

Wykaz prac przyjętych na 2nd Polish IWA Young Water Professionals Conference  
“Emerging Technologies in Water and Wastewater Sector” Warsaw 2020

Tab.1. Oral presentation			
Lp.	Autorzy	Afiliacja głównego autora	Tytuł
1	O.S. Durodola, J. Bwambale, V. Nabunya	Abou Bekr Belkaid Univeristy of Tlemcen, Tlemcen, Algeria	Using every drop: Rainwater harvesting for food security in Mbale, Uganda
2	D. Holc, A. Pruss, M. Komorowska- Kaufman, B. Mądrecka, E. Szelaż-Wasielewska, Z. Cybulski	Adam Mickiewicz University in Poznan	Examination of microbiological activity of carbon filters used to remove organic compounds from water
3	G. Kaczyński	AF Projects Sp. z o.o.	Presentation of the results of modern methods of wastewater treatment produced by the dairy industry
4	D. Łomińska-Płatek, A. M. Anielak	Cracow University of Technology	Characteristic of Fulvic Acids Extracted from the Wastewater from a Biological Reactor
5	T. Orliński, A. M. Anielak	Cracow University of Technology	Leachate from the landfill as a rich source of fulvic acids
6	J. Górka, M. Cimochowicz-Rybicka	Cracow University of Technology	Utilization of Water Treatment Sludge
7	J. Bąk, K. Szydłowski, T. Żaba	Cracow University of Technology	Analysis of water temperature changes in the water supply system of a big city in Poland
8	J. Bąk	Cracow University of Technology	Analysis of velocity profile changes for water pipelines with different diameters based on CFD simulation
9	J. Kozak, M. Włodarczyk-Makula	Czestochowa University of Technology	Changes in PAHs concentration depending on the time of photoxidation process
10	M. R. Torkomany, M. M. Yusuf, M. Elkholy, A. M. Abdelrazek, H. E. S. Fath	Egypt-Japan University of Science and Technology	Optimum Reliable Design of Water Distribution Networks Using Particle Swarm Optimization Considering Pumping Power and Tank Siting
11	A. Kalinowska, M. Szopinska, S. Chmiel, M. Konczak, Z. Polkowska, K. Jankowska, W. Artichowicz, A. Luczkiewicz	Gdansk University of Technology	Fate of heavy metals in the Arctic fiord – is the untreated wastewater discharge a major threat?
12	M. Szopińska, K. Jankowska, S. Fudala-Książek, A. Łuczkiwicz	Gdansk University of Technology	Occurrence of surface active agents and formaldehyde introduced into Admiralty Bay via wastewater discharge
13	MJ. Mehrani, D. Sobotka, J. Mąkinia	Gdansk University of Technology	Modelling of NOB wash-out from activated sludge system at low temperature and DO concentration
14	B. K. Wilk, S. Fudala-Książek, M. Szopińska, M. Sobaszek,	Gdansk University of Technology	Efficiency of pollutants removal from landfill leachates using Nb/BDD and Si/BDD anodic oxidation

