

8th Eastern European Young Water Professionals Conference



Conference Program

Leaving the Ivory Tower -
Bridging the Gap between Academia,
Industry, Services and Public Sector

11-14 May 2016
Gdansk, Poland
<http://iwa-ywp.eu/>



Organised by:



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Scientific Society of
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Co-organised by:



Wrocław University
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Poznań University
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Lodz University of
Technology

WEDNESDAY - 11 MAY 2016

17:00 – 18:00 **PRELIMINARY REGISTRATION OF PARTICIPANTS**

Main Building, Hevelius Courtyard, Gdansk University of Technology



18:00 – 20:00 **WELCOME RECEPTION**

Main Building, Hevelius Courtyard, Gdansk University of Technology

WELCOME WORDS

Chair: Małkinia J. (POLAND)

Małkinia J. - Chair Conference Program Committee, Vice-rector for cooperation and innovation, Head of the Department of Sanitary Engineering Gdańsk University of Technology (POLAND)

Kroiss H. - IWA President (AUSTRIA)

Ibrahimllari A. - IWA YWP Steering Committee - Eastern Europe (ALBANIA)

Loderer C. - IWA YWP Steering Committee - Western Europe (AUSTRIA)



WELCOME DRINK

Join us for the welcome drink in the Gdansk University of Technology. Here you can meet your friends from the previous conferences or have a chat with new participants. This will be a nice warm up before the conference.

Indicate during the online registration if you want to participate, preliminary reservation is required.

THURSDAY - 12 MAY 2016

7:45 – 8:30 **REGISTRATION OF PARTICIPANTS**

Main Building, Aula, Gdansk University of Technology
(Street G. Narutowicza 11/12, Gdańsk 80-233)

8:30 – 9:00 **CONFERENCE OPENING**

Chair: Małkinia J. (POLAND) and Feierabend M. (BELGIUM)

Małkinia J. - Chairman Conference Program Committee, Vice-rector for cooperation and innovation, Head of the Department of Sanitary Engineering Gdańsk University of Technology (POLAND)

Bojanowski A. - Vice-President of Gdansk (POLAND)

Feierabend M. - IWA YWP Program (BELGIUM)

Drewnowski J. - Gdansk University of Technology (POLAND)

9:00 – 9:30 **KEYNOTE SPEECH**

Kroiss H. - IWA President (AUSTRIA)

9:30 – 10:00 **PRESENTATIONS OF SPONSORS**

Gold Sponsor - company WTE - presented by Vasyukova E. (GERMANY)

Gold Sponsor - company E&H - presented by Tippe H. (GERMANY)

Sponsor - company Hach - presented by Witkowska E. (POLAND)

10:00 – 10:30 **Coffee-break and Posters Session (Courtyard)**

10:30 – 12:00

WASTE WATER (Part 1)

Chair: Vasyukova E. (GERMANY) and Bakos V. (HUNGARY)

10:30 - 10:40

EXPERIENCES OF FULL-SCALE DEAMMONIFICATION OF DEWATERING SIDESTREAM FROM THERMOPHILIC ANAEROBIC DIGESTION PROCESS AT BUDAPEST CWWTP
Sebestyen E.

Budapest Waterworks Ltd., Directorate of Wastewater Treatment, Department of Budapest Central Wastewater Treatment Plant (HUNGARY)

10:40 - 10:50

PILOT SCALE STUDY ON REJECT WATER TREATMENT IN PARTIAL NITRITATION/ANAMMOX PROCESS AT POZNAN WASTEWATER TREATMENT PLANT

Jaroszynski L., Jaroszynski T.

Poznan University of Technology, Department of Civil Engineering (POLAND)

10:50 - 11:00

SIDE-STREAM DEAMMONIFICATION PROCESS FAILURE – RISK OF WWTP EFFLUENT QUALITY VIOLATION

Janiak K., Miodoński M., Muszyński-Huhajto M.

Faculty of Environmental Engineering, Wroclaw University of Technology (POLAND)

11:00 - 11:10

TEMPERATURE AND PH INFLUENCE ON ANAMMOX ACTIVITY: A BATCH TEST STUDY

Tomaszewski M., Cema G., Ziemińska-Buczyńska A.

The Silesian University of Technology, Environmental Biotechnology Department (POLAND)

11:10 - 11:20

EFFECT OF SLUDGE AGE ON THE EXERTED CURRENT OF AIR-BREATHING MICROBIAL FUEL CELLS

Mateo S., Rodrigo M., Cañizares P., Fernandez-Morales F

University of Castilla-La Mancha, ITQUIMA, Chemical Engineering Department (SPAIN)

11:20 - 11:30

CARBON-DIOXIDE NEUTRAL ELECTRICITY PRODUCTION IN MICROBIAL FUEL CELLS FROM WASTEWATER

Loka M., Lóránt B.

Budapest University of Technology and Economics, Department of Applied Biotechnology and Food Science (HUNGARY)

11:30- 11:40

METHODOLOGICAL APPROACH FOR DESIGNING A PILOT PLANT FOR INNOVATIVE WASTEWATER TREATMENT PROCESS BASED ON BIOFILM TECHNOLOGY INVENTION

Pelivanoski B., Pirke K., Vasyukova E., Dohmann M., Sekoulov I.

WTE Wassertechnik GmbH (GERMANY)

11:40 - 11:50

POWERSTEP – A REAL PARADIGM SHIFT IN WASTEWATER TREATMENT PROCESSES

Loderer C.

