

11th Eastern European Young Water Professionals Conference



Conference Program

Water for All - Water for Nature,
Reliable Water Supply, Wastewater
Treatment and Reuse

1-5 October 2019, Prague, Czech Republic
<http://iwa-ywp.eu/>



Organised by:



More information:



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Czech Water
Association



The Faculty of Civil Engineering of the Czech Technical University in Prague



The Faculty of Agrobiological, Food and Natural Resources of the Czech University of Life Sciences Prague



The Water Supply and Sewerage Association of the Czech Republic

Co-organised by:



YWP CZ



Budapest University of Technology and Economics



Wrocław University of Science and Technology



The Faculty of Chemical and Food Technology of the Slovak University of Technology

TUESDAY - 1 OCTOBER 2019

Pre-conference workshops

All workshops will take place in the Conference Center - Masarykova Kolej, adress: Thakurova 1, Prague 160 41

09:00 – 13:00

MODELLING ACTIVATED SLUDGE PLANTS

Morning session. The course will provide detailed instruction on mathematical models, their structure and use in practice such as design, operation and control in activated sludge plants.

Langergraber G., Rieger L.

University of Natural Resources and Life Sciences (BOKU) (AUSTRIA), inCTRL Solutions (CANADA)

13:00 – 14:00

LUNCH BREAK

Lunch will not be included in the registration fee, but it will be available on site

14:00 – 17:00

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14:00 – 17:00

WATER UTILITY 2030 - DIGITAL CUSTOMERS, OPERATION, MANAGEMENT

The workshop will concentrate on the smart technologies in water sector and their influence on shaping the future of water utilities.

Hasenleithner C.

Energie AG Bohemia (AUSTRIA)

WEDNESDAY - 2 OCTOBER 2019

Pre-conference workshops

09:00 – 13:00

MODELLING ACTIVATED SLUDGE PLANTS

Morning session. The course will provide detailed instruction on mathematical models, their structure and use in practice such as design, operation and control in activated sludge plants.

Langergraber G., Rieger L.

University of Natural Resources and Life Sciences (BOKU) (AUSTRIA), inCTRL Solutions (CANADA)

09:00 – 13:00

INTRODUCTION TO UTILITY BENCHMARKING

Morning session. The workshop, developed and delivered by IAWD, will introduce utility benchmarking as basis for performance improvement of a utility. It will focus on water utility benchmarking types and initiatives relevant for Eastern Europe.

Schilling K., Krstić A.

The International Association of Water Supply Companies in the Danube River Catchment Area (AUSTRIA)

09:00 – 13:00

TECHNICAL TOUR TO WASTEWATER TREATMENT PLANT

The participants will see the Prague wastewater treatment plant and get the main information on its history, operation and significance.

13:00 – 14:00

LUNCH BREAK

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14:00 – 17:00

MODELLING ACTIVATED SLUDGE PLANTS

Afternoon session. The course will provide detailed instruction on mathematical models, their structure and use in practice such as design, operation and control in activated sludge plants.

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Schilling K., Krstić A.

The International Association of Water Supply Companies in the Danube River Catchment Area (AUSTRIA)

14:00 – 17:00

HOW TO PRESENT

Participants will be given some practical advices and some useful aspects for preparing and polishing their platform and poster presentations.

Bakos V., Filipić A.

Budapest University of Technology and Economics (HUNGARY), National Institute of Biology (SLOVENIA)

Workshops Plan, several workshops are running at the same time:

1 st October 2019 (Tuesday)		2 nd October 2019 (Wednesday)	
Morning 09:00 – 13:00	Afternoon 14:00 – 18:00	Morning 09:00 – 13:00	Afternoon 14:00 – 18:00
<i>Modelling Activated Sludge Plants</i>			
	Water Utility 2030	<i>Introduction to utility benchmarking</i>	
		<i>Technical tour to wastewater treatment plant</i>	<i>How to present</i>

Foto: Workshop How to Present during the 10th IWA YWP in Zagreb 2018.



WEDNESDAY - 2 OCTOBER 2019

17:00 – 18:00

PRELIMINARY REGISTRATION OF PARTICIPANTS

You can use this hour to register, give file with your presentation and place your posters. We will wait for you in the Conference Center - Masarykova Kolej, adress: Thakurova 1, Prague 160 41

18:00 – 20:00

WELCOME RECEPTION

Right after the preliminary registration we are going to start with Welcome Reception of participants.

WELCOME WORDS

Chair: Wanner J. Chair Program Committee, University of Chemistry and Technology (CZECH REPUBLIC)

Prof. Wanner J. - Chair Program Committee, University of Chemistry and Technology (CZECH REPUBLIC)

Prof. Jobbágy A. - Co-Chair Program Committee, Budapest University of Technology & Economic (HUNGARY)

Dr. Feierabend M. - Chair Organising Committee (GERMANY)

Vachova P. - Co-Chair Organising Committee (CZECH REPUBLIC)

Harciník F. - Chair IWA YWP of Czech Republic (CZECH REPUBLIC)



WELCOME DRINK

Join us for the welcome drink in Masarykova Kolej. It will take place right after Welcome Words. 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.

After the welcome drink you can discover the old town of Prague with members of the local organising committee, more information you will get during the welcome drink.

THURSDAY - 3 OCTOBER 2019

8:00 – 8:30

REGISTRATION OF PARTICIPANTS

Masarykova Kolej, adress: Thakurova 1, Prague 160 41

8:30 – 9:00

CONFERENCE OPENING

Chair: Wanner J.- Chair Program Committee, University of Chemistry and Technology (CZECH REPUBLIC)

Prof. Wanner J. - Chair Program Committee, University of Chemistry and Technology (CZECH REPUBLIC)

Prof. Jobbágy A. - Co-Chair Program Committee, Budapest University of Technology & Economic (HUNGARY)

Dr. Feierabend M. - Chair Organising Committee (GERMANY)

Vachova P. - Co-Chair Organising Committee (CZECH REPUBLIC)

Dejus S. - Co-Chair Organising Committee EE IWA YWP 2020 (LATVIA)

9:30 – 10:00

PRESENTATIONS OF SPONSORS

Chair: Feierabend M. - Chair Organising Committee (GERMANY)

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

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

Sponsor - company Energy AG BOHEMIA - presented by (AUSTRIA)

Sponsor - company Veolia - presented by Dr. Benes O. (CZECH REPUBLIC)

