Date / Time	ne October 21 (Monday)					
9:00-9:30	Registration           [Room: 520]         Opening Greemony           [Room: 520] Chair: Kyung-Duk ZOH (Seoul National University, Korea) [PLI] Trace Organic Contaminants in a One Water World David L. SEDLAK (University of California, Berkeley, USA)           Break (20 min)					
9:30-10:00						
10:00-10:40						
10:40-11:00						
Room No.	520	517	513	516		
Session	Monitoring Method of Micropollutants	Fate and Removal of Micropollutants in Biological Processes-I	Chemistry for Micropollutant Abatement in Oxidative Treatment Processes-I	Kinetics and Ecotoxicity of Micropollutants		
Chair	Maria FURHACKER	Peiying Hong	Sebastien ALLARD	Kenneth M. Y. LEUNG		
11:00-11:20	[ORTI-110] Effects of Calibration Sample Size on Fitting an Extended Cumulative Substance- flow Model for Micropollutant Dynamics within River Networks Geovanni TERAN-VELASQUEZ (TU Dresden, Germany)	(11:00-11:30) [KLT8-315] Enzymatic Cometabolic Biotransformation of Organic Micropollutants Juan M. LEMA (University of Santiago de Compostela, Spain)	[ORT8-264] Optimizing ClO <sub>2</sub> Pre-Oxidation by Predicting Chlorite Oxidation during Chlorination Valentin ROUGÉ (Curtin University, Australia)	(ORTI-129) Coupling of River and Toxicokinetic Models to Predict the Internal Concentrations o Micropollutants in Field Invertebrates Maricor ARLOS (Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland)		
11:20-11:40	[ORT2-094] Polar Organic Chemical Integrative Sampler (POCIS) and Modified POCIS for the Comprehensive Screening of Micropollutant in Water Environment Yoonah JEONG (Korea Institute of Science and Technology (KIST), Korea)	(11:30-11:50) [ORT8-059] Biodegradation of the Endocrine Disrupting Chemical 1%-ethynylestradiol (EE2) by Bacterial Cultures Encapsulated in 30 Microfiltration-Membrane Capsules Eyal KURZBAUM (University of Halfa, Israel)	[ORT8-207] Characterization of Seawater Natural Organic Matters (SNOMs) for Ozonation Homin KYE (Yonsei University, Korea)	[ORT6-209] Monitoring and Risk Assessment of the Reactive Oxygen Species Generation in Aquatic Environment Hyojik YOON (Korea University, Korea)		
11:40-12:00	[ORT2-181] Toxicological Long-term Monitoring of an Advanced Wastewater Treatment Plant (03-6AC) under Operational Conditions Heidemarie SCHAAR (Institute for Water Quality and Resource Management, Austria)	(11:50-12:10) (ORT8-087) The Effects of Individual and Mixture o N-Containing Antibiotics on Nutrient-Removing Organisms and Comammox in two Nutrient Removal Membrane Bioreactors Ryna DE SOTTO (National University of Singapore Singapore)	pH on the Degradation of Tetracycline Songkeart PHATTARAPATTAMAWONG (King Mongkut's University of Technology Thonburi,	[ORT3-089] Toxicogenomic Analysis of Triclosan and its Mixture with Methyl Triclosan using Zebrafish Embryos Fu JING (National University of Singapore, Singapore)		
12:00-12:20	[ORT2-044] Monitoring of Ecological Effluent Quality Originating from the Chemical Tank Truck Cleaning Sector Michel CALUWÉ (University of Antwerp, Belgium)	(12:10:12:30) [ORT8-114] Enhanced Micropollutants Removal by Application of Fungi Laccase with Lignocellulosic Biomass Bo Ram KANG (Yonsei University, Korea)	[POT4-290] The Reactions of Pyrrole, Imidazole, and Pyrazole with Ozone: Kinetics and Reaction Mechanisms Sungeun LIW(Eawag, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland)	[ORT7-078] Investigation of G Protein-Coupled Receptor-acting Pharmaceuticals Responsible for Biological Activities in Wastewater in England Han ZHANG (Kyoto University, Japan)		
12:20-13:30		Lu	nch	·		
13:30-14:10	[Room: 520] Chair: Jaesang LEE (Korea Univers [PL2] Nanotechnology-l	Enabled Water Treatment: A Vision to Enable Decen	tralized Water Treatment and Address Growing Cha (Rice University, USA)	allenges of the Water Energy Nexus		
14:10-14:30		Break (	20 min)			
Room	520	517	513	516		
Session	Occurrence and Fates of Micropollutants in Water-I	Fate and Removal of Micropollutants in Biological Processes-11	Innovative Physicochemical Treatment Processes for Micropollutant Control-I	Risk Assessment of Micropollutants		
Chair	Jaewon CHOI	Seungdae OH	Jaehong Kim	Kyungho CHOI		