Kompetenzzentrum Wasser Berlin gGmbH (GERMANY)

11:50 - 12:00

Questions

12:00 - 13:00

Lunch (Courtyard)

13:00 – 15:00

WATER (Part 1 - DRINKING WATER)

Chair: Novytska O. (UKRAINE) and Ibrahimllari A. (ALBANIA)

13:00 – 13:10

PREDICTION OF FAILURE RATE OF WATER PIPES USING K-NEAREST NEIGHBOURS METHOD

Kutyłowska M.

Wroclaw University of Technology Faculty of Environmental Engineering (POLAND)

13:10 – 13:20

CALCULATION REAL LOSSES FOR THE LARGE RUSSIAN CITY

Gromov G.

MGSU, MosvodokanalNIIproject (RUSSIA)

13:20 – 13:30

LONG-TERM HYDRAULIC PERFORMANCE OF LOW TMP DEAD-END ULTRAFILTRATION WITH EXTREMELY SIMPLE OPERATION AND MAINTENANCE

Trinh D., Frechen B.

Department of Sanitary and Environmental Engineering of Professor Franz-Bernd Frechen, University of Kassel (GERMANY)

13:30 – 13:40

THE EFFECT OF THE MIXING OF WATER FROM DIFFERENT SOURCES IN THE WATER SUPPLY SYSTEM ON TAP WATER QUALITY - A FULL-SCALE TECHNICAL INVESTIGATION CASE STUDY

Bylka J., Szuster-Janiaczyk A.

Faculty of Civil and Environmental Engineering, Poznan University of Technology (POLAND)

13:40 – 13:50

AN ANALYSIS OF THE INTENSITY OF GROUND VIBRATIONS CAUSED BY MINING TREMORS IN PLACES WHERE WATER DISTRIBUTION SYSTEMS HAVE FAILED

Kilian E.

Department of Energy and Environmental Engineering, Institute of Water and Wastewater Engineering Silesian University of Technology (POLAND)

- 13:50 – 14:00** EVALUATING FEASIBILITY OF ULTRAFILTRATION AS A TREATMENT OPTION FOR SURFACE WATERS OF MTKVARI AND ARAGVI RIVERS
Yatseiko O., Didebulidze K., Giorgadze A., Glurjidge T., Kobaladze A., Lomidze I., Maludze S., Metreveli Z., Patashuri A., Sakevarashvili A., Vakuliuk P., Tarabara V., Agricultural University of Georgia, Tbilisi (GEORGIA)
- 14:00 – 14:10** COMPARING THE REMOVAL OF NICKEL NI(II) BY ZEOLITE IN AQUEOUS SOLUTIONS WITH ARTIFICIAL NEURAL NETWORK AND MULTIPLE LINEAR REGRESSION
Turp S.
Bitlis Eren University Faculty of Engineering and Architecture, Environmental Engineering Department (TURKEY)
- 14:10 – 14:20** THE „PROTECTED COLLOIDS” PHENOMENON AND ITS SIGNIFICANCE FOR WATER TREATMENT
Miller P.
Politechnika Krakowska (POLAND)
- 14:20 – 14:30** LONG TERM DRINKING WATER QUALITY MONITORING IN DRINKING WATER SUPPLY SYSTEMS BY ON-LINE SENSORS
Dejus S., Rusenieks R., Nescerecka A., Nazarovs S., Juhna T.
Riga Technical University, Dep. Water Engineering and Technology (LATVIA)
- 14:30 – 14:40** INVESTIGATION AND MODELING OF BULK CHLORINE DECAY KINETIC IN WATER DISTRIBUTION SYSTEM
AL Heboos S.
Department of Sanitary and Environmental Engineering, Budapest University of Technology and Economics (HUNGARY)
- 14:40 – 14:50** OPTIMAL PRESSURE MEASUREMENT LAYOUT PLANNING IN REAL-LIFE WATER DISTRIBUTION SYSTEMS
Klapcsik K., Hős Cs.
Department of Hydrodynamic Systems, Budapest University of Technology and Economics (HUNGARY)
- 14:50 – 15:00** **Questions**

15:00 – 15:40 **Coffee-break and Posters Session (Courtyard)**

15:40 – 17:10 **WASTE WATER (PART 2)**

Chair: Tiron O. (ROMANIA) and Djogo M. (SERBIA)

- 15:40 - 15:50** ENERGY EFFICIENCY OF COARSE- AND FINE-BUBBLE AERATION SYSTEMS IN THE MBBR IFAS PROCESS
Sander S., Wagner M.
Technische Universität Darmstadt Institute IWAR (GERMANY)
- 15:50 - 16:00** ENERWATER: AN INNOVATIVE ENERGY AUDIT METHODOLOGY IN WASTEWATER TREATMENT PLANTS. FOCUSING ON ITALIAN SCENARIO
D'Antoni B.M., Stefani L., Parelli E., Fatone F.
Department of Biotechnology, University of Verona (ITALY)
- 16:00 - 16:10** UPGRADING BIOLOGICAL NITROGEN REMOVAL AND SCULPTURING ACTIVATED SLUDGE FLOCS IN INDUSTRIAL WASTEWATER TREATMENT
Bakos V.
Budapest University of Technology and Economics, Department of Applied Biotechnology and Food Science (HUNGARY)
- 16:10 – 16:20** APPLICATION OF NATURAL BENTONITE FOR NONIONIC SURFACTANT REMOVAL IN INDUSTRIAL WASTEWATER
Jaszczyszyn K., Góra W., Góra P.
Institute of Environmental Engineering, Poznan University of Technology (POLAND)
- 16:20 – 16:30** OPTIMIZATION OF NITROGEN REMOVAL BY CHANGING AERATION CONTROL IN LARNACA WASTEWATER TREATMENT PLANT (CYPRUS)
Schewerda J., Buinauskaitė A.
WTE Wassertechnik GmbH (GERMANY)
- 16:30 – 16:40** THE COD FRACTIONATION OF MUNICIPAL WASTEWATER BY RESPIROMETRIC METHOD IN CONTROL AND MODELING ACTIVATED SLUDGE SYSTEMS
Szaja A., Drewnowski J., Łagód G., Aguilar J.
Lublin University of Technology, Faculty of Environmental Engineering (POLAND)
- 16:40 – 16:50** UTILIZATION OF DAIRY WASTEWATER AS CARBON SOURCE IN A DOMESTIC ACTIVATED SLUDGE TREATMENT PLANT
Weinpel T.
Department of Applied Biotechnology and Food Science, Budapest University of Technology and Economics (HUNGARY)

