IWA DIPCON 2026

PRORAMME

23rd International Conference on Diffuse Pollution & Eutrophication

November 24 – 27, 2026
TU Wien, Vienna, Austria

Tuesday, November 24

12:00pm - 4:30pm	**YWP Workshop** Location: **Meeting room ADEG**
3:00pm - 4:30pm	**IWA DIPCON Management Committee meeting** Location: **Library-Meeting room AA0258**
4:30pm – 5:00pm	**Arrival & Registration** Location: **TUtheSky**
5:00pm - 10:00pm	**Welcome reception** Location: **TUtheSky**

SCAN ME



8:15am - 9:00am **Registration**
Location: **Prechtlsaal**

9:00am - 9:15am **Welcome & Opening Remarks**
Location: **Prechtlsaal**
Chair: **Ottavia Zoboli**

9:15am - 10:45am **Keynote presentations**
Location: **Prechtlsaal**
Chair: **Ottavia Zoboli**

9:15am - 10:00am

Key Water Ecology Issues and Management Progress in the Yangtze River Basin

Lijing Wang
Chinese Research Academy of Environmental Sciences, China

10:00am - 10:45am

Monitoring, modelling and management of nutrients and trace contaminants in the Danube River Basin – past, present and future challenges

Matthias Zessner
TU Wien, Austria

10:45am - 11:15am **Coffee break**
Location: **Prechtlsaal**

11:15am - 12:30pm

Innovative Technologies and Materials for Water Treatment and Resource Management (Orals)
Location: **Boecklsaal**
Chair: **Ferdi Hellweger**

11:15am - 11:30am

Geo-electrical sensing of biochar colloids for in-situ groundwater remediation in sand flow-through columns

Ahmad Ameen, Brenda Miseh Agidi, Adrian Mellage
Hydrogeology, Civil and Environmental Engineering, University of Kassel, Kassel 34125, Germany.

11:30am - 11:45am

Inhibition of Biofilm Growth on Films with 20 µm Riblet Height Across Bacterial, Fungal, and Algal Microorganisms

Shahd Wehbe[1], Patrick Arthofer[1], Dieter Nees[2], Christoph Feichtinger[3], Claudia Hledik[1]
1: University of Natural Resources and Life Sciences (BOKU), Vienna | Austria; 2: Joanneum Research Forschungsgesellschaft mbH, Graz | Austria; 3: Bionic Surface Technologies (BST), Graz | Austria

Harmonised Data and Predictive Tools for Diffuse Pollution and Eutrophication Assessment (Orals)
Location: **Prechtlsaal**
Chair: **Fumiyuki Nakajima**

11:15am - 11:30am

Konda – An Open Framework for Harmonized Multi-Compartment Concentration Data

Severin Osten, Steffen Kittlaus, Ottavia Zoboli
TU Wien, Austria

11:30am - 11:45am

Evaluating interpretable statistical models for predicting nutrients in surface waters in a scarce tropical data context

Luis Quesada[1,2], Christian Birkel[2,3], Tayler Clarke[2,5], Helga Madrigal[1], Alicia Fonseca[1], Ingo Wehrtmann[4,5]
1: National University of Costa Rica, Costa Rica; 2: Universidad de Costa Rica; 3: Leibniz Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany; 4: Centro de Investigación en Ciencias del Mar y Limnología (CIMAR), Universidad de Costa Rica, San José, Costa Rica; 5: Editorial Universitaria, Universidad del Valle de Guatemala, Ciudad de Guatemala, Guatemala

11:45am - 12:00pm

Decentralized microalgae–DHS treatment for nutrient discharge control and wastewater reuse in a coastal arid region

Sota Kabasawa[1], Takahiro Watari[2], Maria Kaltsidi[3], Nayareth Gonzalez[3], Juan Manuel[3], Henry Cameron[3], Jazmín Bazaes[3], Claudia Sepúlveda[3], Masashi Hatamoto[2], Carlos Riquelme[3], Takashi Yamaguchi[1,2]
1: Department of Science of Technology Innovation, Nagaoka University of Technology, Japan;
2: Department of Civil and Environmental Engineering, Nagaoka University of Technology, Japan; 3: Centro de Bioinnovación Antofagasta (CBIA), University of Antofagasta, Chile

12:00pm - 12:15pm

AC/SC – Back in black: Removal of Critical Emerging Contaminants from Water using Spent Coffee Activated Carbon

Inga Block, Andreas Taubert
University Potsdam, Germany

12:15pm - 12:30pm

Detection of Microplastics in Barley (Hordeum vulgare L.) and Biochar-Mediated Mitigation in Agricultural Soils