14:30-14:50	(14:30-15:00) [K1] Comparative Aquatic Bioaccumulation of Ionizable Contaminants Across Environmental Complexity Bryan BROOKS (Baylor University, USA)	[ORT8-270] eXeno <sup>TM</sup> : Feast-Famine Optimisation of Pharmaceuticals Biodegradation Capacity of Biofilm Biomass Henrik R. ANDERSEN (Technical University of Denmark, Denmark)	(14:30-15:00) [KLT8-291] Laboratory and Pilot-Scale Studies on Innovative Pathways for Removal and Destruction of Perfluoroalkyl Substances (PFAS) Timothy STRATHMANN (Colorado School of Mines, USA)	(14:30-15:00) [KL73-297] Environmental Fate and Ecological Risks of Retinoic Acids and their Metabolites in a Highly Urbanised Coastal City Kenneth M. Y. LEUNG (The University of Hong Kong, Hong Kong, China)		
14:50-15:10	(15:00-15:20) [ORT1-272] Environmental Fate of Pharmaceuticals - via Wastewater to the Baltic Sea Majaorzata SZOPIŃSKA (Gdansk University of Technology, Poland)	[ORT8-188] Biodegradation of Pyrazole, Metformin and Guanylurea in Lab-Scale Rapid Sand Filters Nikki VAN BEL (KWR Watercycle Research Institute, New Zealand)	(15:00-15:20) [ORT8-047] Ozone-ceramic Nanofiltration (NF) Hybrid System For The Destruction Of Perfluorinated Chemicals (PFCs) during Drinking Water Treatment Youngkun CHUNG (Korea Advanced Institute of Science and Technology (KAIST), Korea)	(15:00-15:20) [0RT6-126] Impacts of Micropollutants on Single Bacteria and Bacterial Community Yaohui BAI (Research Center for Eco- Environmental Sciences, Chinese Academy of Sciences, China)		
15:10-15:30	(15:20-15:40) [ORT1-007] Influences of Precipitation on Dilution of Veterinary Medicines in Livestock Wastewater Treatment Plants Seung Joo LIW (Korea Atomic Energy Research Institute, Korea)	[ORT8-191] Anoxic Cometabolism of Organic Micropollutants in an Enriched n-Damo Bacteria Guiture Miguel MARTÍNEZ QUINTELA (Universidade de Santiago de Compostela, Spain)	(15:20-15:40) [ORT8-109] Synergistic Micropollutants Removal and Water Reclamation by Hybrid Catalytic Ozonation-Ceramic Membrane Filtration Process Telk-Thye LIM (Nanyang Technological University, Singapore)	(15:20-15:40) [DRT8-154] Activated Carbon Amendment Reduces Mercury Bioavailability and Toxicity Risk to Benthic Organism: A Microcosm Study Mark Xavier BAILON (Korea University, Korea)		
15:30-15:50	(15:40-16:00) [ORT1-091] Comparison of the Target Multiclass EDCs in Drinking Water Supply System Ahmad Zaharin ARIS (Universiti Putra Malaysia, Malaysia)	[ORT8-260] Fate and Effects of Antibiotic Ciprofioxacin in Nitrifying Activated Sludge Community Donggeon CHOI (Kyung Hee University, Korea)	(15:40-16:00) [ORT8-026] Electrochemical Treatment of Emerging Contaminants using a Three- Dimensional Electrode Reactor Soobin CHO (Pusan National University, Korea)	(15:40-16:00) [0RT6-082] Chemical Risk Assessment in South Korea using ECECTOC TRA Model: Sensitivity Analysis and Spatial Scenarios Sangsoo BAEX (Ulsan National Institute of Science and Technology (UNIST), Korea)		
15:50-16:10	(16:00-16:20) [DRT1-052] Occurrence, Fate and Distribution Profile of VOCs during Coking Wastewater Treatment Processes regarding Industrial Wastewater Framework Directive and Future Regulations Ayman N. SABER (Research Center for Eco- Environmental Sciences, Chinese Academy of Sciences, China)	(ORT8-280) Elucidating The Role of Dissolved Organic Carbon in Biodegradation of Micropolitataria foroundvater Nora SUTTON (Wageningen University, The Netherlands)	(16:00-16:20) (IORT8-074] Removal of p-nitrophenol by Electrocogulation in an Air-Lift Reactor: Optimization through Response Surface Methodology Thiago PEREIRA (The Federal University of Technology – Paraná, Brazil)			
16:10-16:30		Break (	20 min)			
Room	520	517	513	516		
Session	Occurrenc and Fates of Micropollutants in Water-11	Control of Antibiotics and Antibiotic Resistance in Water Disinfection and Oxidation Processes	Innovative Physicochemical Treatment Processes for Micropollutant Control-II	Fate and Control of Micropollutants by Adsorption Processes		
Chair	Klaus KÜMMERER	Jiangyong HU	Teik-Thye LIM	Seok Won HONG		
16:30-16:50	[ORT1-143] Legacy and Alternative PFASs in Industrial Wastewater Focusing on their Detection Patterns and Contribution in the Environment according to Industry Types KIYONG KIM (Pusan National University, Korea)	[ORS1-144] Elimination of Transforming Activity of Plasmid-Encoded Antibiotic Resistance Genes in Water Oxidation and Disinfection Processes: Kinetics and Mechanisms Younggun YOON (Korea Institute of Toxicology, Korea )	[ORT8-022] Treatment of Fluoroborate (BF4-) by Electrocoagulation using Aluminium Electrodes Jui-Yen LIN (National Cheng Kung University, Taiwan)	[ORT1-228] Modelling the Sorption of Macrolide Antibiotic Azithromycin on Sediments Selya HANAMOTO (Public Works Research Institute (PWRI), Japan)		