16:50 – 17:00 COMPUTER SIMULATION IN PREDICTING BIOCHEMICAL PROCESSES AND ENERGY BALANCE AT WWTPS
 Drewnowski J., Zaborowska E., Hernandez De Vega C.
 Gdansk University of Technology, Faculty of Civil and Environmental Engineering (POLAND)

17:00 – 17:10 Questions

17:10 – 18:00 **DISCUSSION BETWEEN YOUNG AND SENIOR WATER PROFESSIONALS**

Chairs:

Ibrahimplari A. IWA YWP Steering Committee - Eastern Europe (ALBANIA)

Loderer C. IWA YWP Steering Committee - Western Europe (AUSTRIA)

18:00 – 18:30 **IWA AND POLISH YWP CHAPTER**

All Young and Senior water professional from Poland are invited to the discussion about establishment of Polish IWA YWP chapter.

Chair: Drewnowski J. (POLAND)

Małkinia J. - Chairman Conference Program Committee, Vice-rector for cooperation and innovation, Head of the Department of Sanitary Engineering Gdańsk University of Technology (POLAND)

Drewnowski J. - Gdansk University of Technology (POLAND)

Ibrahimplari A. IWA YWP Steering Committee - Eastern Europe (ALBANIA)

Loderer C. IWA YWP Steering Committee - Western Europe (AUSTRIA)

19:00 – 23:00 **VISIT AND GALA DINNER IN THE EUROPEAN SOLIDARITY CENTRE (ECS)**

The ECS is a state-of-the-art cultural institution that honors our greatest civic success — the victorious Solidarity movement. It is a museum that commemorates the revolution of Solidarity and the fall of communism in Europe, but it is also an educational, research and academic center, an archive, library and multimedia library.

Last but not least, it is a public meeting space for citizens who feel responsible for the development of democracy: a place where solidarity and citizenship are put into practice.

Please register on the website for the Conference Registration. The price 50 Euro includes: bus transfer from Conference Hall to the European Solidarity Centre (the bus will leave at 18:30), visit of the European Solidarity Centre, dinner, drinks, live music and social program.

The address:

Plac Solidarnosci 1, 80-863 Gdansk

+48 58 772 40 00

Please consider that the cost is not included in the registration fee, preliminary registration is required.



8:30 – 10:40 **WATER (Part 2 - WATER MANAGEMENT)**

Chair: Bumbac C. (ROMANIA) and Szlachta M. (POLAND)

8:30 – 8:40 THE ASSESSMENT APPROACH FOR THE POTENTIAL OF RIVERS IN THE SOUTH-WEST PART OF LAKE SEVAN AS SPAWNING AREAS FOR SEVAN TROUT
Asatryan V., Barseghyan N., Dallakyan M., Vardanyan T.
Institute of Hydroecology and Ichthyology of SCZHE of National Academy of Sciences of The Republic of Armenia (ARMENIA)

8:40 – 8:50 MONITORING PESTICIDES IN GROUNDWATER IN SLOVAK REPUBLIC
Roško V., Červeňanská P.
Water research institute in Bratislava (SLOVAK REPUBLIC)

8:50 – 9:00 DISTRIBUTION OF HEAVY METALS IN THE ENVIRONMENTAL SAMPLES OF THE VOGHJI RIVER BASIN IMPACTED BY MINING ACTIVITIES
Gabrielyan A., Shahnazaryan G., Minasyan S.
Environmental Impact Monitoring Centre (ARMENIA)

9:00 – 9:10 TAKING INTO ACCOUNT ENERGY LOSSES UNDER CALCULATION THE FREE-SURFACE PROFILE OF UNDULAR JUMP
Halych O.
Department of Hydropower, Heatpower Engineering and Hydraulic Machines, National University of Water and Environmental Engineering (UKRAINE)

9:10 – 9:20 PROJECTED CHANGES OF DISCHARGE FOR FAR-FUTURE (2071-2100) OVER COASTAL REGION, VIETNAM: A CASE STUDY OF THI VAI CATCHMENT
Thanh N., Meon G.
Department of Hydrology, Water Management and Water Protection, University of Braunschweig (GERMANY/VIETNAM)

9:20 – 9:30 METAL CONCENTRATION, POLLUTION LOADS AND EFFECTS IN HIGHWAY STORMWATER RUNOFF FOR DRINKING WATER SOURCE
Çelebi A., Özdemir S., Canseven N., Uzun H.
Department of Environmental Engineering, Sakarya University (TURKEY)

9:30 – 9:40 THE REGIONAL GIS MODELLING FOR GROUNDWATER RESOURCES MONITORING AND MANAGEMENT
Davybida L., Tymkiv M.
Department of Geotechnogenic Safety and Geoinformatics of Ivano-Frankivsk National Technical University of Oil and Gas (UKRAINE)

9:40 – 9:50 CALCULATION OF INTEGRATED INDICATORS FOR WATER QUALITY ASSESSMENT
Stroganova M., Kushnerov A., Ivanova I., Vasyukova E.
The Higher School of Technology and Power of St. Petersburg State University of Industrial Technologies and Design (RUSSIA)

