helena Novais, S. Monllor-Alcaraz, N. Guillem-Argiles, Mirien Lopez de Alda, Paula Alvarenga, Manuela Morais, Rui Salgado</i>
9.20–9.40	Impact of small municipal solid waste landfill on groundwater quality <i>Grzegorz Przydatek, Włodzimierz Kanownik</i>	Assessing water quality for irrigation and soil salinization risk under drought: the case of the Alqueva reservoir (Guadiana river basin) <i>Alexandra Tomaz, Sofia Fialho, Ana Lima, Paula Alvarenga, Miguel Potes, Rui Salgado, Patrícia Palma</i>
9.40–10.00	LC-MS/MS method validation for determination of selected neonicotinoids in groundwater for the purpose of a column experiment <i>Katarzyna Wątor, Damian Pietrzak, Dorota Pękała, Justyna Wójcik, Aneta Chochorek, Ewa Kmiecik, Jarosław Kania</i>	Factors affecting the development of algal assemblages in the Alqueva Reservoir, southern Portugal <i>Maria Alexandra Penha, Maria Helena Novais, Eduardo Morales, Patrícia Palma, Sofia Fialho, Ana Filipa Lima, Susana Nunes, Anabela Rosado, Anabela Durão, Rui Salgado, Maria Manuela Morais</i>
10.00–10.20	Efficiency of municipal wastewater treatment with the membrane bioreactor <i>Magdalena Kuśnierz</i>	Finding equation constants transfer heat fluids in open porous structure <i>Anatoliy Pavlenko, Hanna Koshlak, Anna Maria Slowak</i>
10.20–10.40	Discussion	Discussion

10.40–11.40	Poster session and coffee break - Hall in the Congress Center Chair: <i>Tomasz Tymiński & Agnieszka Ziernicka-Wojtaszek</i>	
Parallel session		
11.40–13.20	Club room Climate changes Chair: <i>Justyna Czajkowska & Laima Cesoniene</i>	Room 003 Formation and protection of environment Chair: <i>Konrad Thürmer & Beata Olszewska</i>
11.40–12.00	Spatial and temporal feedback of soil erosion to climate change in an agricultural catchment in Poland <i>Romuald Żmuda, Grzegorz Chrobak</i>	Marginal cost curve of air pollution reduction as a tool of air quality management: Kraków case study <i>Agnieszka Flaga-Maryańczyk, Tomasz Stypka</i>
12.00–12.20	Application of a detection and attribution approach to identify the impact of anthropogenic factors on local climate change <i>Grzegorz Chrobak, Katarzyna Chrobak</i>	Preliminary assessment of the wind conditions as a potential for using wind microinstallation in order to improve air quality in Poland <i>Aleksandra Szulc, Barbara Tomaszewska</i>
12.20–12.40	Verification of pluviothermal regionalizations of Poland in the light of contemporary climate change <i>Agnieszka Ziernicka-Wojtaszek</i>	Evaluation of the possibility of using laser scanning for estimation of biomass production in hybrid constructed wetland <i>Radomir Obroślak, Andrzej Mazur, Alina Kowalczyk-Juško, Agnieszka Listosz, Michał Marzec, Kamil Nieścioruk, Patrycja Pochwatka, Krzysztof Józwiakowski, Roman Rybicki, Przemysław Leń</i>
12.40–13.00	Environmental revolution in Cameroon <i>Prudencia Ekom Mbah</i>	Environmental turmoils an effect of lack of sustainability <i>Valery Nkengifor</i>
13.00–13.20	Discussion	Discussion
13.30–14.30	Lunch	
16.00	Kraków Tour: Main Square in Krakow, Cloth Hall, St. Mary's Basilica, Royal Wawel Cathedral (Tombs of Polish Kings in Wawel), Tower of Silver Bells.	
29TH JUNE 2018 – FRIDAY		
9.00–14.00	Protection of the natural environment in the Ojców National Park - Tour	
14.00–15.00	Dinner – Closing ceremony of the conference Zajazd Wernyhora s.c., Pieskowa Skała 9, 32-045 Sułoszowa	
about 16.00	Return to Kraków	