Nishita Narwal
University of Western Australia, Australia

11:45am - 12:00pm

Assessing Public Health Exposure to PFAS by Probabilistic Modelling: a Case Study in the Upper Danube Catchment

Thomas James Oudega[1,3], Meiqi Liu[1], Ali Obeid[2,3], Julia Derx[2,3], Claudia Gundacker[4], Jörg Krampe[1], Ottavia Zoboli[1], Matthias Zessner[1,3]
1: Institute for Water Quality and Resource Management, TU Wien, Austria; 2: Institute of Hydraulic Engineering and Water Resources Management, TU Wien, Austria; 3: Interuniversity Cooperation Centre for Water and Health (ICC Water & Health), www.waterandhealth.at; 4: Institute of Medical Genetics, Medical University of Vienna, Austria

12:00pm - 12:15pm

Predicting Micropollutant Concentrations in River Networks Using a Dual-Directed Graph Convolutional Network: A Framework for Monitoring Network Optimization

Diane Pamela Palmero, Seoyeon Jang, Joo Hyon Kang
Dongguk University, Republic of Korea

12:15pm - 12:30pm

Integrated Assessment of Water Quality and Trophic Status of an Artificial Campus Lake Using WQI and Carlson's Trophic State Index

Rafidah Hamdan[1], Muhammad Hafiq Afifi Azman[1], Azzahra Dalvi[2], Siti Nor Hidayah Ariffin[3]
1: Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia; 2: Universitas Andalas, Padang, Indonesia; 3: Universiti Teknologi Malaysia (UTM), Malaysia

12:30pm - 1:30pm **Lunch break**
Location: **Prechtlsaal**

1:30pm - 3:00pm **Advancing Lake Eutrophication Management: Monitoring, Modeling, and Forecasting (Orals)**
Location: **Boecklsaal**
Chair: **Yonghui Song**

1:30pm - 1:45pm

Spatial and Seasonal Variability of Water Quality, Nutrients, and Cyanobacteria in Egirdir Lake: Implications for Eutrophication and Drinking Water Quality

Meltem Kacikoc[1], Eda Boyacioglu[1], Filiz Dadaser-Celik[2]
1: Suleyman Demirel University, Turkey; 2: Erciyes University, Turkey

1:45pm - 2:00pm

Mechanistic modelling of cyanobacteria ecology and cyanotoxin production in Lake Mendota

Pablo Barrancos-Garrigós, Ferdi Hellweger
TU Berlin, Germany

Advancing Nature-Based Solutions for Diffuse Pollution: From Global Evidence to Site-Specific Applications (Orals)
Location: **Prechtlsaal**
Chair: **Marla Maniquiz-Redillas**

1:30pm - 1:45pm

Modelling PFAS fate and transport and risk assessment at riverbank filtration sites: case study in the Upper Danube Basin

Ali A. A. Obeid[1,6], Thomas J. Oudega[2,6], Gijs Janssen[3], Peter Vermeulen[3], Devanshi Pathak[3], Margaret E. Stevenson[1,6], Zsuzsanna Nagy-Kovács[4], Balázs László[4], Regina Sommer[5,6], Gerhard Lindner[1,5,6], Ottavia Zoboli[2], Matthias Zessner[2,6], Julia Derx[1,6]
1: Institute of Hydraulic Engineering and Water Resources Management, TU Wien, Vienna, Austria; 2: Institute for Water Quality and Resource Management, TU Wien, Vienna, Austria; 3: Deltares. Boussinesqweg 1, Delft, the Netherlands; 4: Budapest Waterworks Ltd, Váci út 23–27, 1134, Budapast,

2:00pm - 2:15pm

Improving Chlorophyll-a Forecasting in the eutrophic lake by using ensemble data assimilation

Xiaoyu Liu[1,2], Lijing Wang[1], Yong Liu[2]

1: Chinese Research Academy of Environmental Sciences, Beijing, China; 2: Peking university, Beijing, China

2:15pm - 2:30pm

Spatial and temporal Sentinel-2 analysis to determine spatial trophic state hotpots and temporal peaks – application for Brates Lake, Romania

Malte Zamzow[1], Andreas Matzinger[1], Stefan Petrea[2]

1: Kompetenzzentrum Wasser Berlin, Germany; 2: Dunarea de Jos University

2:30pm - 2:45pm

Eutrophic Reservoir Management and Future Water Quality Projections: The Case of Liyutan Reservoir, Taiwan

Chi-Feng Chen[1], Jen-Yang Lin[1], Shyh-Fang Kang[2]

1: National Taipei University of Technology, Taiwan; 2: Tamkang University, Taiwan

2:45pm - 3:00pm

An integrated monitoring and management approach for eutrophicated aquatic ecosystems: a case study of Lake Altmühl