9:50 – 10:00 WATER RESOURCES AND HYDROLOGICAL HAZARDS IN NORTH CAUCASUS UNDER THE IMPACT OF RECENT CLIMATE CHANGE
Rets E., Kireeva M., Frolova N., Loshakova N.
Water Problems Institute, Russian Academy of Sciences (RUSSIA)

10:00 – 10:10 INVESTIGATION OF PHYTOPLANKTON COMMUNITY IN “YEREVANYAN LICH” RESERVOIR AND THE HRAZDAN RIVER IN THE CONDITIONS OF ALGAL BLOOM
Mamyan A., Gevorgyan G., Stepanyan L., Hambaryan L.
Institute of Hydroecology and Ichthyology of the Scientific Center of Zoology and Hydroecology of NAS RA (ARMENIA)

10:10– 10:30 **Questions**

10:30 – 11:00 **Coffee-break and Posters Session (Courtyard)**

11:00 – 12:30

WASTE WATER (Part 3)

Chair: Wójtowicz P. (POLAND) and Heinrichmeier J. (GERMANY)

11:00 – 11:10

PRODUCT FORMATION DURING MIXED CULTURE FERMENTATION OF DIFFERENT CARBON SOURCES
Chwiałkowska J., Jankowska E., Stodolny M., Oleskiewicz-Popiel P.
Poznan University of Technology (POLAND)

11:10 – 11:20

START-UP STRATEGY FOR NUTRIENT REMOVAL IN MOVING BED SEQUENCING BATCH BIOFILM REACTOR
Sytek-Szmeichel K., Podedworna J., Augustyniak P.
Faculty of Environmental Engineering, Warsaw University of Technology (POLAND)

11:20 – 11:30

REMOVAL OF Cd(II) AND Zn(II) FROM BINARY AQUEOUS SOLUTIONS ONTO NATURAL ZEOLITE BY THE COLUMN PROCESS
Nuić I., Trgo M., Vukojević Medvidović N., Ugrina M.
Faculty of Chemistry and Technology, Department of Environmental Engineering, University of Split (CROATIA)

11:30 – 11:40

EVALUATION OF VARIOUS SAMPLES OF ACTIVATED SLUDGE FOR A START-UP OF PHARMACEUTICAL WASTEWATER TREATMENT PLANT
Šabić M., Vuković Domanovac M., Meštrović E.
Department of Industrial Ecology, Faculty of Chemical Engineering and Technology, University of Zagreb (CROATIA)

11:40 – 11:50

THE ROLE OF BIODEGRADABLE PARTICULATE ORGANIC SUBSTRATES IN ANAEROBIC DIGESTION SYSTEMS
Rubio J., Romero L., Garcia Morales J., Drewnowski J., Fernandez-Morales F
Department of Environmental Technologies, Faculty of Marine and Environmental Sciences, University of Cadiz (SPAIN)

11:50 – 12:00

ELIMINATION OF SELECTED PHARMACEUTICALS FROM MUNICIPAL WASTEWATER IN VERTICAL FLOW CONSTRUCTED WETLANDS: THE EFFECT OF OPERATION MODE AND VEGETATION
Nowrotek M., Sochacki A., Felis E., Miksch K.
Silesian University of Technology, Environmental Biotechnology Department (POLAND)

12:00 – 12:10

PERFORMANCE OF PILOT WASTEWATER TREATMENT PLANT BASED ON CONSTRUCTED WETLANDS
Lavrić S., Cristino S., Mancini B., Mancini M.
University of Cadiz (SPAIN)

12:10 – 12:20

CAN DNA SEQUENCING SHOW DIFFERENCES BETWEEN MICROBIAL COMMUNITIES IN POLISH AND DANISH WASTEWATER TREATMENT PLANTS?
Miłobędzka A., Muszyński A.
Faculty of Building Services, Hydro and Environmental Engineering, Department of Biology, Warsaw University of Technology; Department of Molecular Phylogenetics and Evolution, Institute of Botany, University of Warsaw (POLAND)

12:20 – 12:30

Questions

12:30 – 13:30

Lunch (Courtyard)

13:30 – 15:30

WATER (Part 3 - OTHER TOPICS)

Chair: Loderer C. (AUSTRIA) and Lavrić S. (SERBIA)

13:30 – 13:40

OWNERSHIP AND PERFORMANCE IN WATER SERVICES REVISITED: DOES PRIVATE MANAGEMENT REALLY OUTPERFORM PUBLIC?
Suárez-Varela M., De los Ángeles García-Valiñas M., González-Gómez F., Picazo-Tadeo A.
Universidad de Valencia (SPAIN)

13:40 – 13:50

30 YEARS OF WATER REUSE IN SPAIN. LOOKING BACK TO TACKLE THE FUTURE
Borge Izquierdo A.
AEAS (Spanish Association of Water Supply and Sanitation) (SPAIN)

13:50 – 14:00

PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE IN PRESENCE OF TiO₂ NANOTUBES SYNTHESIZED BY ANODIC OXIDATION
Zaragoza P., Chávez A., Barrera C., Jiménez B.
Universidad Nacional Autónoma de México, Instituto de Ingeniería de la UNAM (MEXICO)

14:00 – 14:10

TOXICOLOGICAL APPROACH AND CONTRIBUTIONS TO WATER QUALITY MANAGEMENT
İkizoğlu Z.R., Çelebi A.
Department of Environmental Engineering, Sakarya University (TURKEY)