10:00 – 10:30

Coffee-break and Posters Session

10:30 – 12:30	<p><u>WASTEWATER - RESIDUAL MICROPOLLUTANTS: DETERMINATION AND REMOVAL</u></p> <p><u>Chair:</u> Lavrnić S. (University of Bologna, ITALY/SERBIA) and Förster G. (BESINO Environment Ltd., CHINA)</p>
10:30 – 10:40	<p>MICROPOLLUTANTS REMOVAL IN SUBMERGED MEMBRANE BIOREACTORS AT DIFFERENT SRT VALUES: VARIATIONS OF EXTRACELLULAR POLYMERIC SUBSTANCES Caglak A.; Erkan H.S.; Engin G.O. Yildiz Technical University (TURKEY)</p>
10:40 – 10:50	<p>POTENTIAL USE OF FILAMENTOUS FUNGI FOR DICLOFENAC REMOVAL FROM MUNICIPAL WASTEWATER Dalecka B.; Juhna T.; Rajarao G.K. KTH Royal Institute of Technology (SWEDEN)</p>
10:50 – 11:00	<p>PERFORMANCE OF RETENTION SOIL FILTERS FOR THE REDUCTION OF ANTIBIOTIC RESISTANT BACTERIA AND OTHER PATHOGENIC MICROORGANISMS IN RAW AND TREATED WASTEWATER BEFORE BEING DISCHARGED INTO SURFACE WATERS Zacharias N.; Essert M.; Schreiber C. University of Bonn (GERMANY)</p>
11:00 – 11:10	<p>COMBINED VUV PHOTOOXIDATION AND ADSORPTION ONTO GRANULATED ACTIVATED CARBON AS AN EFFECTIVE TECHNIQUE FOR POST-TREATMENT OF BIOLOGICALLY TREATED EFFLUENT WASTEWATER Krakkó D.; Elabadsa M.; Gombos E.; Varga M.; Dóbbé S.; Záray G.; Mihucz V.G. ELTE–Eötvös Loránd University (HUNGARY)</p>
11:10 – 11:20	<p>SUSTAINABLE PHOTOCATALYTIC DEGRADATION OF TRIMETHOPRIM USING S-TIO₂ AND RU/WO₃/ZRO₂ IMMOBILIZED ON REUSABLE FIXED PLATES Samy M.; Ibrahim M.G.; GarAlalm M.; Fujii M.; Ookawara S.; Ohno T. Egypt-Japan University of Science and Technology (EGYPT)</p>
11:20 – 11:30	<p>DEVELOPMENT OF A SENSITIVE AND ACCURATE METHOD FOR THE SIMULTANEOUS DETERMINATION OF SELECTED PESTICIDES USING SWITCHABLE SOLVENT BASED LIQUID PHASE MICROEXTRACTION PRIOR TO DETERMINATION BY GAS CHROMATOGRAPHY MASS SPECTROMETRY Dalgıç Bozyiğit G.; Fırat M.; Chormey D.S.; Onkal Enginand G.; Bakirdere S. Yıldız Technical University (TURKEY)</p>
11:30 – 11:40	<p>DETERMINATION OF SOME POPULAR DRUG RESIDUES OF DIVERSE THERAPEUTIC USE IN DIFFERENT WATER MATRICES IN A SINGLE CHROMATOGRAPHIC RUN BY MEANS OF LC-HRMS Licul-Kucera V.; Krakkó D.; Záray G.; Mihucz V.G. ELTE–Eötvös Loránd University (HUNGARY)</p>
11:40 – 11:50	<p>DEVELOPMENT OF A SENSITIVE AND ACCURATE METHOD FOR THE SIMULTANEOUS DETERMINATION OF SELECTED PESTICIDES USING SWITCHABLE SOLVENT BASED LIQUID PHASE MICROEXTRACTION PRIOR TO DETERMINATION BY GAS CHROMATOGRAPHY MASS SPECTROMETRY Dalgıç Bozyiğit G.; Fırat M.; Chormey D.S.; Onkal Enginand G.; Bakirdere S. Yıldız Technical University (TURKEY)</p>
11:50 – 12:00	<p>ECOTOXICITY EFFECTS OF CARBON NANOMATERIALS ON THE ACTIVATED SLUDGE MICROORGANISMS Tomaszewski M.; Galecki S.; Zgórska A.; Ziemińska-Buczyńska A. Silesian University of Technology (POLAND)</p>
12:00 – 12:10	<p>ELECTROSPINNING OF CELLULOSE NANOCRYSTALS EXTRACTED FROM AGRO-WASTE FOR FABRICATION OF COMPOSITE NANOFIBER MEMBRANE Elqady Hesham.I.; El-Shazly A.H.; El-Kady M.F.; Ali Abdallah Y.M.; Khalil Mohamed A. Egypt-Japan University of Science and Technology (EGYPT)</p>
12:10 – 12:20	<p>Short PPP for Posters : 31, 3, 24, 22, 28</p>
12:20– 12:30	<p>Questions</p>
12:30 – 13:30	<p>Lunch</p>

13:30 – 15:40

WASTEWATER - INDUSTRIAL WASTEWATER TREATMENT

Chair: Bakos V. (Budapest University of Technology and Economics, HUNGARY) and Mohseni E. (Technical University of Dresden, GERMANY)

13:30 – 13:40

OPTIMIZING PHOTO-FENTON PROCESS FOR REMOVAL COLOR AND ORGANIC COMPOUNDS FROM TEXTILE WASTEWATER

Atalay H.; Akbal F.
Ondokuz Mayıs University (TURKEY)

13:40 – 13:50

INDUSTRIAL WASTEWATER DISCHARGE TO MUNICIPAL SEWER SYSTEM IN COUNTRIES OF BALTIC SEA REGION

Dejus S.; Zviedris J.; Tihomirova K.; Juhna T.
Riga Technical University (LATVIA)

13:50 – 14:00

HYBRID TREATMENT FOR SEQUENTIAL REMOVAL OF PHENOL AND CYANIDE FROM COKE OVEN WASTEWATER BY NANOSCALE ZERO-VALENT IRON MEDIATED ADSORPTION AND BIOLOGICAL DEGRADATION

Tyagi M.; Jagadevan S.
Indian Institute of Technology (Indian School of Mines) INDIA

14:00 – 14:10

TREATMENT OF INDUSTRIAL WASTEWATER IN A CONTINUOUS TWO-PHASE PARTITIONING BIOREACTOR OPERATED WITH EFFLUENT RECYCLE

Mosca Angelucci D.; Tomei M.C.
Water Research Institute (ITALY)

14:10 – 14:20

PURIFICATION OF EMULSIFIED OIL BY POLYVINYLIDENE FLUORIDE/POLYVINYLPIRROLIDONE MEMBRANE

Nigiz F.U.; Yucak A.I.; Hilmioglu N.D.
University of Kocaeli (TURKEY)

14:20 – 14:30

SEQUESTRATION OF HEAVY METAL IN WASTE WATER USING POLYANILINE

Orleans-Boham H.; Elkady M.; El-Shazly Ahmed H.
Egypt-Japan University of Science and Technology (EGYPT)

14:30 – 14:40

ISOPROPANOL REMOVAL FROM PHARMACEUTICAL PROCESS WASTEWATER WITH COMBINATION OF DISTILLATION AND PERVAPORATION

Toth A.
Budapest University of Technology and Economics (HUNGARY)

14:40 – 14:50

RECOVERY OF CUTTING OIL FROM WASTEWATER BY PERVAPORATION PROCESS USING NATURAL CLAY MODIFIED PVA MEMBRANE

Unlu D.
Bursa Technical University (TURKEY)

14:50 – 15:00

OPTIMIZING CONTINUOUS PHOTO-FENTON PROCESS FOR REMOVAL COLOR AND ORGANIC COMPOUNDS FROM TEXTILE WASTEWATER

Atalay H.; Akbal F.
Ondokuz Mayıs University (TURKEY)

15:50 – 15:10

HIGH STRENGTH SLAUGHTERHOUSE WASTEWATER TREATMENT BY SEQUENTIAL ANAEROBIC AND AEROBIC BATCH REACTORS (ASBR-SBR)

Basheer F.; Sharma Aziz A.; D.; Farooqi I. H.
College of Engineering and Technology (INDIA)