Peter Flödl, Hemma Smolka, Finn Schöler, Christoph Hauer

Universität für Bodenkultur Wien, Austria

Hungary; 5: Medical University Vienna, Institute for Hygiene and Applied Immunology, Water Hygiene, Austria; 6: Interuniversity Cooperation Centre for Water and Health (ICC Water & Health), Vienna, Austria

1:45pm - 2:00pm

Internal Dynamics of Organic Contaminants in Bioretention Systems: Insights from Temporarily Retained Water

Angélica Goya-Heredia, Alfredo Jácome, Jose Anta, Xavier Del Puerto, Joaquín Suárez

University of A Coruña, Spain

2:00pm - 2:15pm

Development and Design of a Sediment–Drainage–Infiltration Hybrid System for Runoff Reduction and Sediment Control in Erosion-Prone Catchments

Karen Bañas[1,2], Micaela Maurel Guyamin[1], Julius Richel Manlutac[1], Marla Maniquiz-Redillas[1]

1: De La Salle University, Philippines; 2: Catanduanes State University, Philippines

2:15pm - 2:30pm

Performance Evaluation of a Nature-Based Bio-Undercatcher System Under Extreme Climate Condition

Joseph Raniel Bianes[1,2], Julius Richel Manlutac[1], Natasha Sabine de los Santos[1], Jayrah Padilla-Rufon[1], Marla Maniquiz-Redillas[1]

1: Department of Civil Engineering, EcoHydrology & Nature-Based Solutions (EcoHydro-NBS, Center for Engineering and Sustainable Development Research (CESDR), De La Salle University, 2401 Taft Ave, Malate, Manila, 1004, Philippines; 2: Engineering Sciences Department, College of Engineering, Polytechnic University of the Philippines, Anonast St., Sta. Mesa, Manila, 1016, Philippines

2:30pm - 2:45pm

Evidence of the performance of different NBS (and best management practices) on reducing diffuse pollution from agricultural production: worldwide systematic mapping & Norwegian perspective.

Dominika Krzeminska[1], Anne-Grete Buseth Blankenberg[1], Jian Liu[1], Remegio Confesor[2,1]

1: Norwegian Institute of Bioeconomy Research (NIBIO), Norway; 2: National Center for Water Quality Research, Heidelberg University,Ohio

3:00pm-3:30pm **Coffee break**
Location: **Prechtlsaal**

3:30pm - 4:00pm **Pitch presentations (Poster session 1)**
Location: **Prechtlsaal**
Chair: **Ottavia Zoboli**

4:00pm - 5:15pm

Poster session 1

Location: **Prechtlsaal**
Chair: **Ottavia Zoboli**

Integrating Sediment Quality and Area of Influence Dynamics into Bathing Water Safety Plans: Evidence from the PNC ACeS Project

Roberta De Angelis, Andrea Tornambè, Arianna Orasi, Luisa Bergamin, Iolanda Lisi, Patrizia Borrello, Emanuela Spada, Elena Romano
ISPRA, Italy

An integrated approach to assessing diffuse sediment and phosphorus inputs into surface water using modelling, remote sensing and water quality monitoring

Vincent Idel[1], Nikolaus Weber[1], Melanie Maxwald[2], Elisabeth Lauss[3], Laura Prischl[4], Gerold Hepp[5], Christine Weinberger[2], Matthias Zessner[1]
1: Institute for Water Quality and Resource Management, TU Wien; 2: wpa Beratende Ingenieure; 3: blattfisch e.U.; 4: European Environment Agency; 5: Federal Ministry of Housing, Arts, Culture, Media and Sport

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Multi-Criteria Selection of Priority Trace Contaminants for Long-Term Transnational Emission Inventories in the Danube River Basin

Elsa Lavinia Eder, Matthias Zessner, Ottavia Zoboli
TU Wien, Austria

Influence of diffuse pollution sources in the Dyje River basin and its potential changes under climate change

Miloš Rozkošný, Kateřina Sovová, Hana Zvěřinová Mlejnková
TGM Water Research Institute, p.r.i., Czech Republic

Runoff Management in Urban and Peri-Urban Land Use under Climate Extremes using Green-Grey Ratio Approach

Rizelle Angela Koch, Marla Maniquiz-Redillas
1Department of Civil Engineering, EcoHydrology & Nature-Based Solutions (EcoHydro-NBS), Center for Engineering and Sustainable Development Research (CESDR), De La Salle University, 2401 Taft Ave, Malate, Manila, 1004, Philippines

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Multi-Objective Evaluation of Nature-based Solutions in Data Scarce Regions Considering Localized Environmental Factors and Ecosystem Services