14:10 – 14:20	APPLICATION OF COMMERCIAL ADSORBENTS FOR LANDFILL LEACHATE TREATMENT ON SANITARY LANDFILL IN DEVELOPING COUNTRY Djogo M., Mihajlovic I., Brboric M., Pap S., Bezanovic V., Ubavin D. University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering (SERBIA)
14:20 – 14:30	SIMULINK BASED MODEL OF THE FLOW CONTROL OF CENTRIFUGAL PUMPS Gevorkov L. Tallinn University of Technology (ESTONIA) Mikhelashvili I. ACT Research (GEORGIA)
14:30 – 14:40	MINE WATER TREATMENT TECHNOLOGY– APPLICATION OF ELECTRODIALYSIS: LABORATORY AND PILOT EXPERIMENTS Chromíková J., Thomas J., Malíková P., Heviánkov S. Institute of Clean Technologies for Mining and Utilization of Raw Materials for Energy Use, Faculty of Mining and Geology, VŠB – Technical university of Ostrava (CZECH REPUBLIC)
14:40 – 14:50	REMEDICATION OF URANIUM CONTAMINATED WATER BY ANAEROBIC MICROORGANISMS Kerimbaeva G., Ugurlu A. Department of Environmental Engineering, University of Hacettepe, Beytepe, Ankara (TURKEY)
14:50 – 15:00	ASH FROM GASIFICATION OF POULTRY FEATHERS TO REMOVE CD, CU AND ZN FROM AQUEOUS SOLUTIONS Kasinski S., Gusiati Z., Kowal P. Faculty of Environmental Sciences, Department of Environmental Biotechnology, University of Warmia and Mazury in Olsztyn (POLAND)
15:00 – 15:10	EVALUATION OF WATER EFFICIENCY PROGRAMS IN SINGLE FAMILY HOUSEHOLDS IN THE UK- A CASE STUDY Manouseli D., Kayaga S., Kalawsky R. Department of Civil & Building Engineering, Loughborough University (UNITED KINGDOM)
15:10 – 15:20	MODELLING THE HYDROGEN SULPHIDE REMOVAL IN A NEW ROTATING BED BIOFILM REACTOR Spennati F., Rossi S., Mori G., Munz G. Department of Civil and Environmental Engineer of University of Florence (ITALY)
15:20 – 15:30	Questions
15:30 – 16:00	Coffee-break and Posters Session (Courtyard)
16:00 – 17:30	<u>WASTE WATER (Part 4)</u> Chair: Drewnowski J. (POLAND) and Ibrahimlari A. (ALBANIA)
16:00 – 16:10	SELECTION OF PHA STORING BIOMASS UNDER AEROBIC FEAST AND ANOXIC FAMINE REGIME FOR NITROGEN REMOVAL VIA-NITRITE FROM ANAEROBIC SUPERNATANT Frison N., Cruthik D., Tayà C., Fatone F. Department of Biotechnology, University of Verona, Strada Le Grazie (ITALY)
16:10 – 16:20	ANALYSIS OF THE POSSIBILITY OF CO-FERMENTATION OF SEWAGE AND WATER SLUDGE Górka J., Cimochoicz-Rybicka M. Department of Environmental Engineering, Cracow University of Technology (POLAND)
16:20 – 16:30	INTRODUCTION OF LECANE TENUISETA ROTIFERS INTO SBR-MODEL SYSTEM IMPROVES SLUDGE SETTLEABILITY AT LOW TEMPERATURE. Kocerba-Soroka W., Fiałkowska E., Pajdak-Stós A., Sobczyk M., Starzycka J., Fyda J. Institute of Environmental Sciences, Jagiellonian University (POLAND)
16:30 – 16:40	ANALYSIS OF GROWTH RATES OF THE MICRO ALGAE CHLORELLA VULGARIS IN DIFFERENT CULTURE MEDIA AND WASTE WATER Zydorczyk S., Schmuck S., Mietzel T. Universität Duisburg Fakultät für Ingenieurwissenschaften Abteilung Bauwissenschaften Fachgebiet Siedlungswasserwirtschaft und Abfallwirtschaft (GERMANY)
16:40 – 16:50	PHYSICO-CHEMICAL TREATMENT OF LIQUID WASTE ON AN INDUSTRIAL PLANT FOR ELECTROCOAGULATION Mlakar M., Levstek M., Stražar M. JP CČN Domžale Kamnik d.o.o. (SLOVENIA)
16:50 – 17:00	TRACER STUDY OF DISPERSION IN FULL-SCALE ACTIVATED SLUDGE SYSTEM Wielgat P., Zima P. Gdansk University of Technology, Faculty of Civil and Environmental Engineering (POLAND)
17:00 – 17:10	USE OF CHLORINE COMPOUNDS FOR WASTEWATER DISINFECTION Johanidesová I., Bindzar J., Lama S., Słabuszewska M., Čiháková P., Wanner J. Department of Water Technology and Environmental Engineering, University of Chemistry and Technology Prague (CZECH REPUBLIC)
17:10 – 17:30	Questions

17:30 – 18:30

GDANSK WATER AND SEWAGE SYSTEM

Chair: Drewnowski J. (POLAND)

Swinarski M. - Gdansk Water and Sewage System (GIWK, POLAND)
Gluchowski J. - Saur Neptun Gdansk (SNG, POLAND)

18:30 – 19:00

AWARD FOR THE BEST PLATFORM AND POSTER PRESENTATIONS & CLOSING CEREMONY

Chair: Mąkinia J. (POLAND) and Feierabend M. (BELGIUM)

(The winners can present their papers on 9th Eastern European IWA YWP Conference. The winners will have free registration for the 9th Eastern European IWA YWP Conference)

19:30 – 23:00

DINNER ON THE OLD SHIP

Please register on the website for the Conference Registration. The price 35 Euro includes: bus transfer from Conference Hall to the boat (the bus will leave at 19:00), dinner, drinks, live music.