15:10 – 15:20

Short PPP for Posters : 38, 32, 71, 68, 64

15:20 – 15:30

Questions

15:30 – 16:00

Coffee-break and Posters Session

- 16:00 – 17:10** **WASTEWATER - WATER REUSE; SBR ACTIVATED SLUDGE PROCESS**
- Chair: Sobotka D. (Gdansk University of Technology, POLAND) and Çelebi A. (Sakarya University, TURKEY)
- 16:00 – 16:10** WASTEWATER RECYCLING FOR USE IN WATER MANAGEMENT IN THE CITIES OF FUTURE
Peterková E.; Pečenka M.; Wanner J.; Nováková Z.; Srb M.
University of Chemistry and Technology of Prague (CZECH REPUBLIC)
- 16:10 – 16:20** THE EFFECT OF IRRIGATION USING SECONDARY AND ADVANCED TREATED WASTEWATERS ON SOIL
PROPERTIES UNDER KIKUYU GRASS PRODUCTION
Shahrivar A.A.; Hagare D.; Maheshwari B.; Rahman M.M.
Western Sydney University (AUSTRALIA)
- 16:20 – 16:30** TREATMENT OF OLÄVE MÄLL EFFLUENT WASTEWATER USÄ°NG SOME ADVANCED PROCESSES AND
REUSE OF THE TREATED WASTEWATER
Sponza D.T.; Bıyık Y.
Dokuz Eylül Üniversitesi (TURKEY)
- 16:30 – 16:40** COST EFFECTIVE IMPROVEMENT OF THE PERFORMANCE OF AN SBR SYSTEM USING A FLOATING SEAL
Szombathy P.; Jobbágy A.
Budapest University of Technology and Economics (HUNGARY)
- 16:40 – 16:55** **Short PPP for Posters : 25, 8, 29, 34, 50**
- 16:55 – 17:10** **Questions**

10:30 – 12:00 WATER MANAGEMENT - STORM WATER MANAGEMENT

Chair: Rudic Z. (Institute for the Development of Water Resources "Jaroslav Cerni", SERBIA) and Odud L. (National University of Water and Environmental engineering, UKRAINE)

- 10:30 – 10:40** EVALUATION ON THE FATE OF HEAVY METALS IN LOW IMPACT STRATEGIES TREATING URBAN STORMWATER RUNOFF
Geronimo F.K.F.; Redillas M.M.; Choi H.S.; Jeon M.S.; Kim L.H.
Kongju National University (SOUTH KOREA)
- 10:40 – 10:50** ASSESSMENT OF THE APPLICABILITY OF SWMM'S WATER QUALITY MODULE FOR GREEN ROOF
Hong S.; Kim H.; Limos A.G.; Yoon J.; Hong S.
Korea University (SOUTH KOREA)
- 10:50 – 11:00** LONG-TERM MONITORING OF RAIN GARDEN FOR URBAN PARKING LOT RUNOFF TREATMENT
Jeon M.; Geronimo F.K.; Choi H.; Lee-Hyung Kim
Kongju National University (SOUTH KOREA)
- 11:00 – 11:10** CONSTRUCTED WETLANDS AS NATURE-BASED SOLUTION FOR STORMWATER AND AGRICULTURAL RUNOFF TREATMENT
Reyes N.J.D.G.; Geronimo F.K.F.; Kim L.H.
Kongju National University (SOUTH KOREA)
- 11:10 – 11:20** DAILY RAINFALL-RUNOFF MODELLING BY SUPPORT VECTOR REGRESSION, SYMBOLIC REGRESSION AND GR4J MODELS
Sezen C.; Partal T.
Ondokuz Mayıs University (TURKEY)
- 11:20 – 11:30** URBAN RAINWATER HARVESTING SYSTEM: POSSIBLE APPLICATION FOR CAR WASHING
Andjelic L.; Andjelic N.; Jacimovic N.; Petkovic S.; Pavlovic M.; Vlajic D.
Mining Institute Ltd. (SERBIA)
- 11:30 – 11:40** APPLICATION OF SWMM SOFTWARE PACKAGE FOR MANAGEMENT OF RAINWATER DRAINAGE SYSTEMS OF URBAN BASINS AN EXAMPLE OF DRAINAGE FOR COMBINED CYCLE POWER PLANT
Andjelic N.; Andjelic L.; Ivanovic S.; Ivetic M.
Energoprojekt-Entel (SERBIA)

11:40 – 12:00 Questions

12:00 – 13:30 Lunch

13:30 – 15:20 WATER MANAGEMENT - SURFACE WATERS, GROUND WATERS, WETLANDS, AQUATIC CHEMISTRY

Chair: Filipic A. (National Institute of Biology, SLOVENIA) and Djogo M. (University of Novi Sad, SERBIA)

- 13:30 – 13:40** THE RAPID BIOLOGICAL ASSESSMENT OF ECOLOGICAL STATUS OF ARPA RIVER (ARMENIA)
Asatryan V.L.; Dallakyan M.R.
Institute of Hydroecology and Ichthyology (ARMENIA)
- 13:40 – 13:50** EFFECT OF EMERGING POLLUTANTS (PPCPS) ON THE SURVIVAL, GROWTH AND OXIDATIVE STRESS OF AQUATIC SPECIES WITH ECOLOGICAL AND ECONOMICAL RELEVANCE
Diaz-Sosa V.; Tapia-Salazar M.; Wannerand J.; Cardenas-Chavez D.
Tecnologico de Monterrey (BRAZIL)
- 13:50 – 14:00** SUSTAINABLE MEASURES IN WATER SOFTENING TECHNOLOGIES
Odud L.
Rivne Regional Water Supply Company (UKRAINE)
- 14:00 – 14:10** INTEGRATED ASSESSMENT OF TECHNOGENICLOAD ON WATER ECOSYSTEMS BASED ON BIODIVERSITY AND HYDROCHEMICAL INDEXES
Stroganova M.S.; Kushnerov A.I.; Shishkin A.I.
State University of Industrial Technologies and Design (Russia)
- 14:10 – 14:20** NUTRIENT ASSESSMENT IN LOW IMPACT DEVELOPMENT TECHNOLOGIES
Yano K.A.V.; Geronimo F.K.F.; Reyes N.J.D.G.; Kim L.H.
Kongju National University (South Korea)
- 14:20 – 14:30** FABRICATION AND CHARACTERIZATION OF BIPOLAR MEMBRANES FOR RECOVERY ACID AND BASES
Celik A.; Hasar H.
Firat University (TURKEY)

- 14:30 – 14:40** PERFORMANCE ASSESSMENT OF A CONSTRUCTED WETLAND TREATING AGRICULTURAL DRAINAGE WATER AFTER A DECADE OF OPERATION
Lavrić S.; Anconelli S.; Solimando D.; Toscano A.
University of Bologna (ITALY)
- 14:40 – 14:50** ARTIFICIAL GROUNDWATER RECHARGE - A PROMISING SOLUTION FOR URBAN AREAS
Islam M.T.; Al-Muyeed A.; Islam M.K.; Ali M.A.
KTH Royal Institute of Technology (SWEDEN)
- 14:50 – 15:10** **Short PPP of Posters : 35, 61, 6, 47, 27**
- 15:10 – 15:20** **Questions**

15:20 – 16:00 **Coffee-break and Posters Session**

16:00 – 17:00 **WATER MANAGEMENT - HYDROLOGY**

Chair: Vachová P. (Co-Chair IWA YWP of Czech Republic, VWS Memsep, CZECH REPUBLIC) and Filipic A. (National Institute of Biology, SLOVENIA)