16:50-17:10	[ORT2-214] Application of Deep Neural Network in Micro-pollutants Analysis for Identification of NOM as an Internal Standard Jongkwan PARK (Ulsan National Institute of Science and Technology (UNIST), Korea)	[ORS1-182] UV-LEDs in Antibiotic Resistance Genes Inactivation Efficiency Monitored with qPCR and Transformation Muhammad UNAR (Norwegian Institute for Water Research (NIVA), Norway)	[ORT8-116] The Use of Positively Charged Graphite Capacitor for Organic Degradation in Water via a Mechanism Analogous to Anodic Doxidation Liangliang XIONG (Wuhan University, China)	[ORT8-151] Selective Adsorption of Aqueous Cesium by Filter Materials Containing Prussian Blue Yuhoon HWANG (Seoul National University of Science and Technology, Korea)		
17:10-17:30	[ORT1-275] Effect of Sludge Treatment Process Type on Fate of PAHs, Nonylphenols and Pharmaceuticals Products Nicolas SERTILLANGES (Institut National de la recherche Agronomique, France)	(ORS1-249) Energy Efficient Ampicillin (AMP) Degradation and AMP Resistant <i>E.coli</i> and its gene Removal by UV-LED/Chlorine Process Tae-Kyoung KIM (Seoul National University, Korea)	[ORT8-271] Macro- and Micropollutants Removal from Landfill Leachates using Nb/BDD and Si/BDD Anodic Oxidation Sylvia FUDALA – SSIAZEK (Gdansk University of Technology, Poland)	[ORT8-125] Adsorption of EE2 and BPA by Phosphonated Levan: A Comparative Study Zehra Semra CAN (Marmara University, Turkey)		
17:30-17:50	[ORT1-277] Does Wastewater Discharge to the Admiralty Bay May Influence Antarctic environment? Case study of Arctowski Station Małgorzata SZOPIŃSKA (Gdansk University of Technology, Poland)	[ORT8-189] Application of Ozone Pre-Treatment for Removal of Antibiotic Ciprofloxacin P. BALAKISHANO (Indian Institute of Technology Madras, India)	(ORT4-103) Factors Affecting N- nitrosodimethylamine (NDMA) Formation during Electrochemical Oxidation of Ranitidine in the Presence of Ammonium Ion Mingizem Gashaw SEID (University of Science and Technology (UST), Korea)	[ORT8-225] A Feasibility Study of Cesium Removal using Rhodococcus Erythropolis Seong-Sik KIM (Kyungpook National University, Korea)		

9:00-9:30	October 22 (Tuesday) Bolistation						
9:30-10:10	Registration [Room: 520] Chair: Jeong-Eun OH (Pusan National University, Korea)						
	[PL3] Advanced Techniques for Non-Targeted Analyses Shane A. SNYDER (Nanyang Environment & Water Research Institute (NEWRI), Nanyang Technological University, Singapore)						
10:10-10:30 Room No.	520	Break (2 517	0 min) 513	516			
Session	Micropollutants in Drinking Water	Fate and Removal of Micropollutants in Biological Processes-111	Nano-Enabled Water Technologies for Micropollutant Control-I	Special Topic I. Antibiotic Resistance 1			
Chair	Shane A. SNYDER	Juan M. LEMA	Pedro J.J. ALVAREZ	Diana S. AGA			
10:30-10:50	(10:30-11:00) [KLT7-292] Pesticides and Volatile Compounds in Drinking Water Quality Standard: Chemical Mixtures and Indirect Exposure Assessment Yoshihiko MATSUI (Hokkaido University, Japan)	[ORT8-030] Influence of Macro-Substrate Composition in Wastewater on Micropollutant Removal Anne CHRISTEN (University of Luxembourg, Luxembourg)	[ORTS-100] Simple Preparation Method of EPS-TIO <sub>2</sub> Composite as a Floating Photocatalyst for Water Purification Chang-Gu LEE (Ajou University, USA)	[ORS1-178] Acquisition of Extracellular DN by Acinetobacter Bayly ADP1 in Response to Mutagenic Stress from Disinfection Strategies Pelying HONG (King Abdullah University o Science and Technology (KAUST), Saudi Arabia)			
10:50-11:10	(11:00-11:20) [ORT1-003] Metabolites of Chloroacetamides within Various French Drinking Water Treatment Plants: Occurrence and Treatability Amélie GUILLON (SUEZ-CIRSEE, France)	(ORT8-123) Biological Pre-Treatment for Coconation of Micropoliutants in Wastewater Treatment Plant Effluent Koen VAN GJJN (Wageningen University, The Netherlands)	[ORT5-016] Activation of Peroxymonosulfate by g-C3N4 under Visible Light Irradiation for Carbamazepine Degradation Li LING (The Hong Kong University of Science and Technology, Hong Kong, China)	[ORS1-057] Occurrence and Fate of Antibiotics, ARB, and ARGs in a Full-scale Wastewater Treatment Plant Ngoc Han TRAN (National University of Singapore, Singapore)			
11:10-11:30	(11:20-11:40) [ORTIO-096] Occurrences of Pharmaceuticals and Personal Care Products in Drinking Water of Taiwan and their Removals in Water Treatment Processes Chih-Wei PAI (National Taiwan University, Taiwan)	[ORT8-128] Combining PAC-adsorption and Nitrification in an MBBR Ellen EDEFELL (Lund University, Sweden)	[ORT5-097] Photocatalysis Assisted by Peroxymonosulfate for Perfluorooctanoic Acid Removal In Ga20/UV system John ZHOU (University of Technology Sydney, Australia)	[ORS1-077] Modeling Transport of Escherichia Coli and Antibiotic Resistance Genes (ARGs) in a Recreational Beach Minjeong KIM (Ulsan National Institute o Science and Technology (UNIST), Korea)			