Sergi Garbanzos, Marla Maniquiz-Redillas
De La Salle University, Philippines

From WWTP to Diffuse Emissions: Emission Pathways Define Sampling Requirements for Accurate Annual Riverine Load Estimation

Nikolaus Weber, Matthias Zessner, Ottavia Zoboli
TU Wien, Austria

Potential of Native Riparian Plant Salix gracilistyla for Heavy Metal Phytoremediation in Contaminated Soils

Yohan Lee, Keumchul Yang
Kongju National University, Republic of Korea

Assessing Nitrogen Sources and Dynamics in Groundwater on an Uplifted Coral Island in Japan

Makoto Saiki[1], Hirotsugu Arai[1], Ken'ichi Osaka[1,2], Keisuke Koba[1,3], Kentaro Hayashi[1]

1: Research institute for Humanity and Nature, Japan; 2: Faculty of Environmental Science, University of Shiga Prefecture; 3: Center for Ecological Research, Kyoto University

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Optimization of Retention-Detention and Treatment Performance using Agro-Industrial Waste-Based Biofilters

Natasha Sabine de los Santos[1], Joseph Raniel Bianes[1,2], Jayrah Padilla-Rufon[1], Julius Richel Manlutac[1], Marla Maniquiz-Redillas[1]

1: Department of Civil Engineering, EcoHydrology & Nature-Based Solutions (EcoHydro-NBS), Center for Engineering and Sustainable Development Research (CESDR), De La Salle University Manila; 2: Engineering Sciences Department, College of Engineering, Polytechnic University of the Philippines, Anonast St., Sta. Mesa, Manila, 1016, Philippines

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Occurrence of Cyanuric Acid in Private Swimming Pools and Its Potential Release into the Environment

Claudia Hledik, Roman Neunteufel

BOKU University, Institute of Sanitary Engineering and Water Pollution Control

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Biodiversity decrease of culturable bacteria in the Mura River sediments: potential association with diffuse sources of environmental contamination

Matej Kristan Mirković, Snježana Kazazić, Tomislav Kralj, Damir Valić, Zoran Kiralj, Dušica Vujaklija, Zrinka Dragun

Institut Ruđer Bošković, Croatia

Integrated Optimization of Groundwater Pumping Using SWAT-MODFLOW for Sustainable Water Supply in a Coastal Watershed

Seoyeon Jang, Diane Pamela Palmero, Soyeon Jin, Sang Il Lee, Beomju Kim, Yunhee Kim, Jaeyoung Seo, Joo-Hyon Kang

Dongguk University, Korea, Republic of Korea

Degradation of steroid androgen in aqueous solution by gamma ray and thermal activation persulfate processes

Libing Chu

Tsinghua University, China

7:00pm - 11:00pm **Gala Dinner**
Location: **City Hall**



8:30am - 9:00am **Arrival / Registration**
Location: **Prechtlsaal**

9:00am - 10:30am

Advancing Integrated Stormwater Management: From Green Infrastructure to Ecosystem Health (Orals)

Location: **Boecklsaal**
Chair: **Cevza Melek Kazezyılmaz-Alhan**

9:00am - 9:15am

Diversity of Macroinvertebrates in Urban Rivers via environmental DNA

Suna Ekin Kali[1], Heléne Österlund[1], Maria Viklander[1], Ishi Buffam[2], Godecke Blecken[1]
1: Urban Water Engineering, Department of Civil, Environmental and Natural Resources Engineering, Luleå University of Technology, Luleå, Sweden; 2: Department of Landscape Architecture, Planning and Management, Swedish University of Agricultural Sciences, Alnarp, Sweden

9:15am - 9:30am

Upstream strategies and source control for reducing urban micropollutant loads transported with stormwater

Alexandra Müller, Haoyu Wei, Maria Viklander, Helene Österlund
Luleå University of Technology, Sweden

9:30am - 9:45am

Are stormwater LID technologiestruly effective for climate adaptation and mitigation?

Md Tashdedul Haque, Lee Hyung Kim
Kongju National University, Republic of Korea

9:45am - 10:00am

Evaluating Blue-Green Networks for Urban OECM Planning: Indicator Development and Campus-Scale Performance Assessment

Cloie Chie Mueca, Miguel Enrico Robles, Lee Hyung Kim
Department of Civil and Environmental Engineering, Kongju National University, Cheonan, Chungnam-do, Republic of Korea

10:00am - 10:15am

Linking Climate-Driven Diffuse Pollution Responses and Hydrothermal Resilience Using Explainable AI for Adaptive Green Stormwater Infrastructure Design

Miguel Enrico Robles, Yugyeong Oh, Lee-Hyung Kim
Kongju National University, Republic of Korea