	R. Bogdanowicz, A. Luczkiewicz		
15	A. Kasinath, A. Remiszewska-Skwarek, M. Szopińska, S. Fudala-Książek, A. Luczkiewicz	Gdansk University of Technology	The study of low temperature thermal disintegration of cow dung and sludge: Effects on solubilisation
16	D. Grubba, J. Majtacz, H. Al.-Hazmi, J. Mąkinia	Gdansk University of Technology	Sulfur transformations occurring in the anammox process
17	D. Sobotka, H. Al.-Hazmi, J. Majtacz, J. Mąkinia	Gdansk University of Technology	Start-up of deammonification process in a pilot scale sequencing batch reactor.
18	M. S. Shourjeh, P. Kowal, J. Drewnowski	Gdansk University of Technology	N <sub>2</sub> O production pattern and AOB-NOB competition during nitrification test under limited DO concentration at low temperature
19	E. Bączkowska K. Jankowska, R. Bray	Gdańsk University of Technology	Analysis of potential sources of pollution flowing into the Bay of Puck and the Baltic Sea based on microbiological tests of watercourses in the Coastal Landscape Park.
20	T.C. Prathna, S. Ankit	Govt. of NCT of Delhi	Conservation and Revival of water bodies: A Delhi perspective
21	O. İnce, S. Toprak, A. Çalışiyor, F. D. Tuncez, E. G. Özbayram, B. İnce	Istanbul Technical University	Improving the bio-reclamation efficiency of petrol-derived wastes with Trichocladium Canadense
22	O. Ince, S. Sertgumec, E.G. Ozbayram, Ç. Akyol, Muharrem Eyidogan, Durmuş Kaya, B. Ince	Istanbul Technical University	Sustainable Management of Agro Industrial Waste/Wastewater via Anaerobic Digestion
23	A. Kordach, A. Bunya, S. Thongma, N. Wongpat	Metropolitan Waterworks Authority	Removal Filter Clogging Algae in A Water Treatment Plant Case study: Bangkhen Water Treatment Plant, Bangkok Thailand
24	M. Preisner, E. Neverova-Dziopak, Z. Kowalewski	Polish Academy of Sciences	Analysis of eutrophication potential of treated wastewater
25	M. Smol	Polish Academy of Sciences	Circular economy model framework in the European water and wastewater sector
26	P. Szulc, Z. Dymaczewski, W. Witczak, A. Altermann-Pollet	Poznan University of Technology	From a floc to a granule – reconstruction of aerobic sludge structure under different SBR cycle routine and a various fed source: domestic-industrial vs. artificial wastewater
27	F. Brodowski, M. Łężyk, N. Gutowska, P. Oleśkiewicz-Popiel	Poznan University of Technology	Production of medium chain carboxylic acids from lactic acid - the effect of the concentration of electron donors and electron acceptors on the metabolic pathway selection
28	J. Bylka, A. Bałut, R. Brodziak, P. Zakrzewski	Poznan University of Technology	Modeling the users supply control algorithms in water distribution system
29	L. F. M. dos Santos, C. de M. A. Albuquerque	University of Brasilia	A Procedure for Urban Settlements Identification: Water and Sanitation Services in Poverty Context
30	A. Ferreira, G. Nunes, R. T. Minoti, S. Koide	University of Brasilia	Evaluation of the potential evapotranspiration process in SWAT model
31	H. Orleans-Boham, M. Elkady, A. H. El-Shazly	University of Science and Technology	Sequestering of Heavy Metal in waste water using Polyaniline

32	K. Tota-Maharaj, O. O. Ajibade, C. D. Hills, C. Macleod	University of the West of England	Feasibility of Decentralised Sustainable Refugee Camp Drainage System (SRCDS) for Stormwater and Wastewater Management
33	K. Tota-Maharaj, J. Monrose	University of the West of England	Comparing the long term clogging pattern of permeable pavements for stormwater treatment and reuse
34	M. Zielińska, K. Bernat, W. Mikucka	University of Warmia and Mazury in Olsztyn	Treatment of Municipal Wastewater: the Use of Ceramic Membranes for the Separation of Activated Sludge from the Effluent
35	K. Affek, N. Doskocz, A. Muszyński, M. Załęska-Radziwiłł	Warsaw University of Technology	Should we be concerned about detrimental effects of by-products formed during disinfection of treated wastewater?
36	S. Mirehbar, M. A. Kucharska, J. A. Ładyńska	Warsaw University of Technology	Novel Combined IME-O3/OH-/H2O2 Process in Application for Mature Leachate Treatment
37	M. Wiśniewska	Warsaw University of Technology	Analysis of physicochemical parameters of industrial wastewater from biological processing of municipal waste
38	A. Budzianowska, P. Popielski	Warsaw University of Technology	Detection of filtration processes using thermal monitoring - research on a physical model
39	B. Bednarz, P. Popielski	Warsaw University of Technology	Examples of using Distributed fiber optic sensors (DFOS) for underground infrastructure monitoring
40	A. Bogdanowicz, J. Wąsowski, M. Żubrowska-Sudoł	Warsaw University of Technology	An overview of the methods/techniques used for sampling, separation and identification of microplastics in the water environment
41	A. Dzido, P. Krawczyk, M. Stępień, M. Wołowicz, M. Żubrowska-Sudoł	Warsaw University of Technology	CFD analysis of the fluid flow in the sewage sludge rotor disintegrator before and after the shredding knives implementation
42	Garlicka A., Żubrowska-Sudoł M., Umiejewska K., Walczak J., Sytek-Szmeichel K.	Warsaw University of Technology	Anaerobic co-digestion of thickened excess sludge and animal manure
43	O. Zając, K. Sytek-Szmeichel, J. Walczak, M. Żubrowska-Sudoł	Warsaw University of Technology	Suppression of nitrite oxidizing bacteria in hybrid moving bed technology
44	Ł. Szarek	Warsaw University of Technology	Immobilization of heavy metals in fly ash from thermal treatment of municipal sewage sludge