11:30-11:50	(11:40-12:00) (DRT1-086) Target Multiclass EDCs in Tap Water of DIfferent Housing Types in an Urban Settlement Sze Yee WEE (Universiti Putra Malaysia, Malaysia)	[ORT8-171] Fate of Organic Micropoliutants during the Preconcentration Step of Organic Carbon in Novel Wastewater Treatment Plant Configurations Francisco OMIL (Universidade de Santiago de Compostela, Spain)	[ORT9-071] Degradation of Bisphenol a by Peroxymonosulfate Activated with CuMnO <sub>2</sub> Nanoparticles: Efficiency and Mechanism Bin DENG (Wuhan University, China)	[ORS1-244] The Fate of Antibiotic Resistance Genes during Start-Up of Thermophilic Anaerobic Digestion Jingyeong SHIN (Gwangju Institute of Science and Technology (GIST), Korea)			
11:50-12:10	(12:00-12:20) [ORT2-120] Exploring Microbial Communities in Aquifers used for Drinking Water Production in The Netherlands Andrea ALDAS-VARGAS (Wageningen University, The Netherlands)	[ORT8-197] How Should ECOHAZARD of MICROPOLLutants in Wastewater Be Gauged? Using Bioassays to Profile Alternative Tertlary Treatments Matteo PAPA (University of Brescia, Italy)	[ORT5-196] Chitosan-MnO <sub>2</sub> Nanocomposite for Effective Removal of Cr (VI) from Aqueous Solutions Van-Phuc DINH (Duy Tan University, Vietnam)	[ORS1-274] Emerging Antimicrobial Resistance Phenotypes in Liquid By Products Generated at Municipal Solid Waste Plant Ewa KOTLARSKA (Polish Academy of Sciences, Poland)			
12:20-13:30		Lun	ch				
Room No.	520	517	513	516			
Session	Screening and Analytical Methods of Micropollutants in Water	Fate and Removal of Micropollutants in Biological Processes-IV	Nano-Enabled Water Technologies for Micropollutant Control-II	Special Topic I. Antibiotic Resistance 2			
Chair	Yoshihiko MATSUI	Jeonghwan KIM	Timothy STRATHMANN	Sungpyo KIM			
13:30-13:50	[ORT8-138] Nontarget Screening of Pharmaceuticals during Production of Urine- derived Fertilizers William TARPEH (Stanford University, USA)	(ORT8-253) Cometabolic Biotransformation of Organic Micropoliutants under Aerobic Heterotrophic Conditions David M. KENNES-VEIGA (Universidade de Santiago de Compostela, Spain)	(13:30-14:00) [KLT5-301] Toward Single Atom Catalysis for Environmental Application Jaehong KIM (Yale University, USA)	(13:30-14:00) [KLT2-308] Global Reconnaissance of Antimicrobials in Surface Water by Target and Non-target Analysis Diana S. AGA (University at Buffalo, USA)			
13:50-14:10	(ORT1-202) Target, Suspect and Nontarget Screening for Tracking Organic Contaminants in Nakdong River and its Tributaries, Koroa Naree PARK (Changwon National University, Korea)	(ORT8-256) Removal of Contaminants of Emerging Concern from High Nitrogenous amMBR Effluent with Advanced Oxidation and Grandar Activated Carborn Nicolas AUCSBURGER (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)	(14:00-14:20) [ORT9-25] V.O. Nanoparticle-Doped Ceramic Ultratilitration Membrane for the Enhanced Ozonation of Emerging Contaminants in Drinking Water Treatment Hyelyeon TAK (Orea Advanced Institute of Science and Technology (KAIST), Korea)	(14:00-14:20) [ORS1-084] Are ESBL-Producing <i>E. Cal</i> Isolated from a WWTP Effluent More Resistant to UV Light at Different Wavelengths: Oriana JOVANOVIC (The Hong Kong University of Science and Technology, Hong Kong, China)			
14:10-14:30	[ORT2-320] Nanostructure-Based Raman Spectroscopy for Monitoring Waterborne Micropolitutants and Biohazards Sang-Woo JOO (Soongsil University, Korea)	[ORT8-261] How Can be Boosted the Biotransformation of Organic Micropollutants during Anaerobic Digestion? Juan M. LEMA (University of Santiago de Compostela, Spain)	(14:20-14:40) (DRT8-172) Simple Iron Immobilization on Graphene Oxide for Persulfate Activation: Radicals and Singlet Oxygen Mediated Oxidation Yu-Gyeong KANG (Pohang University of Science and Technology (POSTECH), Korea)	(14:20-14:40) [ORS1-124] Free Extracellular DNA Removal from Water and WWTP Effluen by Adsorption on Activated Carbon and Zeolites Daniela REIF (TU Wien, Austria)			