The address: Will be indicated

Please consider that the cost is not included in the registration fee, preliminary registration is required.



10 YEARS OF REAL-TIME CYANOBACTERIA MONITORING IN LAKE LITTOISTENJÄRVI

Laaksonlaita J., Loisa O., Leskinen P.

Turku University of Applied Sciences, Faculty of Technology, Environment and Business Faculty of Technology, Environment and Business (FINLAND)

A NOVEL MODEL APPROACH CONSIDER THE INFLUENCE AND TIME DEPENDENCE OF HIGH NO₂ CONCENTRATIONS ON THE N₂O ACCUMULATION DURING DENITRIFICATION

Vogel B., Beier M., Rosenwinkel K.

Institute for Sanitary Engineering and Waste Management (ISAH), Leibniz University Hannover (GERMANY)

AERATION IN SIDE STREAM NITRIFICATION - DIFFERENT PROCESS RATE, DIFFERENT AERATION EFFICIENCY

Miodoński S., Janiak K., Muszyński-Huhajło M.

Faculty of Environmental Engineering, Wrocław University of Technology (POLAND)

AEROBIC BIODEGRADATION OF 2,4-DICHLOROPHENOXYACETIC ACID PESTICIDE

Carboneras B., Villaseñor J., Fernandez-Morales F.J.

University of Castilla-La Mancha, ITQUIMA, Chemical Engineering Department (SPAIN)

AEROBIC GRANULAR SLUDGE REACTOR START-UP: FOCUSING ON MICROBIAL DIVERSITY AND GRANULE MORPHOLOGY

Bumbac C., Ionescu I., Tiron O.

Environmental Biotechnologies National Research and Development Institute for Industrial Ecology – ECOIND (ROMANIA)

ALGAE GROWTH CHARACTERISTICS TREATING ANAMMOX EFFLUENT

Jaroszynski L.W., Jaroszynski T.

Poznan University of Technology, Department of Civil Engineerin (POLAND)

ANAMMOX BACTERIA ULTRASTRUCTURE, COMPOSITION, AND BIODIVERSITY CHANGES IN A SBR PILOT – SCALE BIOREACTOR

Banach A., van Niftrik L., Mesman R., Ziemińska-Buczyńska A.

The Silesian University of Technology, Faculty of Power and Environmental Engineering, Environmental Biotechnology Department (POLAND)

APPLICATIONS OF THE WHITE-ROT FUNGAL LACCASES IN DYES DECOLORIZATION PROCESSES

Tiron O., Bumbac C., Cristea I.

National Research and Development Institute for Industrial Ecology – ECOIND (ROMANIA)

ARTIFICIAL FLUCTUATION OF WATER-LEVEL AND ASSOCIATED EFFECT ON WATER QUALITY OF THE HIGH-MOUNTAIN LAKE SEVAN

Hovhannisyan A., Shahnazaryan G.

Environmental Impact Monitoring Center (ARMENIA)

BUFFERING AND MANAGEMENT OF TRAFFIC ORIGIN POLLUTANTS IN THE IMPORTANT LAKES

Çelebi A., Özdemir S., Uçku T.

Department of Environmental Engineering, Sakarya University (TURKEY)

COD FRACTIONS AND THE ACTIVITY OF AEROBIC MICROORGANISMS IN THE PROCESS OF HYDRODYNAMIC DISINTEGRATION OF ACTIVATED SLUDGE

Walczak J., Zubrowska-Sudol M., Garlicka A.

Department of Water Supply and Wastewater Treatment, Faculty of Building Services, Hydro and Environmental Engineering, Warsaw University of Technology (POLAND)

CO-DIGESTION OF ANIMAL MANURE AND ALKALINE PRE-TREATED BANANA STALK FOR OPTIMIZED BIOGAS PRODUCTION

Aghayev E., Kendir E., Ugurlu A.

Department of Environmental Engineering, University of Hacettepe, Beytepe, Ankara (TURKEY)

COMMUNITY STRUCTURE OF HYDRAULIC SYSTEMS

Varga R., Hős Cs.

Department of Hydraulic Systems, Budapest University of Technology and Economics, Faculty of Mechanical Engineering (HUNGARY)

COMPARISON OF DESIGNED AND REAL ELECTRIC ENERGY CONSUMPTION BY AN SBR REACTOR

Ciepliński J., Rybicki S. M.

Instytut Zaopatrzenia w Wodę i Ochrony Środowiska, Wydział Inżynierii Środowiska, Politechnika Krakowska (POLAND)

CONCEPT OF “RISK MANAGEMENT” AND OPTIMIZATION OF WATER SUPPLY IN TRANSPORT

Strikalenko T., Liapin A., Liapina E.