Watershed-Scale Modeling for Diffuse Pollution Source Apportionment and Management (Orals)

Location: **Prechtlsaal**
Chair: **Xiaoyan Wang**

9:00am - 9:15am

Modeling Diffuse Sediment Emissions under Climate Change in a Semi-Arid Reservoir Basin

Enosh Monga[1], Filiz Dadaser-Celik[2]
1: South-Eastern Finland University of Applied Sciences; 2: Erciyes University, Turkey

9:15am - 9:30am

Source apportionment and delivery processes of nitrogen and phosphorus in a Semi-arid and semi-humid watershed using a coupled SWAT–SPARROW framework: A case study of the chaohe river basin, China

Liming Yan, Xiaoyan Wang, Liangxu Hu, Ziyi Tian
Capital Normal University, China

9:30am - 9:45am

Emissions from source to sea: modelling of multiple substances for policy-oriented river basin management

Sibren Loos, Jos van Gils, Gerard Pijcke, Hélène Boisgontier, Bregje Brinkmann, Albrecht Weerts
Stichting Deltares, The Netherlands

9:45am - 10:00am

Impacts of Climate Change and Management Scenarios on Emissions, Loads, and Concentrations of Nitrogen and Phosphorus in the Oder River

Markus Venohr, Anna Oprei
IGB-Berlin, Germany

10:00am - 10:15am

Modelling PFAS Emission Pathways in the Danube River Basin

Zsolt Jolánkai, Máté K. Kardos, Vivien Poto, Timea Lajko, Adrienne Clement
Budapest University of Technology and Economics, Hungary

10:15am - 10:30am

The RainS-TECH Project: An Integrated Nature-Based Green Stormwater Infrastructure Framework for Diffuse Pollution Management across Pre- to Post-Developed Catchments

Marla Maniquiz-Redillas
Department of Civil Engineering, EcoHydrology & Nature-Based Solutions (EcoHydro-NBS), Center for Engineering and Sustainable Development Research (CESDR), De La Salle University, 2401 Taft Ave, Malate, Manila, 1004, Philippines

10:15am - 10:30am

Can we meet the new EU PFAS standards? Scenario modelling of PFAS emissions in the Upper Danube Basin

Meiqi Liu[1], Steffen Kittlaus[1,2], Ottavia Zoboli[1], Matthias Zessner[1]
1: Institute for Water Quality and Resource Management, TU Wien, Vienna, Austria;
2: Environmental Agency Austria, Vienna, Austria

10:30am - 11:00am **Coffee break**
Location: **Prechtlsaal**

11:00am - 11:25am **Pitch presentations (Poster session 2)**
Location: **Prechtlsaal**
Chair: **Matthias Zessner**

11:25am - 12:30pm **Poster session 2**
Location: **Prechtlsaal**
Chair: **Matthias Zessner**

Machine-learning-guided bio-Fenton SBR operation for reducing antibiotic and nutrient loads in wastewater effluents

Chenyang Lin, Tong Shen, Yutaka Sakakibara, Yoshihiko Inagaki
Waseda University, Japan

Occurrence, removal and ecological risk assessment of antibiotics in rural domestic wastewater treatment systems of China

Hongliang Wang
Chinese Research Academy of Environmental Sciences, China

Wastewater treatment in the presence of non-steroidal anti-inflammatory drugs under Feammox conditions

Heylin González[1], Carolina Rodriguéz[2], Macarena González[2], Daniela Rojas[2], Christian González[3], Cesar Huiliñir[4], Jennyfer Serrano[5], Eduardo Leiva[1,2]
1: Departamento de Ingeniería Hidráulica y Ambiental, Pontificia Universidad Católica de Chile.;
2: Departamento de Química Inorgánica, Pontificia Universidad Católica de Chile.; 3: Escuela de Obras Civiles, Universidad Diego Portales.; 4: Facultad de Ingeniería y Ciencias Aplicadas, Universidad de los Andes.; 5: Escuela de Biotecnología, Universidad Mayor.