14:30-14:50	[ORT2-132] Monitoring of the Natural Toxin Ptaguloside in Groundwater - a Novel Sample Preparation Method Natasa SKRBIC (University of Copenhagen, Denmark)	[ORS1-279] Influence of Side Stream Supersaturated Aeration Technology on Membrane Fouling and Azithromycin Removal in a Membrane Bioreactor Sang Yeolo Kill (HE Deff Institute for Water Education, The Netherlands)	(14:40-15:00) [0RT8-174] Effect of Structure and Fluorine Position on Hydrodefluorination of Fluoroaromatic Polituants by Zeolite Supported Rh-Based Catalysts Seon Young AN (Seoul National University, Korea)	(14:40-15:00) [ORS1-218] The Effects of the Reactive Oxygen Species on Antibiotic Gene Transfer Jungyu KIM (Korea University, Korea)			
14:50-15:10	[ORT2-237] Effect-Directed Analysis with a Combination of HPTLC and a Bioassay for the Simultaneous Detection of Three Endocrine Effects Nicolai BAET2 (Institute of Energy- and Environmental Technology, Germany)	[ORT8-042] Elucidation of Micropollutants Biodegradation Mechanisms in Tertiary MBBR Treatment Albasi CLAIRE (Université de Toulouse, France)	(15:00-15:20) [ORT5-043] Surface Defective Multi-Walled Carbon Nanotubes with Enhanced Catalytic Activity in Fenton-Like Reactions Sawaira ADL (Korea Institute of Science and Technology (KIST), Korea)				
15:10-15:30		Break (2	10 min)				
Room No.	520	517	513	516			
Session	Special Topic II. Microplastics -1	Innovative Oxidative Treatment Processes for Micropollutant Control	Chemistry for Micropollutant Abatement in Oxidative Treatment Processes-11	Special Session I - Fight-Back Strategy against the Spread of Antibiotics and Antibiotic Resistance in Aquatic Environment: A Holistic Approach for Livestock Manure Management			
Chair	Patrick BAUERLEIN	Jochen TUERK	Urs Von GUNTEN	Sungpyo KIM			
15:30-15:50	(15:30-16:00) [KLS2-147] Transport of Microplastics from Rivers to Oceans Eddy Y. ZENG (Jinan University, China)	[ORT8-064] The Electro-Peroxone Process for the Abatement of Emerging Contaminants: From Batch to Pilot Scale Huijlao WANG (Tsinghua University, China)	[ORT8-282] Roles of Halogen Radicals in the Degradation of Emerging Contaminants by the UV/chlorine Process Jingyun FANG (Sun Yat-sen University, China)	(15:30-15:35) Opening address Kyung-Duk ZOH (Seoul National University Korea) (15:35-15:40) Welcome Remarks (Y. S. AHN)			
	[KLS2-147] Transport of Microplastics from Rivers to Oceans	the Abatement of Emerging Contaminants: From Batch to Pilot Scale	Degradation of Emerging Contaminants by the UV/chlorine Process Jingyun FANG (Sun Yat-sen University,	Kyung-Duk ZOH (Seoul National University Korea) (15:35-15:40) Welcome Remarks (Y. S. AlNI) (15:40-16:00) (SS1-1) Comparison of Different Workflow In Non-Target Analysis of Surface Water Samples using Orbitrap LC-MS			
15:50-16:10	[KLS2-147] Transport of Microplastics from Rivers to Ocoans Eddy Y. ZENG (Jinan University, China) (16:00-16:20) (DRS2-158) Occurrence of Microplastics in Korean Agricultural Environment Seung-You KMI (Incheon National University,	the Abatement of Emerging Contaminants: From Batch to Piot Scale Huijiao WANG (Tsinghua University, China) (ORT8-119) Effect of Ozonation on Ecotoxicity Removal from Tank Truck Cleaning Wastewater Sven POELMANS (University of Antwerp,	Degradation of Emerging Contaminants by the Ul/Vichoire Process Jingyun FANG (Sun Yat-sen University, China) [ORT8-311] A Robust TU/Sb-SnO2 Anode with N/C-doped Interlayers for Enhanced 1,4-Dioxane Degradation Naresh MAMEDG (Kyungpock National	Kyung-Duk ZOH (Seoul National University Korea) (15:35-15:40) Welcome Remarks (Y. S. AlNI) (15:40-16:00) (SS1-1) Comparison of Different Workflow In Non-Target Analysis of Surface Water Samples using Orbitrap LC-MS			
15:50-16:10 16:10-16:30	[ILS2-14] Transport of Microplastics from Reven to Deams Eddy Y. ZENG (Jinan University, China) (6:00–16-20) (10452–163) calurat Environment Surany-Fug UtiM (Incheon National University, Korea) (16:05–25:21) patientiation of Microplastics in (1060–25:22) (Distiluation of Microplastics in Teal-In PARK (National Institute of Teal- Institute and Ethin Inthe Rever Teal-In PARK (National Institute of Teal-Institute of Teal (Teal-Institute of Teal-Institute of Teal (Teal-Institute of Teal)	the Ablatement of Emerging Contaminants- from Batch (p 1015 Sale Huljao WANC (Tsinghua University, China) (ORTE-1019) Effect of Ozonation on Ostobacie) Renework of Mark Truck Caraling Wastewater Soun ROELMANS (University of Antworp, Beiglum) (ORTE-0-055) Effect of Ozonation and Photo- Ostalation of Ozonatio Anal Photo- Ostalation of Ozonationations in Manicipal Sowage.	Degradation of Emerging Contaminants by the UVLohlome Process Jingyun FNAG (Sun Yat-sen University, China) (RRT8-311) A Robust TU/Sib-SnO2 Anode with NUC-dopad Interlayers for Enhanced 1, 4-Bocause Degradation fueror MUED: (Voyangook National University, Korea) (DRT8-037) Micropolitant Removal by UV- ED/chroine Akado O dodation Process Followed by Activated Carbon Adsorption Ray YN (Che Hong Kong University of	Kgung-Duk ZDH (Seoul National University Koras) (15:35-15:40) Welcome Remarks (Y. S. Ahlt) (15:40-16:00) (15:41) Comparison of Different Workflow In Non-Target Analysis of Surface Water Dama S. AGA (University at Burflab, USA) (16:00-16:20) (16:31-23) Source and Mechanisms of (16:31-23) Source and Mechanisms of (16:31-23) Source and Mechanisms of Sangapore, Singapore) (16:26-16:40) (16:33-13) Spread of Antibiotics from			