Odessa National Academy of Food Technology (UKRAINE)

COUPLED URBAN AREAS INUNDATION MODEL WITH INTERACTION BETWEEN STORM WATER SYSTEM AND SURFACE FLOW – CASE STUDY OF SEA LEVEL IMPACT ON SEASIDE AREAS FLOODING
 Hakiel J., Szydłowski M., Gąsiorowski D.
 Department of Hydraulic Engineering, Faculty of Civil and Environmental Engineering, Gdańsk University of Technology (POLAND)

DECOMPOSITION OF XENOBIOTICS DURING VISIBLE LIGHT IRRADIATION IN THE PRESENCE OF IMMOBILIZED PHOTSENSITIZERS - KINETICS STUDY
 Olak-Kucharczyk M., Foszpańczyk M., Ledakowicz S., Gmurek M.
 Lodz University of Technology,
 Faculty of Process and Environmental Engineering, Department of Bioprocess Engineering (POLAND)

DEGRADATION OF DEET AND DEP BY OZONATION USING PCBA AS A HYDROXYL RADICALS PROBE COMPOUND
 Migowska A.
 Gdansk University of Technology (POLAND)

DETERMINATION OF COD FRACTIONATION AS A KEY FACTOR FOR APPROPRIATE MODELLING AND MONITORING OF ACTIVATED SLUDGE PROCESSES
 Fudala-Książek S., Remiszewska-Skwarek A., Drewnowski J., Luczkiewicz A.
 Water and Sewage Management Utility Ltd. in Gdynia (POLAND)

EFFECT OF CURRENT DENSITY ON SUSPENDED SOLID REMOVAL FROM CERAMIC INDUSTRY WASTEWATER FOR ELECTROCOAGULATION WITH IRON ELECTRODES
 Emir G., Yavuz Y.
 Department of Environmental Engineering, Anadolu University (TURKEY)

EFFECT OF PH ON EFFICIENCY OF SORPTION/DESORPTION OF HEAVY METALS ON NATURAL AND IRON-MODIFIED ZEOLITE
 Ugrina M., Vukojević Medvidović N., Trgo M., Nuić I.
 University of Split, Faculty of Chemistry and Technology (CROATIA)

EFFECT OF SURFACTANTS ON DENITRIFICATION IN BIOLOGICAL MUNICIPAL WASTEWATER TREATMENT
 Rossinskyi V., Sablii L.
 Department of Ecobiotechnology and Bioenergy, National Technical University of Ukraine «Kyiv Polytechnic Institute» (UKRAINE)

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EFFICACY EVALUATION OF BIOSORPTION OF ANTI-EPILEPTIC DRUG – CARBAMAZEPINE ONTO LOW - COST ADSORBENT PREPARED FROM APRICOT STONES
 Novaković M., Pap S., Bežanović V., Mihajlović I., Djogo M., Radonić J., Turk-Sekulić M.
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EMISSIVITY OF COMBUSTION OF SEWAGE SLUDGE
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GENOTOXICITY OF SELECTED PHARMACEUTICALS
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GREYWATER TREATMENT IN A LIVING WALL SYSTEM (LWS)

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IMPACT OF SECTORISATION ON IMPROVEMENT OF EFFICIENCY OF WATER SUPPLY NETWORK

Głuchowski J., Obropta M., Bławat W.

Department Bureau of Studies, Saur Neptun Gdańsk SA (POLAND)

INFLUENCE OF SELECTED CORROSION INHIBITORS ON BIOLOGICAL WASTEWATER TREATMENT

Kowalska K., Felis E.

Environmental Biotechnology Department, Silesian University of Technology (POLAND)

INTERNATIONAL COOPERATION FOR SUSTAINABLE TREATMENT AND MANAGEMENT OF WATERS FROM GOLD MINES

Szlachta M., Wójtowicz P., Włodarczyk P., Pasanen A., Backnäs S.

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INTERPLAY OF LABORATORY ANALYSES AND FULL SCALE OPERATION DATA USING THE EXAMPLE OF TROUBLE SHOOTING OF SLUDGE DIGESTION BEHAVIOR

Heinrichmeier J., Shatunova D.

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ISOLATION AND CHARACTERISTICS OF SULFOMETHOXAZOLE RESISTANT BACTERIA ISOLATED FROM CONSTRUCTED WETLAND SYSTEM TREATING PHARMACEUTICAL WASTEWATER

Ziemińska-Buczyńska A., Wyszyńska K., Miksch K.

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LEAD (PB) INHIBITION OF ANAMMOX BIOMASS AFTER SHORT-TERM EXPOSURE – BATCH EXPERIMENTS

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MAGNETIC ACTIVATED CARBON COMPOSITES USED AS FENTON LIKE CATALYST FOR DEGRADING PHARMACEUTICAL AGENTS

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METHODOLOGICAL BASES OF AN ASSESSMENT OF IMPACT OF DREDGING WORKS ON THE WATER AREA

Shishkin A., Epifanov A., Epifanova M.

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MODEL BASED EVALUATION OF A FULL-SCALE INDUSTRIAL WASTEWATER TREATMENT PLANT WITH LIMITED MONITORING DATA

Kirim G., Karahan Özgün Ö.

Environmental Solutions R&D Co., ITU Ayazağa Kampüsü (TURKEY)

MODULAR FERTIGATION SYSTEM WITH INTEGRATED AND ADAPTIVE OPERATOR

Ratiu C., Chis I., Ucenic C.

Department of Engineering Design and Industrial Robots, Technical University Cluj-Napoca (ROMANIA)

MONITORING OF BACTERIAL BIOFILM GROWTH BY IMPEDANCE SPECTROSCOPY- PRELIMINARY RESEARCH

Wolf M., Traczewska T.

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NEED TO PROVIDE SAFETY WATER IN RIVER BASIN IN KORCA CITY

Kokojka S.

Korca Join Stock Company (ALBANIA)

ONE VS. TWO-STEP HYDROLYSIS PROCESS OF SLOWLY BIODEGRADABLE ORGANIC COMPOUNDS IN ACTIVATED SLUDGE SYSTEMS – EXPERIMENTAL Investigation and Mathematical Modelling

Drewnowski J.

Gdansk University of Technology, Faculty of Civil and Environmental Engineering (POLAND)

OPTIMIZATION OF REACTIVE BLACK 5 DYE REMOVAL BY ELECTROCOAGULATION PROCESS USING RESPONSE SURFACE METHODOLOGY

Mook W., Aroua M., Szlachta M.