- 16:00 – 16:10** GEO-STATISTICS FOR UNDERSTANDING GROUNDWATER CONDITIONS AND LATERAL MOVEMENT OF CONTAMINANTS
Mahmood K.; Batool R.
University of the Punjab (PAKISTAN)
- 16:10 – 16:20** THE MOBILITY OF HEAVY METALS IN THE WATER COLUMN WITH REFERENCE TO SEDIMENTS DEPOSITED IN SHORT URBAN STREAMS - POSSIBILITY OF WATER RE-CONTAMINATION AND HEALTH RISK
Nawrot N.; Wojciechowska E.; Walkusz-Miotk J.; Pazdro K.
Gdansk University of Technology (POLAND)
- 16:20 – 16:30** A HYDROLOGICAL MODEL FOR AYAMAMA WATERSHED IN ISTANBUL, TURKEY USING HEC-HMS
Yalçın İ.; Kazezyılmaz-Alhan C.M.; Javanshour K.; Aytekin M.; Gülbaz S.
Istanbul University (TURKEY)
- 16:30 – 16:40** **Short PPP of Posters : 26, 43, 44, 39, 4**
- 16:50 – 17:00** **Questions**

17:00 – 17:30 **DISCUSSION BETWEEN YOUNG AND SENIOR WATER PROFESSIONALS**

Chair: Ibrahimllari A. (IWA YWP Program, ALBANIA), Schilling K. (IAWD – Danube Water Program, AUSTRIA), Juhna T. (Riga Technical University, LATVIA), Hrcinić F. (Chair IWA YWP of Czech Republic, Severočeské vodovody a kanalizace, a.s., CZECH REPUBLIC)

19:00 – 23:00 **GALA DINNER ON THE BOAT**

Dear Participants, we invite you to the river cruise Gala dinner. We will have buffet dinner on a boat with drinks and live music during 3 hours (from 19:00 to 22:00)
More information about meeting point and etc. you will get at the first day of the conference.
Registration is required.



SESSION WASTEWATER

8:30 – 10:00 WASTEWATER - NITROGEN AND PHOSPHORUS REMOVAL

Chair: Danilycheva M. (Moscow State University of Civil Engineering, RUSSIA) and Bako (Budapest University of Technology and Economics, HUNGARY)

8:30 – 8:40 IMPACT OF HRT ON PHOSPHORUS REMOVAL FROM WASTEWATER USING REACTIVE MEDIA
Benzing S.; Couceiro F.; Barnett S.; Williams J.
University of Portsmouth (UNITED KINGDOM)

8:40 – 8:50 APPLICATION OF CORE-SHELL BIMAGNETIC NANOPARTICLES FOR REMOVAL OF PHOSPHORUS FROM AQUEOUS SOLUTION
Guerra A.A.A.M.; Damasceno F.L.; Barreto C.C.K.; Campos A.F.; Amorim A.K.B
University of Brasilia (BRAZIL)

8:50 – 9:00 BATCH STUDIES OF PHOSPHONATE ADSORPTION ON GRANULAR FERRIC HYDROXIDES
Reinhardt T.; GómezElordi M.; Minke R.; Schönberger H.; Rott E.
University of Stuttgart (GERMANY)

9:00 – 9:10 LIMITS OF INCREASED SIMULTANEOUS PHOSPHORUS PRECIPITATION IN WWTP BÍLINA
Harciník F.; Pečenka M.; Vrábel M.
Severočeské vodovody a kanalizace; a.s. (CZECH REPUBLIC)

9:10 – 9:20 MODELLING OF NOB WASH-OUT IN NITRIFICATION PROCESS AT LOW TEMPERATURE
Mehrani M.J.; Sobotka D.; Makinia J.
Gdansk University of Technology (POLAND)

9:20 – 9:30 NPHARVEST - INNOVATIVE NITROGEN AND PHOSPHORUS RECOVERY PROCESS
Mikola A.; Uzkurt Kaljunen J.; Sah R.; Pradhan S.; Vahala R.; Aurola A-M.
Aalto University (FINLAND)

9:30 – 9:50 **Short PPP for Posters : 16, 23, 13, 60, 42**

9:50 – 10:00 **Questions**

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

10:30 – 12:30 WASTEWATER - MEASUREMENT, MODELLING, NANOMATERIALS, GRANULAR SLUDGE

Chair: Lavrić S. (University of Bologna, ITALY) and Vachova P. (University of Chemistry and Technology, Prague, CZECH REPUBLIC)

10:30 – 10:40 EVALUATION OF SENTRY SENSOR FOR REAL-TIME BIOCHEMICAL OXYGEN DEMAND MEASUREMENT CAPABILITIES
Bolgár A. ; Boldizsár G.
Organica Technológiák Zrt. (HUNGARY)

10:40 – 10:50 BUBBLE GENERATION AT MICRO-ORIFICES UNDER VARIABLE GAS FLOW RATE WITH APPLICATION TO WASTEWATER TREATMENT
Mohseni E.; Reinecke S.F.; Hampel U.
Technische Universität Dresden (GERMANY)

10:50 – 11:00 AEROBIC GRANULAR SLUDGE PROCESS PERFORMANCE ANALYSIS UNDER INCREASING PHENOL LOADING RATES.
Szilveszter Sz.; Fikó D. R.; Máthé I.; Szilveszter Sz.; Ráduly B.
Sapientia Hungarian University of Transylvania (ROMANIA)

- 11:00 – 11:10** ASSESSMENT OF POLYPYRROLE NANOPARTICLES PREPARED IN PRESENCE AND ABSENCE OF SURFACTANT FOR HEAVY METALS DECONTAMINATION
Zayan S. E.; El-Shazly A. H.; El-Kady M. F.
Egypt-Japan University of Science and Technology (EGYPT)
- 11:10 – 11:20** IS THE BIO CARRIER EFFECT ON DEHP REMOVAL IN ANAEROBIC/AEROBIC SBR?
Yakameran E.; Aygun A.
Bursa Technical University (TURKEY)
- 11:20 – 11:30** ANTIBIOTIC RESISTANCE GENES IN DIFFERENT DNA FRACTIONS SAMPLED AT WASTEWATER TREATMENT PLANT
Miłobędzka A.; Vejmelkova D.; Bartacek J.
University of Chemistry and Technology Prague (CZECH REPUBLIC)
- 11:30 – 11:40** DEVELOPMENTS OF STRATEGIC POLYMER / CERAMIC COMPOSITES AND NANOCOMPOSITES FOR WASTE WATER REMEDIATION AND SUSTAINABLE UTILIZATION
Shivani Mishra
University of South Africa (SOUTH AFRICA)
- 11:40 – 12:10** **Short PPP of Posters : 56, 5, 30, 22, 55**
- 12:10 – 12:30** **Questions**
-
- 12:30 – 13:30** **Lunch**
-
- 13:30 – 15:30** **WASTEWATER - PARTIAL NITRIFICATION/DENITRIFICATION, DEAMMONIFICATION, HYDROPONIC LAGOONS**