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 16:50-17:10	[ILS2-14] Transport of Microplastics from Rivers to Oceans Eddy Y. ZENG (Jinan University, China) [Id50-1630) [Onco-164] Occurrence of Microplastics in [Onco-164] Occurrence of Microplastics in [Onco-164] Occurrence of Microplastics in [Id50-1540] [Onco-262] Occurrence of [Id50-2540] [Onco-262] Occurrence of [Id50-2540] [	the Ablatement of Emerging Contaminants: From Batch IP bill Scale Hujjao WANG (Tsinghua University, China) (ORT8-119) Effect of Ozonation on Ecotoxidy Removal from Tark Truck Ceaning Wastewer Belgium) (ORT10-055) Effect of Ozonation and Photo- Oxidation of Organic Micropolitums in Mincipal Scooge Natolia Of Organic Micropolitums in Mincipal Scooge Natolia Of To (University of Stuttgart, Germany) (ORT10-051) Pharmaceuticals Removal by UV and UV/N-Q, in a Wide Range of Water And Wastewater Martices Gambaig UTTICLERI (ICRA - catalan Institute Of Water Research, Spain) (ORT8-023) Microbabble Ozonation of the Antoxidant Butyleted Hydrogrotelene:	Degradation of Emerging Contaminants by the UVIchiome Process Jeaguer NAIC Gun Yat-sen University. Chron (OR16-311) A Robust TI/Sb-Sn02 Anode with N/C doped Interlayers for Enhanced 1, 4-Docane Degradation National WICDD (Kyungpook National University, Korol (OR16-037) Micropoliutant Removal by UV- ED/chrome Advanced Oxidation Process UR16-037) Micropoliutant Removal by UV- ED/chrome Advanced Oxidation Process Science and Technology, Hong Kong, China) (OR16-037) Lostermination of Rate Constants for the Reaction of Cl and Cl, with Trace Organic Contaminants	Kgung-Duk ZDH (Seoul National University Koran) (15:35-15:40) Welcome Remarks (Y. S. Ahm) (15:40-16:00) [35:11] Comparison of Different Workflow In Non-Target Analysis of Surface Water Danas S. AGA (University at Burflato, USA) (16:40-16:30) (16:40-16:30) (16:40-16:30) (16:51-33) Spread of Antibiotics from Livestock Manure and Holchaniers of Singapore. Singapore) (16:20-16:40) (16:21-16:40) (16:21-16:40) (16:21-16:40) (16:21-16:40) (16:21-16:40) (16:21-16:40) (16:21-16:40) (16:21-16:40) (16:21-16:40) (16:21-17) (Jobilianam-do Environmental Industries Fromotion Institute, Korea) (16:40-17:00)			
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9:00-9:30	October 23 (Wednesday)						
	Registration						
9:30-10:10	[Room: 520] Chair: Yunho LEE (Gwang)u Institute of Science and Technology (GIS1), Koras) [PL4] Qiodation Processes in Water Transment: Are We on Track? Urs Von GUNTEN (Eawag-Swiss Federal Institute of Aquatic Science and Technology, Switzerland)						
10:10-10:30							
Room No.	520 Fate and Removal of Micropollutants in	517 Control and Management of	513	516 Special Session II: Effect-Based			
Session	Eco-Engineered Treatment Processes	Micropollutants in Water Reuse	Special Topic 11. Microplastics-2	Methods such as Epigenetic and Neurotoxicity and Monitoring			
Chair	Am JANG	Changha LEE	Eddy Y. ZENG	Maria FÜRHACKER, Jlangyong HU			
10:30-10:50	(ORT4-076) Combined Treatment of Organic contaminants in Reverse Osmosis Concentrate using Ozone and Open-Water Wetlands Rachel SCHOLES (University of California, USA)	(10.30-11.00) (KLT9-209) Towards a Better Understanding de Crisharcement of Wastewater Reuse in Agriculture Despe FATTA-KASSINOS (University of Cyprus, Cyprus)	(ORS2-112) Microplastics in Combined Sewer Systems Vancsas SPELTINHN (RWTH Aachen University, Germany)	(10:30-10:40) Introduction to the Topic Maria FUBHACKE (ROKU-University) of Natural Resources and Life Sciences, Austria) (10:40-11:00) (552-1) Use of Biloassays for the Toxicological Evaluation of Trace Substances in the Water Cycle T. GRUMMT			