Towards a Data Driven Decision Framework for Discharge Permits in the Danish Water Sector

Rasmus Dyrmose Nørregaard, Rikke Andersen Lindeque
DHI, Denmark

Enhanced Anaerobic Sulfamate Degradation through Microbial Adaptation and Enrichment

Julian Fränkel, Patrick Arthofer, Thomas Ertl, Claudia Hledik
BOKU University, Institute of Sanitary Engineering and Water Pollution Control

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Bridging laboratory and field evaluation of soil carbon removal using U-Ecotron: A technical standards-based approach

Dong Jun Kim, Heungsun Kim, Sangrae Kim
Korea Conformity Laboratories, Republic of Korea

U-Ecotron: A Controlled Urban Extreme-Climate Platform for Evidence-Based Performance Verification of Diffuse Pollution Control Technologies under the Climate–Pollution Nexus

Heungsun Kim, Dong Jun Kim, Sangrae Kim
KCL(Korea Conformity Laboratories), Korea, Republic of (South Korea)

Investigation of Sediment and Road Runoff Contaminants for Filter Media Design in Nature-Based Green Stormwater Infrastructure

Jayson Cayetano, Marla Maniquiz-Redillas
Department of Civil Engineering, EcoHydrology & Nature-Based Solutions (EcoHydro-NBS), Center for Engineering and Sustainable Development Research (CESDR), De La Salle University, 2401 Taft Ave, Malate, Manila, 1004, Philippines

Evaluating Uncertainty in River Water Quality Index (WQI) Assessment using Monte Carlo Simulation to Support River Basin Management

John Kristoffer Lorenzo[1,2], Sergi Garbanzos[1], Marla Maniquiz-Redillas[1]
1: De La Salle University, Philippines; 2: National University, Philippines

Leaching and Adsorption Behavior of Flame Retardants Associated with Plastic Waste in the Marine Environment of Japan

Hinata Mikuni[1], Tetsuya Takikawa[1], Satoshi Akiyama[2], Yuki Tsujimura[2], Kazushi Noro[3], Takashi Amagai[1]
1: University of Shizuoka, Japan; 2: Agriculture and Fisheries, Osaka Prefecture; 3: National Institute for Environmental Studies

Heavy Metal Accumulation and Transfer Characteristics of Vegetation and Soil in Low Impact Development Systems Treating Urban Stormwater Runoff

Gahyun Lee, Yugyeong Oh, Leehyung Kim
Department of Civil and Environmental Engineering, Kongju National University, Republic of Korea

Microbial Transformations Related to Iron and Nitrogen Cycling in Patagonian Wetlands and Their Potential for Feammox-Driven Nitrogen Removal

Sofía Zelada[5], Heylin Gonzales[1], Carolina Rodríguez[2], Macarena González[2], Daniela Rojas[2], Sabina Lemunao[3], Alejandro Salazar[3], Jennyfer Serrano[4], Eduardo Leiva[1,2]
1: Departamento de Ingeniería Hidráulica y Ambiental, Pontificia Universidad Católica de Chile; 2: Departamento de Química, Pontificia Universidad Católica de Chile; 3: Estación Patagonia de Investigaciones Interdisciplinarias, Pontificia Universidad Católica de Chile.; 4: Escuela de Biotecnología, Universidad Mayor; 5: Departamento de Ingeniería Química y Bioprocesos, Pontificia Universidad Católica de Chile

12:30pm - 1:30pm **Lunch break**
Location: **Prechtlsaal**

1:30pm - 3:00pm

Wetlands, Reservoirs and Irrigation: Balancing Pollution Removal, Ecosystem Services and Environmental Burdens (Orals)
Location: **Boecklsaal**
Chair: **Leehyung Kim**

1:30pm - 1:45pm

Use of Water Treatment Sludge as a Substrate in Constructed Wetlands for Greywater Treatment

Shubhani Sharma, M Mansoor Ahammed
sardar vallabhbhai national institute of technology, India

Emerging Contaminants Across Compartments: Occurrence, Fate, and Risk (Orals)
Location: **Prechtlsaal**
Chair: **Puangrat Kaewlom**

1:30pm - 1:45pm

Assessing PFAS Occurrence, Sources, and Pathways in a Terminal Lake

Krishna Pagilla
University of Nevada Reno, United States of America

1:45pm - 2:00pm

Assessing the Potential Development of Antibiotic Resistance Genes in a Constructed Wetland Treating Livestock Wastewater Effluent

Yugyeong Oh, Miguel Enrico Robles, Leehyung Kim
Kongju National University, Republic of Korea

2:00pm - 2:15pm

Assessment of Diffuse Pollution Removal Efficiency and Ecosystem Services of Small Retention Reservoirs with Wetland Zones in Agricultural Landscapes

Miloš Rozkošný[1], Alena Košťálová[2], Hana Hudcová[1], Petr Kupec[2]
1: TGM Water Research Institute, p.r.i., Czech Republic; 2: Mendel University in Brno, Faculty of Foresty and Wood Technology, Czech Republic

2:15pm - 2:30pm

The use of abandoned horizontal flow constructed wetland to treat combined sewer overflow

Jan Vymazal
Czech University of Life Sciences Prague, Czech Republic

2:30pm - 2:45pm

Investigation of a Multi-Stage Rainwater Harvesting System with Drip Irrigation for Roof Runoff Management