Department of Chemical Engineering, University of Malaya / Department of Environmental Engineering, Wrocław University of Technology (POLAND/MALAYSIA)

OXIDATION AND MINERALIZATION BY OZONE BASED AOPS OF SIMULATED TEXTILE WASTEWATER CONTAINING REACTIVE YELLOW145, REACTIVE RED 195 and Reactive Blue 221

Bilińska L., Gmurek M., Ledakowicz S.

Textile Company Biliński (POLAND)

PILOT INVESTIGATION AS A CASE OF SCIENCE AND INDUSTRY COOPERATION AREA
 Szerzyna S., Mołczan M., Wolska M., Adamski W., Wiśniewski J.
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PILOT STUDIES OF PHOSPHOROUS RECOVERY FROM WASTEWATER AS AN EXAMPLE OF COLLABORATION BETWEEN INDUSTRIAL AND ACADEMY SECTOR
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 Danilycheva M., Pervov A., Andrianov A.
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 Kovalenko O., Kormosh K., Vasyliv O.
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RECOVERY OF ANAMMOX BIOMASS AT SHORT HYDRAULIC RETENTION TIME IN A MBR REACTOR
 Wisniewski K., Makinia J.
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REMOVAL OF LEAD FROM SIMULATED WASTEWATER USING COMBINATION OF ELECTROCOAGULATION AND ADSORPTION TECHNIQUE
 Hussin F., Aroua M., Szlachta M.
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SLUDGE AGE: HOW TO GET MORE PHOSPHORUS IN WWTP EFFLUENT FOR ITS RECOVERY?
 Johanidesová I., Fuka T., Růžičková I., Pečenka M., Vejmelková D., Studničková M., Wanner J.
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THE APPLICATION OF INTELLIGENT ELECTROMAGNETIC FLOW METERS IN THE PUMP - STATIONS OF « ELBASAN VILLAGE »
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THE APPLICATION OF MONOD EQUATION TO DESCRIPTION OF DENITRIFICATION KINETICS IN MOVING BED BIOFILM REACTOR

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THE COMPARISON OF SLUDGE INVESTIGATION METHODS ACCURACY

Sobczyk M., Pajdak-Stós A., Fiałkowska E., Kocerba-Soroka W., Starzycka J., Fyda J.
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THE COMPUTER MODELING OF FLOWS IN THE EXEMPLARY WATER SUPPLY SYSTEM; THE PROBLEM OF THE OVERSIZED WATER-PIPE NETWORK – CASE STUDY

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Gdansk University of Technology, Faculty of Civil and Environmental Engineering Department of Sanitary Engineering (POLAND)

THE IMPACT OF CONSTRUCTION ACTIVITIES ON WATERSHED WATER QUALITY AND TOTAL LOADING

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Starzycka J., Fiałkowska E., Walczyńska A., Kocerba-Soroka W., Sobczyk M., Fyda J., Pajdak-Stós A.
Institute of Environmental Sciences, Jagiellonian University (POLAND)

THE INFLUENCE OF SELECTED ANTIBIOTICS ON THE WASTEWATER TREATMENT PROCESS AND THE DEVELOPMENT OF ANTIBIOTIC RESISTANT BACTERIA

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Faculty of Building Services, Hydro and Environmental Engineering, Warsaw University of Technology (POLAND)

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Department of Chemical Engineering, Aristotle University of Thessaloniki (GREECE)

TREATMENT OF REJECT WATER FROM ANAEROBIC DIGESTION OF SLUDGE BY THE NITRIFICATION-DENITRIFICATION REACTOR SBR.

Majtac J., Al-Hazmi H.
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ULTRAFILTRATION MEMBRANES FORMED FROM POLYANILINE, IONIC LIQUID AND CELLULOSE - TRANSPORT PROPERTIES AND ENERGY EFFICIENCY

Wilk B.
Institute of Water Supply and Environmental Protection, Cracow University of Technology (POLAND)

USING ON-LINE MEASUREMENT BY ELECTRONIC NOSE AND COMPUTER SIMULATIONS FOR REAL-TIME CONTROL AT WWTP

Guz Ł., Drewnowski J., Łagód G., Piotrowicz A., Suchorab Z., Jaromin-Gleń K.
Lublin University of Technology (POLAND)

WATER NETWORKS' IMPROVEMENT OF SETTLEMENTS IN UKRAINE

Novytska O., Tkachuk O.
National University of Water Management & Nature Resources Use (UKRAINE)

WATER SUPPLY IN THE REPUBLIC OF SERBIA – STATE AND PERSPECTIVES

Langović M.
Faculty of Geography, University of Belgrade (SERBIA)

WILLINGNESS TO PAY FOR IMPROVEMENTS IN WATER SERVICES IN TERENGGANU, MALAYSIA: FROM DOMESTIC CONSUMERS' PERSPECTIVE

Mahirah K., Alias R., Azlina A., Zuraini A.
School of Social and Economic Development, Universiti Malaysia Terengganu (MALAYSIA)

WIND GENERATION POWERED PUMPED-STORAGE HYDROELECTRICITY AS A FULLY DISPATCHABLE POWER UNIT - CASE STUDY POMERANIA AND WEST POMERANIA PROVINCES - POLAND

Jurasz J., Mikulik J., Piasecki A.
AGH University, Faculty of Management, Department of Engineering Management (POLAND)

9:00 - 12:00

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Guided tour of the Old Town. On the route of the walk: Golden Gate, Town Hall, Neptune fountain, Artus Court, gothic St. Mary's Church. Walk to "Żuraw" on the Motława River – the biggest port crane of medieval Europe. More information will be indicated soon.

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