10:50-11:10	(ORT8-020) Degradation of Climbazole and Fluconazole in Intermittently Loaded Constructed Wetlands Adam SOCHACKI (Czech University of Life Sciences Prague, Czech Republic)	(11:00-11:20) [ORT9-073] Assessment of Post Treatment of Biologically Treated Wastewater of Small Sized Settlements through VUV Degradation of Pharmaceutical Residues Victor G. MIHUCZ (ELTE - Eotvos Lorand University, Hungary)	[ORS2-069] Quantification of Semi- Crystalline Microplastics in Industrial Wastewaters using Differential Scanning Calorimetry (DSC) Hajo BITTER (Technische Universitat Darmstadt, Germany)	(11:00-11:20) (SS2-2) Methodological Concepts for the Evaluation of the Interaction of Toxicological Effects using the Example of Neurotoxicity J. KUCKELKORN, T. GRUMMT			
11:10-11:30	[ORT8-024] Iron Turning Waste Filter For Treating Chlorinated Pesticides in Water and Microbial Regeneration of Filter Media Eakalak KHAN (University of Nevada, Las Vegas, USA)	(11:20-11:40) (ORT9-131) Vital Urban Filter: A Novel Solution to Remove Pharmaceuticals from Urban Wastewater for Healthy Reuse Elacidya SITHAMPARANATHAN (Wageningen University & Research, The Netherlands)	[ORS2-159] Occurrence of Microplastic around the King Sejong Station, the Antarctic Ji-Su KIM (Incheon National University, Korea)	(11:20-11:40) [SS2-3] Epigenetic Effects - Another Issue Which Needs to be Handled Maria FURHACKER (BOKU-University of Natural Resources and Life Sciences, Austria), A. HASLBERGER			
11:30-11:50	[ORT8-185] Influence of Algal Organic Matter on the Removal of Trace Organic Contaminants in Mnanged Aquifer Recharge Sung Kyu MAENG (Sejong University, Korea)	(11:40-12:00) [QRT9-058] Comparison of Ozone-Based Advanced Oxidation Processes for Micropollutant Abatement and Bromate Inhibition Yang GUO (Tsinghua University, China)	(0RS2-085) Quantification of the Microplastic Pollution in the Chattahoochee River Watershed (Southeast USA) and its Associated Microbiome (cyuhyon Crk4) (Georgia Institute of Technology, USA)	(11:40–12:00) (SS2-4) Ecotoxicogenomic Analysis using High-throughput Transcriptomics and Metabolomics for Comprehensive Toxicity Testing Sungwoo BAC (National University of Singapore, Singapore)			
11:50-12:10	[ORT8-039] Diffusion of Hydrophilic Micropoliutants in Granular Activated Carbons with Different Pore Sizes Laura PIAI (Wageningen University, The Netherlands)	(12:00-12:20) (ORT8-298) Understanding Removal of Micropoliutants in Anaerobic Fluidized Bed Membrane Bioreactor Treating Low-Strength Wastewater Jeonghwan KIM (Inha University, Korea)	[ORS2-194] Microplastics as Effective Carriers of Antibiotic Resistance Genes in Wastewater Treatment Plants with Antibiotic Selector Prince Mar ALETA (Korea University, Korea)	(12:00-12:10) Discussion and Exchange of Experience between the Participants/Summary Jiangyong HU (National University of Singapore, Singapore)			
12:20-13:30		Lunch	<b>I</b>	<b>I</b>			
Room No.	520	517	513	516			
Session	Transformation Products in Natural and Technical Treatment Systems-I	Pilot-and Full-Scale Studies for Micropollutant Removal-I	Special Topic II. Microplastics-3	Special Session III: Management of Micropollutants in the Developed and Developing Countries			
Chair	Chil SHANG	Despo FATTA-KASSINOS	Seung-Kyu KIM	Gen-Shuh WANG, Jiangyong HU			
3:30-13:50	(ORT4-040) Ozonation Transformation Products in Water and Wastewater Treatment with Ozone and Biological Post- Treatment Christa S. McARDELL (Eawag, Switzerland)	(ORT10-108) Elimination of Micropollutants by Activated Carbon from Wastewater Screenings Julian FIRK (RWTH Aachen University, Germany)	(ORS2-273) Float-Cast Microsleves Werner A. GOEDEL (Chemnitz University of Technology, Germany)	(13:30-13:40) Introduction Gen-Shuh WANG (National Taiwan University, Taiwan) (13:40-14:00) (SS3-1) Progress of the Management Framework in Taiwan Gen-Shuh WANG (National Taiwan University, Taiwan)			
13:50-14:10	[ORT4-041] NO Reductase Cometabolic Biotransformation and NO-Mediated Abiotic Transformation of Amines in Denitrifying Studge Serge CHIRON (Montpellier University, France)	[ORT10-118] Impact of Operation Mode for Biochar and Zeolite-Based Planted Vertical Flow Wetlands: How to Enhance the Removal of 27 Micropolituation in Medium-Sized WWTP Hana BRUNHOFEROVA (University of Luxembourg, Luxembourg)	[ORS2-245] Micro and Nano-Particles of Expanded Polystyrene Exposed to Sunlight Young Kyoung Song (Korea Institute of Ocean Science and Technology (KIOST), Korea)	(14:00-14:20) [S33-2, ORT7-136] Upgrade of WWTPs for Micropolitant Removal – the "Micropolitant strategy" of the German Federal State Baden-Württemberg Marie LAUNAY (University of Stuttgart, Germany)			