Justine Rey Macalalad, Julius Richel Manlutac, Mario De Leon, Renan Ma Tanhueco, Marla Maniquiz-Redillas
De La Salle University, Philippines

2:45pm - 3:00pm

Comparative Evaluation of Different Irrigation Practices in Sunflower Production through Life Cycle Assessment with Crop Growth Modeling

Mehmet Can Guclu[1], Busra Cicekalan[1], Huseyin Guven[1], Ismail Koyuncu[1,2], Mustafa Evren Ersahin[1,2], Hale Ozgun[1,2]
1: Istanbul Technical University, Civil Engineering Faculty, Department of Environmental Engineering, Maslak, Istanbul 34469, Türkiye; 2: National Research Center on Membrane Technologies, Istanbul Technical University, Maslak, Istanbul 34469, Türkiye

1:45pm - 2:00pm

Concentration trends and concentration-discharge relationships of major pesticides used in the cut-flower sector

Stefanie Lutz[1], Sarah Stadelmaier[1,2]
1: Copernicus Institute of Sustainable Development, Utrecht University, The Netherlands; 2: RPTU University Kaiserslautern-Landau

2:00pm - 2:15pm

Study of the fate of veterinary pharmaceuticals from faeces to soils during an equine castration procedure

Ibrahim El Abbadi, Virginie Pallier, Marília Camotti Bastos, Geneviève Feuillade
University of Limoges, E2Lim, UR 24133, 16 rue Atlantis, 87068 Limoges Cedex, France

2:15pm - 2:30pm

Microplastics: Street Dust to Urban Control Measures

Jejal Bathi, Nishat Tasnim, Mithu Chanda
University of Tennessee at Chattanooga, United States of America

2:30pm - 2:45pm

Ecotoxicity and physicochemical characteristics of plastic-like particles in highway road dust fractionated by electrostatic separator

Kahori Nishida, Soyoung Lee, Kyoshiro Hiki, Tomohiro Tobino, Fumiyuki Nakajima
The University of Tokyo, Japan

2:45pm - 3:00pm

Coexistence of Microplastics with Heavy Metals in Agricultural Soils: Impacts on Metal Behavior, Microbial Communities, and Ameliorations

Morteza Nazaripour, Ahmadreza Khatamgooya, Ashiqur Rahman, Hamed Heidari, Shams Razzak Rothee, Setareh Cheshmekhezr, Eakalak Khan
University of Nevada, Las Vegas, United States of America

3:00pm - 3:30pm — **Coffee break**
Location: **Prechtlsaal**

3:30pm - 5:00pm

Nutrient and Sediment Management: From Source Identification to Load Reduction Targets (Orals)
Location: **Boecklsaal**
Chair: **Markus Venohr**

Governing Diffuse Pollution and Eutrophication: Policy Implementation, Source Apportionment and the Economic Cost of Inaction (Orals)
Location: **Prechtlsaal**
Chair: **Eakalak Khan**

3:30pm - 3:45pm

Identifying Nonlinear Relationships and Landscape Thresholds Between Landscape Patterns and Total Nitrogen Loads of a watershed: A Machine Learning Approach

Xiaoyan Wang, Chengkun Ning
Capital Normal University, China

3:45pm - 4:00pm

Mapping anthropogenic nutrient metabolism hotspots to purification service capacity in a river-connected lake basin

Chenning Deng[1], Linzi Li[1], Chaozheng Zhang[2], Rui Xu[1], Zeqian Zhang[1], Jianglong Cui[1], Xin Xu[1]
1: Chinese Research Academy of Environmental Sciences, China; 2: Hunan Agricultural University, China

4:00pm - 4:15pm

Load Reduction Targets nutrients; methodology en application in the Netherlands to support implementation of the ND and WFD

Peter Schipper, Yanjiao Mi-Gegotek, Wieneke Savonije, Mattijs Hehenkamp, Piet Groenendijk, Erwin Boekel. van
Wageningen University & Research, Netherlands, The

4:15pm - 4:30pm

From Pixels to Policy: Remote Sensing and Fine-Sediment Monitoring for Targeted Phosphorus and Erosion Management in Agricultural Catchments – Insights from the ERWINN Project

Melanie Maxwald[1], Christine Weinberger[1], Max Kuderna[1], Matthias Zessner[2], Nikolaus Weber[2], Sarah Höfler[3], Elisabeth Lauss[3]
1: wpa – Beratende Ingenieure, Lackierergasse 1, 1090 Vienna, Austria; 2: Institute for Water Quality and Resource Management, TU Wien, 1040 Vienna, Austria; 3: blattfisch e.u. - Consultants in Aquatic Ecology and Engineering, Leopold-Spitzer-Straße 26, 4600 Wels, Austria