Chair: Dejus S. (Riga Technical University, LATVIA) and Soukupová K. (Czech Technical University in Prague, CZECH REPUBLIC)
- 13:30 – 13:40** MOST LIKE IT HOT: IMPACT OF TEMPERATURE ON ANAMMOX PROCESS PERFORMANCE AND MEMBRANE LIPID COMPOSITION
Kouba V.; Hurkova K.; Navratilova K.; Benakova A.; Vejmelkova D.; Vodickova P.; Podzimek T.; Lipovova P.; Laurení M.; Hajslova J.; van Loosdrecht MCM; Weissbrodt D.; Bartacek J.
University of Chemistry and Technology Prague (CZECH REPUBLIC)
- 13:40 – 13:50** PRELIMINARY STUDIES ON COMAMMOX PROCESS UNDER DIFFERENT AERATION CONDITIONS DURING WASTEWATER TREATMENT
Sobotka D.; Godziewa M.; Kowal P.; Mehrani M.J.; Ciesielski S.; Makinia J.
Gdansk University of Technology (POLAND)
- 13:50 – 14:00** PROCESS PERFORMANCE OPTIMIZATION FOR MAINSTREAM MBBR PARTIAL NITRITATION-ANAMMOX SYSTEMS: THE USE OF MODEL PREDICTIVE DO CONTROL
Uzkurt Kaljunen N.; Alpaslan Kocamemi B.
Marmara University (TURKEY)
- 14:00 – 14:10** ACCELERATING BIOFILM FORMATION IN A SINGLE STAGE MAINSTREAM DEAMMONIFICATION MOVING BED BIOFILM REACTOR (MBBR): THE USE OF NZVI AND POLYMERS
Çelik S.; Yetgin S.; Erdim E.; Alpaslan Kocamemi B.
Marmara University (TURKEY)
- 14:10 – 14:20** THE DISTRIBUTION OF BACTERIAL COMMUNITIES IN PARTIAL NITRITATION FIXED BED REACTOR
Dawasa A.; Abu-Salih S.; Sabbah I.; Nejjdate A.; Dosoretza C.G.
Technion-Israel Institute of Technology (ISRAEL)
- 14:20 – 14:30** DEAMMONIFICATION RECOVERY STRATEGY : A PILOT SCALE STUDY
Sobotka D.; Al-Hazmi H.; Majtacz J.; Makinia J.
Gdansk University of Technology (POLAND)
- 14:30 – 14:40** CHANGES OF THE GRANULOMETRIC COMPOSITION OF PARTICLES IN WASTEWATER FLOWING THROUGH THE HYDROPONIC LAGOON IN III^o WASTEWATER TREATMENT PLANT
Bawiec A.; Pawęska K.
Wrocław University of Environmental and Life Sciences (POLAND)

14:40 – 14:50 WASTEWATER FLOW CONDITIONS IN A HYDROPONIC LAGOON IN TERMS OF QUALITY OF TREATED SEWAGE
Pawęska K.; Bawiec A.; Baran J.
Wrocław University of Environmental and Life Sciences (POLAND)

14:50 – 15:10 **Short PPP of Posters : 36, 21, 1, 18, 11**

15:10 – 15:30 **Questions**

15:30 – 16:00 **Coffee-break and Posters Session**

16:00 – 17:00 **WASTEWATER - USE OF ANAEROBIC PROCESSES**

Chair: Drewnowski J. (Gdansk University of Technology, POLAND) and Kelbich P. (Pražské vodovody a kanalizace, a.s., CZECH REPUBLIC)

16:00 – 16:10 EFFECT OF TRACE METAL ADDITION ON METHANE PRODUCTION AND RELATION OF THIS EFFECT TO DIFFUSIVE GRADIENTS IN THIN FILMS (DGT) METAL ACCUMULATION
Ilic A.; DuLaing G.; Bartacek J.
University of Chemistry and Technology Prague (CZECH REPUBLIC)

16:10 – 16:20 ANAEROBIC DIGESTION: MIXING EFFICIENCY IN SINGLE- AND TWO-STAGE SYSTEMS
Lanko I.; Jenicek P.
University of Chemistry and Technology (CZECH REPUBLIC)

16:20 – 16:30 TECHNO-ECONOMIC FEASIBILITY OF DIFFUSED AD IMPLEMENTATION IN SMALL BREWERIES IN FRIULI-VENEZIA GIULIA REGION AND EFFECT OF BIOCHAR AND GRANULAR ACTIVATED CARBON ON METHANE YIELD
Mainardis M.; Flaibani S.; Mazzolini F.; Goian D.; Peressotti A.
Udine University (ITALY)

16:30 – 16:40 PERFORMANCE COMPARISON OF THREE HIGH RATE ANAEROBIC BIOREACTORS (EGSB, DEGBR & SGBR) FOR THE TREATMENT OF POULTRY SLAUGHTERHOUSE WASTEWATER (PSW)
Basitere M. (SOUTH AFRICA)

16:40 – 16:50 **Short PPP of Posters : 62, 73, 70, 51**

16:50 – 17:00 **Questions**

SESSION WATER MANAGEMENT

- 8:30 – 10:00** **DRINKING WATER - AQUATIC CHEMISTRY, SPECIFIC POLLUTANTS, DISINFECTION**
- Chair: Harciník F. (Chair Czech IWA YWP, CZECH REPUBLIC) and Souillot F. (La Sorbonne, FRANCE)
- 8:30 – 8:40** DETERMINATION OF OPTIMUM OPERATIONAL CONDITIONS FOR THE REMOVAL OF 2-MIB FROM DRINKING WATER BY PEROXONE PROCESS: A PILOT SCALE STUDY
Fakioglu M.; Gulhan H.; Ozgun H.; Ersahin E.; Ozturk I.
Istanbul Technical University (TURKEY)
- 8:40 – 8:50** REMOVAL OF DIFFERENT VIRUSES IN WATER BY PLASMA
Filipić A.; Lukežič T.; Žnidarič M.T.; Primc G.; Mehle N.; Gutierrez-Aguirre I.; M.Ravnikar; Mozetič M.; Dobnik D.; Žel J.
National Institute of Biology (SLOVENIA)
- 8:50 – 9:00** CHEMICAL AND GREEN ZERO VALENT IRON NANOPARTICLES AS ARSENIC REMEDIATING AGENTS: A COMPARATIVE STUDY
Rana A.; Jagadevan S.
Indian Institute of Technology (INDIA)
- 9:00 – 9:10** POLLUTION OF URBAN GROUNDWATER BY EMERGING CONTAMINANTS
Yermakovych I.; Vystavna Y.; Lysenko M.; Kochetov G.
National University of Civil Defence of Ukraine (UKRAINE)
- 9:10 – 9:20** EFFECT OF CONVENTIONAL PRE-TREATMENTS ON NATURAL ORGANIC MATTER CHARACTERISTICS AND BIODEGRADABILITY IN HIGH DOC WATERS
Vojdani Z.; Gorczyca B.
University of Manitoba (CANADA)
- 9:20 – 9:30** MODELLING STUDY OF ARSENATE REMOVAL BY IRON (HYDR)OXIDE COATED PUMICE STONE
González-Rodríguez J.R.; Calleja-Amador C.; Valverde-Cerdas J.; Araya-Obando J.A.; Luis G. Romero-Esquivel
Instituto Tecnológico de Costa Rica (COSTA RICA)
- 9:30 – 9:40** NEAR PASSIVE SYSTEM FOR GENERATION OF WATER CONDENSATE FROM ATMOSPHERIC WATER
Kisser J.; Luketina I.; Ertl T.
Alchemia-Nova (AUSTRIA)
- 9:40 – 9:50** COMPARATIVE ANALYSIS OF HYDROCHEMICAL PROPERTIES OF THE BOTTLED WATERS IN SERBIA
Mandić M.; Štrbački J.
University of Belgrade (SERBIA)
- 9:50 – 10:00** **Questions**