**Tab. 2. Poster**

Lp.	Autorzy	Afiliacja głównego autora	Tytuł
1	E.M. Marei, S. Ismail, A.I. Hassan	Ain Shams University	Bio-treatments of Saline Wastewater By Using Bacterial and Algal Integrated Effectiveness Compounds
2	N. Taraszkiewicz	Bialystok University of Technology	Use of MCDA Methods in The Selection of Individual Sewage Treatment Plant
3	P. Kondzior	Bialystok University of Technology	Overview of algae cultivation systems
4	E. Hawrylik	Bialystok University of Technology	Methods used in disinfection of the wastewater and sewage sludge - review
5	J. I. Olejniczak, J. Piekutin	Bialystok University of Technology	Total carbon content in fly ash derived from hard coal burning
6	S. Zlatković	External associate of Ministry of Environmental Protection	Application of macrophytes in wastewater treatment – reduction of metal, nitrogen and phosphorus
7	R. Weglarek, A. Remiszewska-Skwarek, A. Luczkiewicz, M. Szopinska, S. Fudala-Książek	Gdansk University of Technology	Reduction of energy consumption in wastewater treatment plants located in rural area
8	K. Kosek, M. Szopińska, A. Luczkiewicz, M. Chodnicki, J. Czyżewicz, S. Fudala-Książek	Gdansk University of Technology	‘Human Smart Cities’ – smart cities co-created by researchers and residents
9	H. Byliński, M. Szopińska, A. Łuczkiewicz, S. Fudala-Książek	Gdansk University of Technology	The state of the art in the field of decrease the pollution in the South Baltic area
10	B. Szelaąg, J. Drewnowski	Gdansk University of Technology	The concept of a hybrid system for identifying the quantity and quality of wastewater inflow at WWTP: a case study
11	M. Pierpaoli, S. Fudala-Książek, A. Łuczkiewicz, M. L. Ruello, R. Bogdanowicz	Gdańsk University of Technology	Enhanced electrochemical oxidation of landfill leachate by boron-doped carbon nanowall electrodes
12	A. Wilińska, K. Czerwionka	Gdansk University of Technology	Transformation of organic nitrogen during co-digestion primary sludge with industrial waste
13	N. Zouhri, S. A. Habzize, M. El Amrani, M. Taky, A. Elmidaoui	Ibn Tofail University (Kénitra, Maroko)	Generation of sulfuric acid and sodium hydroxide from the sodium sulphate salt by electro-electrodialysis (EED)
14	A. Szaja, A. Montusiewicz, M. Lebiocka, M. Bis	Lublin University of Technology	The effect of brewery spent grain application on biogas yields and kinetics in co-digestion with sewage sludge
15	J. Zaborko, R. Głowienka, M. Widomski, J. Szulzyk-Cieplak, G. Łagód	Lublin University of Technology	Modeling of the aeration system for bioreactor with activated sludge using ANSYS software
16	P. Suchorab, D. Kowalski	Lublin University of Technology	Leakage detection using hydraulic modelling and SCADA
17	D. Majerek, G. Łagód	Lublin University of Technology	Evaluation of the treated wastewater discharge influence on the quality of river water using Hotteling test