4:30pm - 4:45pm

Digital Monitoring of Sediment Dynamics at the River–Coastal Interface Using Satellite Remote Sensing and Hydrological Analysis: A Case Study of the Coruh Stream (Batumi, Georgia)

Rayan Nas, Anil Olgac
Department of Water and Environment, Yüksel Proje Inc. Ankara, 06610, Türkiye

4:45pm - 5:00pm

Coupling models for assessing surface-groundwater nitrate pollution in a semi-arid region

Valentina Urrea Vargas[1,2], Laura del Val Alonso[1], Paula Rodriguez Escales[2]
1: Eurecat Centre Tecnològic, Spain; 2: Universitat Politècnica de Catalunya

3:30pm - 3:45pm

From Regulatory Action to Environmental Legacy: Persistent Pesticide Contamination in Water and Food Systems of Thailand Following Chemical Bans

Puangrat Kaewlom[1], Patchimaporn Udomkun[1,2], Thirasant Boonupara[3], Thidarat Rupngam[1,2]
1: Department of Environmental Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand; 2: Office of Research Administration, Chiang Mai University, Chiang Mai, 50200, Thailand; 3: Living Soil Co., Ltd., Chiang Mai, Thailand

3:45pm - 4:00pm

Construction and Demonstration of a Whole-Process Technology System for Agricultural Non-Point Source Pollution Prevention and Control in the Yangtze and Yellow River Basins

Yonghui Song[1,2,3], Jian Zhao[1,3], Congyu Hou[1,3], Haixia Liu[1,3], Jing Bai[1,3], Lijing Wang[1,2]
1: a. State Key Laboratory of Environmental Criteria and Risk Assessment, Chinese Research Academy of Environmental Sciences, 100012 Beijing, China; 2: b. National Joint Research Center for Yangtze River Conservation, Ministry of Ecology and Environment of China, 100012 Beijing, China; 3: c. Institute of Water Ecology and Environment, Chinese Research Academy of Environmental Sciences, 100012 Beijing, China

4:00pm - 4:15pm

Source Apportionment and Discharge Limit Determination of Nitrogen and Phosphorus in Yangze River estuary and Hangzhou Bay, China

Kun LEI[1], Jiayu Peng[1], Jingqiu Jiang[1], Bo Zhou[2]
1: Chinese Research Academy of Environmental Sciences, China; 2: College of Environmental Science and Engineering, Ocean University of China, Qingdao, China

4:15pm - 4:30pm

Development of a Water Budget Model for the Anatolian Side of Istanbul using the Water Evaluation and Planning (WEAP) Tool

Cevza Melek Kazezyılmaz-Alhan, Kebir Emre Saraçoğlu, İsmail Bilal Peker, Sezar Gülbaz, Uğur Boyraz, Mustafa Emirhan Tellioğlu, Muhammet Vefa Urçar, Abdülbaki Hacı
Istanbul University-Cerrahpasa, Turkey

4:30pm - 4:45pm

Revealing the Cost of Water Quality Degradation: A Travel Cost and Substitute Site Approach in an Urban Lake of Central Chile

Carlos Zamorano Catalán[1], Yassine Mimouni[1], Roberto Urrutia[2], Jean-François Deliège[1]
1: Université de Liège, Belgium; 2: University of Concepcion, Chile

5:00pm - 5:15pm	**Technical break**
5:15pm - 6:00pm	**Closing session** Location: **Prechtlsaal**

Friday, November 27

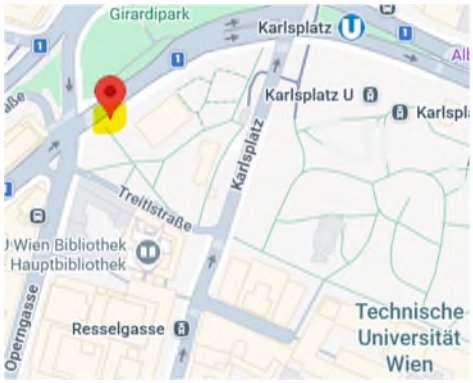
Technical Tours

Technical Tour No.1 (Petronell)

Riverbank and membrane filtration drinking water treatment plant Petronell-Carnuntum

8:45 am – 3 pm

Meeting Point
Operngasse / Karlsplatz, 1010 Vienna



Technical Tour No.2 (Traisen)

Hydropower and large-scale river renaturation

8:15 am – 5:30 pm

Meeting Point
Crossing of Wiedner Hauptstrasse/Resselgasse
Close to tram stop “Resselgasse”, 1040 Vienna