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

- 10:30 – 12:30** **DRINKING WATER - TREATMENT TECHNOLOGY, DISTRIBUTION SYSTEM**
- Chair: Celebi A. (Sakarya University, TURKEY) and Ikizoglu Z. R. (Tübitak Marmara Research Center, TURKEY)
- 10:30 – 10:40** A PILOT SCALE EXPERIMENTAL STUDY ON THE ADEQUACY OF FILTRATION MODE OF OPERATION AND FILTER MEDIA IN THE BRASÃO-LIA WATER TREATMENT PLANT - FEDERAL DISTRICT - BRAZIL
Ferreira M.A.; Brandão C.C.S.; Simões C.P.P.; Braga F.M.G.
University of Brasília (BRAZIL)
- 10:40 – 10:50** COMPARISON OF DIFFERENT ADSORPTION MATERIALS FOR PENTAVALENT ARSENIC REMOVAL FROM DRINKING WATER
Zakhar R.; Derco J.; Čácho F.; Zembjaková I.; Villaverde I.C.
Slovak University of Technology (SLOVAKIA)
- 10:50 – 11:00** INVESTIGATION OF THE EFFECT OF PRE-OZONATION ON ORGANIC MATTER REMOVAL VIA FLOCCULATION
Sam S.; Yukselen M.A.; Can Z.S.
Marmara University (TURKEY)
- 11:00 – 11:10** REMOVAL OF CYLINDROSPERMOPHYSIN BY ADSORPTION ONTO ACTIVATED CARBON SYNTHESIZED FROM COCONUT SHELL
R. Fonseca; D. V. Cárdenas; M. J. Prauchner; Y. P. Ginoris
University of Brasília (BRASIL)

- 11:00 – 11:10** EFFECT OF AGITATION STRENGTH AND TIME ON NON-AQUEOUS SOLVENT DESALIATION
Seo J.; Choi O.; Lee J.; Yoon J.
Korea University (SOUTH KOREA)
- 11:10 – 11:20** FIRE AND DRINKING WATER CAPACITY ENHANCEMENT IN WATER DISTRIBUTION NETWORKS
Huzsvár T.; Wéber R.; Hős C.
Budapest University of Technology and Economics (Hungary) Winner National YWP Conference Hungary
- 11:20 – 11:30** HYDRAULIC MODEL CALIBRATION AND PERFORMANCE ASSESSMENT OF PRESSURE MANAGED AREAS WITH MULTIPLE INLETS
Bibok A.
Budapest Waterworks Co.Ltd. (HUNGARY)
- 11:30 – 11:40** INVESTIGATION OF CHLORINE WALL DEMAND IN DECOMMISSIONED CAST IRON PIPE USING PIPE SECTION REACTOR
Tonev R.
University of Architecture Civil Engineering and Geodesy (BULGARIA)
- 11:40 – 11:50** COMPARISON OF SENSOR PLACEMENT STRATEGIES ON WATER DISTRIBUTION SYSTEMS IN THE ASPECT OF ROUGHNESS CALIBRATION
Wéber R.; Hős Cs.
Budapest University of Technology and Economics (HUNGARY)
- 11:50 – 12:00** A REVIEW OF ENERGY ASSESSMENT METHODOLOGY FOR WATER DISTRIBUTION SYSTEM
Bylka J.; Mróz T.M.
Poznan University of Technology (POLAND)
- 12:00 – 12:10** THE INFLUENCE OF FINE SEDIMENTS ON THE QUALITY OF DRINKING WATER IN THE END SECTIONS OF THE WATER SUPPLY NETWORK
Rajnochova M.; Suchacek T.; Rucka J.; Dufkova K.
Brno University of Technology (CZECH REPUBLIC)
- 12:10 – 12:20** ENERGY CONSUMPTION REDUCTION AND UTILIZATION OF RENEWABLE ENERGY IN PUMP STATIONS
Gönczi G.; Kreka R.
Budapest Waterworks Co.Ltd (HUNGARY)
- 12:20 – 12:30** **Questions**
-
- 12:30 – 13:30** **Lunch**
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- 13:30 – 14:30** **OTHER TOPICS**
Chair: Danilycheva M. (Moscow State University of Civil Engineering, RUSSIA) and Odud L. (National University of Water and Environmental Engineering, UKRAINE)
- 13:30 – 13:40** NUMERICAL MODELLING OF HYDRAULIC TRANSIENTS CONSIDERING DYNAMICS EFFECTS IN A WATER PUMPING SYSTEM
Diniz A.B.N.; Fernandes J., Soares A.K.
University of Brasília (BRAZIL)
- 13:40 – 13:50** DARE-TU PROJECT: CO-CREATION OF AFFORDABLE AND CLEAN PUMPED IRRIGATION FOR SMALLHOLDERS
Intriago J.C.; Michavila J.; Arenas E.; Diehl J-C.; Ertsen M.W.
Delft University of Technology (NETHERLANDS)
- 13:50 – 14:00** ASSESSMENT OF THE RELIABILITY OF A HYDRAULIC MODEL OF THE TOPOLNITZA RIVER WITH A LIMITED NUMBER OF DATA
Kancheva V.G.; Gadjalska N.I.
Institute of Soil Science, Arotechnologies and Plant Protection (BULGARIA)
- 14:00 – 14:10** THE ECOLOGICAL RISK OF DETERIORATION IN THE WATER FLOW OF THE UDY RIVER BASIN
Korobkova H.; Yermakovych I.; Rybalova O.; Artemiev S.; Kochetov G.
Luhansk National Agrarian University (UKRAINE)
- 14:10 – 14:20** STIMULATING EFFECT OF MAGNESIUM HYDROXIDE ON AQUEOUS CHARACTERISTICS OF IRON NANOCOMPOSITES
Maamoun I.; Eljamal O.; Eljamal R.; Sugihara Y.
Kyushu University (JAPAN)
- 14:20 – 14:30** UV-ASSISTED DESALINATION OF SEAWATER USING TITANIUM DIOXIDE NANOTUBE DOPED POLYETHER BLOCK AMIDE MEMBRANE
Nigiz F.U.; Kibar M.E.
Kocaeli University (TURKEY)

- 14:30 – 14:40** **ROLE OF COAGULATION KINETICS IN WATER AND WASTE WATER TECHNOLOGY DESIGN**
Procházka J.
Čevak a.s.; (CZECH REPUBLIC)
- 14:40 – 14:50** **POTENTIAL SOIL QUALITY IMPROVEMENT FROM DIGESTED SLUDGE SUPERNATANT LIQUOR**
Z. Veres
Nyírségvíz Ltd. (HUNGARY)
- 14:50 – 15:00** **SUCCESS FACTORS FOR CITIZEN SCIENCE PROJECTS IN WATER QUALITY MONITORING**
SanLlorente A.; Kokimova A.; SinhaRayS.; Kirschke S.
Technische Universität Dresden (GERMANY)
- 15:00 – 15:10** **LINKAGES BETWEEN ENERGY MANAGEMENT AND MANAGEMENT ACCOUNTING: AN EMPIRICAL STUDY WITH SPECIAL FOCUS ON GERMAN WATER SUPPLYING COMPANIES**
Wencki K.
TU Dortmund University (GERMANY)
- 15:10 – 15:20** **COMPARISON OF RECOVERED LITHIUM FROM WASTE LITHIUM-ION BATTERY RECYCLING PROCESS IN THE PRESENCE OF ORGANIC POLLUTANTS**
Yoo K.; Lee J.; Yoon J.
Korea University (SOUTH KOREA)
- 15:20 – 15:30** **STIMULATING EFFECT OF MAGNESIUM HYDROXIDE ON AQUEOUS CHARACTERISTICS OF IRON NANOCOMPOSITES**
Maamoun I.; Eljamal O.; Eljamal R.; Sugihara Y.
Kyushu University (JAPAN)
- 15:30 – 15:40** **ISOPROPANOL REMOVAL FROM PHARMACEUTICAL PROCESS WASTEWATER WITH COMBINATION OF DISTILLATION AND PERVAPORATION**
Tóth A.
Budapest University of Technology and Economics (HUNGARY)
- 15:40 – 15:50** **Short PPP of Posters : 45, 46, 37, 65, 66**
- 15:50 – 16:00** **Questions**
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- 16:00 – 16:30** **Coffee-break and Posters Session**

16:30 – 17:00 **AWARD FOR THE BEST PLATFORM AND POSTER PRESENTATIONS & CLOSING CEREMONY**

Chair: Wanner J. (University of Chemistry and Technology, CZECH REPUBLIC), Feierabend M. (IWA YWP, GERMANY)

The winners will have free registration and a platform presentation at the 12th Eastern European IWA YWP Conference.