18	V. Pliashechnyk, R. Babko, T. Kuzmina, Y. Danko, J. Szulzyk-Cieplak, G. Łagód	Lublin University of Technology	Assessment of wastewater treatment plant effluents impact on the ecosystem of the river on the basis of the quantitative development of ciliated protozoa characteristic of aeration tank
19	I. V. Bihun, V. V. Ivaniv, V. V. Cherniuk	Lviv Polytechnic National University	Coefficient of Flow Rate of a Nozzle with Lateral Inlet for Regulation of Fluid Dispensation from Distributive Pipelines
20	K. Iskra, Ł. Krawczyk	National Research Institute	Nitrate removal from wastewater generated in Flue Gas Desulphurisation Systems in coal-fired power generation using the heterotrophic denitrification method
21	A. Makąła, Z. Dymaczewski, J. Jeż-Walkowiak, J. Zembrzuska	Poznan University of Technology	Impact of artificial infiltration on the removal of pharmaceuticals in the treatment of surface water
22	J. Chwiałkowska, P. Oleskowicz-Popiel	Poznan University of Technology	Influence of the pH, retention time and organic loading on mixed culture fermentation of monosaccharides
23	E. Łaskawiec, M. Dudziak, B. Fryczkowska, J. Wyczarska-Kokot	Silesian University of Technology	Contaminants in washings from pool water systems— physicochemical and ecotoxicological properties of selected fractions
24	A. Banach-Wiśniewska, F. Gamoń, A. Ziemińska - Buczyńska	Silesian University of Technology	DNA vs RNA based studies of nitrogen removal bacteria via Real Time PCR
25	M. Adamczak, G. Kamińska, J. Bohdziewicz	Silesian University of Technology	Relationship between the participation of carbon nanotubes and cut-off of ultrafiltration membranes and their effect on retention of microcontaminants
26	L. A. Marques, R. T. Minoti, S. Koide	University of Brasilia	Modelling water quality of a tropical lake with multiple uses: a CE-QUAL-W2 application to Lake Paranoá, Brazil
27	R. Skopek, K. Dębiec-Andrzejewska, Ł. Drewniak	University of Warsaw	Examination of Ochrobactrum POC9 in context of application in bioremediation of manganese contaminated water
28	A.A. Rudnicka A.A., M.R. Dudek, M. Dębowski, M. Zieliński	University of Warmia and Mazury in Olsztyn	The influence of active packing media on nutrients removal from dairy wastewater
29	M. Dudek, A. Nowicka, A. Rudnicka, M. Zieliński, M. Dębowski	University of Warmia and Mazury in Olsztyn	The efficiency of dairy wastewater treatment in anaerobic reactor with labyrinth flow
30	P. Lomza, A. Tabernacka	Warsaw University of Technology	Halogenated organic compounds in groundwater: risk for drinking water and biodegradation in environment
31	K. Umiejewska, M. Dzikowski	Warsaw University of Technology	Concept of modernization and upgrading of biological reactors on wastewater treatment plant in Grodzisk Wielkopolski
32	B. Karolinczak, R. Miłaszewski	Warsaw University of Technology	Cost optimization of the wastewater and septage treatment process
33	J. Walczak, M. Żubrowska-Sudoł	Warsaw University of Technology	Influence of total solids concentrations on organic substrates release via disintegration of sewage sludge
34	K. Sytek-Szmeichel, J. Podedworna, M. Żubrowska-Sudoł,	Warsaw University of Technology	Influence of oxygen concentration on the performance and efficiency of organic carbon and nutrient removal from wastewater