19:00 – 23:00 **INFORMAL DINNER AT THE BREWERY**

Dear participants, we invite you to an informal dinner at The Strahov Monastic Brewery. We will have traditional Czech dinner (includes vegetarian dishes) with drinks and brewery tour.

The Strahov Monastic Brewery is located close to the Prague Castle in the building of the Strahov Monastery, which was founded by King Vladislav II in 1142. The first documentation on the brewery dates back the turn of the 13th and 14th centuries. The decision on the construction of a new and fully functional brewery, where the restaurant is today, was made by Abbot Kaspar Questenberg in 1628. The brewery was closed in 1907, and the buildings were used solely as farmhouses. The brewery was restored only three years ago, in 2000, during an extensive and difficult reconstruction of the entire complex.

More information about meeting point and etc. you will get at the first day of the conference.

Registration is required.



SATURDAY - 5 OCTOBER 2019

9:00 – 12:00 TECHNICAL TOUR TO DRINKING WATER PLANT PODOLÍ

Drinking water treatment plant Podolí was built in 1929 by architect Antonín Engel and it was an important source of drinking water for the residents of Prague. Source of the water for water treatment plant is the Vltava river. First step of separation is the processes of coagulation and sedimentation. Follows addition of lime water for pH stabilization. The second step of separation is open sand filtration. The last step is chlorination as a hygienic preservation and protection. Then the treated water is distributed as a drinking water to the Prague distribution system. Nowadays, after a massive flood in August 2002, Podolí is used as an emergency source of drinking water for Prague in case of major accidents, maintenance of active Water treatments plants for Prague (planned outage) or other emergency situations. Standby program is based on a perfect maintenance of all technological steps so that it is ready and prepared to run immediately in a case of emergency.

Free of charge, need to register. The number of participants is limited.
More information about meeting point and etc. you will get at the first day of the conference.



SATURDAY - 5 OCTOBER 2019

13:00 – 16:00 CITY TOUR

Dear Participants, we invite you to the City Orientation Walking Tour. We will see 3 most important sights of Prague: PRAGUE CASTLE - Records indicate that Prague Castle is the largest castle area in the world. Its four courtyards and a number of magnificent buildings cover over 7 hectares (18 acres), so be prepared to see a lot and do some walking.

CHARLES BRIDGE - Its construction started in 1357 under the auspices of King Charles IV, and finished in the beginning of the 15th century. The bridge is 516 meters long and nearly 10 meters wide, resting on 16 arches shielded by ice guards. It is protected by three bridge towers, two of them on the Lesser Quarter side and the third one on the Old Town side. The Old Town bridge tower is often considered to be one of the most astonishing civil gothic- style buildings in the world. The bridge is decorated by a continuous alley of 30 statues and statuaries, most of them baroque-style, erected around 1700.

OLD TOWN SQUARE - Step into the Old Town Square in Prague and journey back in time, 600 or 700 years. As you stand in awe, the dramatic history of Prague permeates the air. The Old Town Square is one of two main squares in the city centre. With its ancient buildings and magnificent churches, this is one of the most beautiful historical sites in Europe.

More information about meeting point and etc. you will get at the first day of the conference.
Registration is required



1.
ADVANCED NITROGEN REMOVAL FOR DOMESTIC WASTEWATER TREATMENT VIA ANAMMOX PATHWAY IN A COMBINED BIOFILM PROCESS
Bin Cui; Xiuhong Liu; Qing Yang; Wenjun Wu
Beijing University of Technology (CHINA)
2.
AGRICULTURAL NUTRIENT INPUTS TO THE BAY OF PUCK FROM SMALL-SIZE WATERSHEDS IN RELATION TO AGRICULTURAL PRACTICES
E. Wojciechowska; S. Pietrzak; N. Nawrot; K. Matej-Łukowicz; H. Obarska-Pempkowiak; L. Dzierzbicka-Głowacka
Gdańsk University of Technology (POLAND)
3.
ANALYSIS OF POLLUTION DEGREE ACCORDING TO SOIL DEPTH OF CULTIVATED LAND
L. Yookyung; C. Hyeseon; J. Minsu; G. F. Kevin; K. Leehyung
Kongju National University (KOREA)
4.
ANTIBIOTIC RESISTANT BACTERIA IN STORMWATER
A. Miłobędzka; M. Białasek
University of Chemistry and Technology Prague (CZECH REPUBLIC)
5.
ASSESSMENT AND CONSERVATION APPROACHES OF DEGRADATION HOTSPOTS IN THREE LEADING INDIAN RIVERS
A. Bamal; N.Singh
TERI (THE ENERGY AND RESOURCES INSTITUTE) school of advanced studies (INDIA)
6.
AUTOMATED ELECTROCHEMICAL SYSTEMS FOR WATER DISINFECTION: A REVIEW
V. Denisova; L. Mezule
Riga Technical University (LATVIA)
7.
BEACH WRACK MANAGEMENT AS EXAMPLE OF CIRCULAR ECONOMY
A. Kupczyk; K. KołECKA; M. Gajewska
Gdansk University of Technology (POLAND)
8.
BIOREMEDIATION OF ARSENIC CONTAMINATED GROUNDWATER THROUGH BIOACCUMULATION OF AS(V)
N. Kumari, S. Jagadevan
Indian Institute of Technology (INDIA)
9.
CALCULATION OF THE WAVE LENGTH OF UNDULAR JUMP
O. Halych
National University of Water and Environmental Engineering (UKRAINE)
10.
CHARACTERIZATION OF LEACHATE FROM NON-SANITARY MUNICIPAL SOLID WASTE LANDFILL IN NOVI SAD
K. Antic; M. Petrovic; D. Adamovic; M. Turk Sekulic; D. Sakulski; J. Radonic
University of Novi Sad (SERBIA)
11.
CHLORINE PRESENCE INFLUENCE ON TRANSFORMATION OF CECS DURING UV-BASED PROCESSES
E. Kudlek
Silesian University Technology (POLAND)
12.
CLEAN KARST WATER SUPPLY UNDER A BIG CITY: THE MOLNÁR JÁNOS CAVE
P. Szombathy
Budapest University of Technology and Economics (HUNGARY)
13.
CLEAN WATER PRODUCTION FROM HIGH SALINITY WATER USING PERVAPORATION MEMBRANES
Selim A., Toth A.J., Haaz E., Fozer D., Mizsey P.
Budapest University of Technology and Economics (HUNGARY)
14.
CONCENTRATIONS OF EMERGING ORGANIC CONTAMINANTS IN SWIMMING POOLS
A. Lempart, E. Kudlek, M. Dudziak
Silesian University Technology (POLAND)
15.
CONSERVATION AND REVIVAL OF WATER BODIES: A DELHI PERSPECTIVE
Prathna T.C.; A. Srivastava
Govt. of NCT of Delhi (INDIA)

16.
CONTROLLED SYNTHESIS OF HIGHLY EFFICIENT TiO₂/GAC COMPOSITES FOR CATALYTIC OZONATION OF WASTEWATERS.
C. Ferreiro; J. I. Lombraña; M. J. Rivero
University of the Basque Country UPV/EHU (SPAIN)
17.
COUPLING ENZYME TECHNOLOGY TO IMPROVED WASTEWATER TREATMENT PROCESSES.
S. Delgado; C. A. Aragón Cruz; Á. Jiménez; I. García, K. Draissi; P. Caballero-Jiménez; J. Parrado-Rubio
CENTA (SPAIN)
18.
CULTIVATION OF THE NANNOCHLOROPSIS OCULATA DURING TREATMENT OF THE REJECT WATER FROM THE ANAMMOX PROCESS
L. Aditya; M. Godzieba; P.Kowal; J. Małkinia
Gdańsk University of Technology (POLAND)
19.
DETECTION OF LEGIONELLA SPP. AND E. COLI PATHOGENS IN THE WATER SUPPLY SYSTEM IN WROCLAW
M. Wolf-Baca; A. Siedlecka
Wroclaw University of Science and Technology (POLAND)
20.
DETECTION OF POLYCYCLIC AROMATIC HYDROCARBONS AT BLACK SEA REGION WITH USING SEMIPERMEABLE MEMBRANE DEVICES (SPMDS)
Z. R. İkizoğlu; G. Avaz; O. Canlı; E. Öktem Olgun; M. Özkan; Ü. Yetiş
Tübitak Marmara Research Center (TURKEY)
21.
EFFECT OF C / N RATIO ON N₂O PRODUCTION IN THE DEAMMONIFICATION PROCESS
H. Al-Hazmi
Gdańsk University of Technology (POLAND)
22.
EFFECT OF MORPHOLOGICAL PROPERTIES OF MODIFIED BIOGENIC SORBENTS: A DIVERSIFICATION OF PHOSPHATES REMOVAL TECHNOLOGIES
E. Strade; D. Kalnina
Riga Technical University (LATVIA)
23.
EFFICIENT AERATION FOR BIOLOGICAL WASTEWATER TREATMENT
R. Herrmann-Heber
Helmholtz-Zentrum Dresden-Rossendorf e.V. (GERMANY)
24.
ENVIRONMENTAL RISK ASSESSMENT OF MUNICIPAL SOLID WASTE LANDFILL IN THE VICINITY OF NOVI SAD - A PROJECT REVIEW
M. Petrović, M. Sremački, I. Mihajlović, M. Novaković, D. Milovanovic, V.Bežanović and N. Maoduš
University of Novi Sad (SERBIA)
25.
ENVIRONMENTAL RISK ASSESSMENT OF PHACS IN THE LARGEST SHALLOW LAKE IN CENTRAL EUROPE
É. Molnár; J. Hahn; I. Fodor; Z. Zrinyi; S. Szoboszlai; Z. Pirger; G. Maász;
Hungarian Academy of Science Centre for Ecological Research (HUNGARY)
26.
ENVIRONMENTAL RISK ASSESSMENT OF TOXIC AND EMERGING POLLUTANTS IN WASTE AND SURFACE WATER OF NOVI SAD
M. Sremački, M. Petrović, B. Obrovski, I. Mihajlović, J. Radonić and M. Vojinović Miloradov
University of Novi Sad (SERBIA)
27.
ENVIRONMENTAL SUSTAINABILITY EVALUATION UNDER THE IMPACT OF URBANIZATION ON THE BASIS OF WATER-ENERGY-FOOD NEXUS
C. Fan; C.Y. Lin
National Taiwan University (TAIWAN)
28.
EUTROPHICATION OF BATHING WATERS IN PRAGUE: THE MODELING OF CAUSES AND PROPOSALS OF REMEDIAL MEASURES
J. Gregar; M. Martínková; J. Petrů
Czech University of Life Sciences Prague (CZECH REPUBLIC)

29.
EVALUATION OF THE IMPACT OF RESIDENTIAL URBAN PATTERNS ON WATER ECOSYSTEM SERVICES IN FEDERAL DISTRICT, BRAZIL
B. F. Costa; L. K. S. Brito; M. E. L. Costa; S. Koide; H. L. Roig
University of Brasília (BRASIL)
30.
EVALUATION OF THE MIGRATION OF PAINTS USED IN FLEXOGRAPHIC PRINTING TO THE AQUEOUS ENVIRONMENT FROM SELECTED PLASTICS
E. Laskawiec
Silesian University of Technology (POLAND)
31.
EVALUATION OF WORKING CHARACTERISTICS AND CALIBRATION STRATEGIES OF THE ION SELECTIVE ELECTRODE MEASUREMENTS FOR WASTEWATER TREATMENT PLANT PROCESS CONTROL AND MONITORING
M. Petruřík; J. Čáslavský
Brno University of Technology (CZECH REPUBLIC)
32.
EXPERIMENTAL DETERMINATION OF EFFICIENCY ADSORBENT BAYOXIDE E33 OF REMOVAL MICROPOLLUTANTS FROM WATER
Šíblová D.
Brno University of Technology (CZECH REPUBLIC)
33.
EXPLORING THE DISTRIBUTION OF PESTICIDES AND THEIR ECOLOGICAL RISK FOR PRIONAILURUS BENGALENSIS
C. Fan; J. Liao
National Taiwan University (TAIWAN)
34.
FOSTERING SUSTAINABLE DEVELOPMENT BY EMPOWERING INDIGENOUS ABILITIES: THE BORDER ZONE CASE OF RURAL SOUTH LEBANON
G. Gharios
University of Dundee (United KINGDOM)
35.
FOULING BEHAVIOUR OF ULTRAFILTRATION MEMBRANES MODIFIED BY NANOPARTICLES DURING ULTRAFILTRATION OF WWTP EFFLUENT SPIKED WITH MICROPOLLUTANTS
G. Kamińska
Silesian University of Technology (POLAND)
36.
FOULING INDEX CHANGE CHARACTERISTICS DURING THE CONDENSATION PROCESS OF ALGAL SCUM IN THE SIC BASED CERAMIC MEMBRANE
C. Park; K. T. Park
Construction Technology Research Center (KOREA)
37.
HETEROGENOUS PHOTOCATALYSIS WITH NANO-ZINC OXIDE AS A POSSIBLE SOLUTION FOR REMOVAL OF BISPHENOL A FROM LANDFILL LEACHATE
M. Novaković, M. Petrović, U. Simeunović, I. Mihajlović, M. Sremacki, V. Bežanović and D. Štrbac
University of Novi Sad (SERBIA)
38.
HUMAN ADENOVIRUS AS A POSSIBLE INDICATOR OF VIRAL CONTAMINATION OF DRINKING WATER
T. V. Amvrosieva, N. V. Paklonskaya, I. V. Belskaya, J. A. Shilova, S. K. Laziuk, J. A. Shilova
The Republican Research and Practical Center for Epidemiology and Microbiology (BELARUS)
39.
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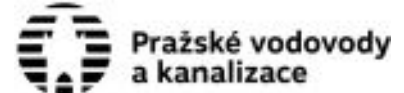
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