14:10-14:30	[ORT4-011] Transformation of an Amine Molety of Atenolol during Water Treatment with Chlorine/UV: Reaction Kinetics, Products, and Mechanisms Jiwoon RA (Gwangju Institute of Science and Technology (GIST), Korea)	(ORT10-137) Evaluation of a Biological Post- Treatment after Full-Scale Ozonation at a Municipal Waste Water Treatment Plant Jochen TUERK(Institut für Energie- und Umwelttechnik e.V., University Duisburg-Essen, Germany)	(ORS2-285) Characterization, Quantily, and Size of Microplastics Used as Scrub Materials in Facial Scrubs Products Khatrya OUWAI (Kyoto University and Mahidol University (Double Degree Program), Thalland)	(14:20-14:40) [SS3-3] Current Status of Micropolutant Monitoring and Mangement Improvement Plan In South Korea Tae-Jin PARK (National Institute of Environmental Research, Korea)			
14:30-14:50	(ORT4-065) Prioritizing Drug TPs Solely Formed by Photolysis in Surface Waters using LC-HR-MS Sandra PEREZ (IDAEA-CSIC, Spain)	(ORT10-140) Catalytic Ozonation of Wastewater: Disinfection, Removal of Micropolituratis and Residual Toxicity Rovshan MAHHUDOV (Air Liquide Delaware Innovation Center, USA)	[ORS2-067] From Surface Water to Tap Water – Removal of Anthropogenic Nanoparticles – and Plastics by Various Treatment Steps Patrick BAUERAEIN (KWR Watercycle Research Institute, The Netherlands)	(14:40-15:00) (SS3-4) Potential Surrogates for Monitoring of Micropolitutaris in Water Jiangyong HU (National University of Singapore, Singapore)			
14:50-15:10	(ORT4-305) Screening of Micropollutants and their Transformation Products in Performic Acid Treated Wastewater Maolida NIHEMAITI (Université Paris-Est Cré tell, France)	[ORT8-258] eXeno <sup>M-</sup> : New Operational Strategy of MBBR for Removal of Micropollutants in Municipal Wastewater—Results from Pilot Operation Elenal TORRESI (Veolla Water Technologies- AnoxKaldnes, Sweden)	[ORS2-164] Sinking Mechanism of Microplastic Particles in the Aquatic Environment Hwang LEE (Incheon National University, Korea)	(15:00-15:10) Discussion / Wrap up Jiangyong HU (National University of Singapore, Singapore)			
15:10-15:30		Break (20 r	nin)				
Room No.	520	517	513	516			
Session	Transformation Products in Natural and Technical Treatment Systems-II	Pilot-and Full-Scale Studies for Micropollutant Removal-II	Innovative Physicochemical Treatment Processes for Micropollutant Control- III	Special Session IV-Monitoring of Unregulated Micropollutants in the Water Environment			
Chair	Christa S. McARDELL	Eakalak KHAN	Gianluigi BUTTIGLIERI	TBA			
5:30-15:50	[ORT1-046] Quatemary Ammonium Compounds as Potential Catalysts for the Formation of Carcinogenic N-nitrosamines in Water Florian BREIDER (EPFL-Swiss Federal Institute of Technology Lausanne, Switzerland)	[ORT10-230] Behaviour of Diclofenac and Carbamazepine in Wastewater and Sludge: Comparision of Activated Sludge Process and Waste Stabilization Ponds Taylan DOLU (Konya Technical University, Turkey)	[ORT8-025] Impact of EBCT on Loading and Operation Strategies of GAC Filters Thomas FUNDNEIDER (Technische Universit at Darmstadt, Germany)	(15:30-16:00) (KLT2-293) Green and Sustainable Chemistry Measures for Input Prevention of Micropoliutants at the			
			[ORT8-259] Role of Organic Fouling Layers	Source Klaus KÜMMERER (Leuphana University			
5:50-16:10	[ORT4-079] Ozonation of Microcystins: Kinetics and Toxicity Decrease Min Sik KIM (Seoul National University, Korea)	[0RT10-236] Pilot-Scale Removal of Pharmaceuticals and Toxicity in Staged Biofilm Systems Combined with Ozone Kai TANG (Technical University of Denmark, Denmark)	during the Rejection of Micropollutant by FO Membrane Duksoo JANG (Korea Advanced Institute of Science and Technology (KAIST), Korea)	of Lüneburg, Germany)			
	Kinetics and Toxicity Decrease Min Sik KIM (Seoul National University,	Pharmaceuticals and Toxicity in Staged Biofilm Systems Combined with Ozone Kai TANG (Technical University of Denmark,	during the Rejection of Micropollutant by FO Membrane Duksoo JANG (Korea Advanced Institute of	of Lüneburg, Germany) [16:00-16:30] [KLT-30] The Current Status of [KLT-30] The Current Water Environment Jeony-Eun OH (Pusan National University, Korea)			
15:50-16:10 16:10-16:30 16:30-16:50	Kinetics and Toxicity Decrease Min Sik KIM (Seoul National University, Korea) [ORT4-265] Oxidative Removal of Micropoliutants by Fenton and Ozonation and Qualitative Determination of By-Products Harva AFES (Korya Technical University,	Pharmaceuticals and Toxidity in Staged Biofilm Systems Combined with Ozone Kai TANG (Technical University of Denmark, Denmark) (ORT10-266) VOC Removal by Innovative Hydrophobic Membrane Technology: Benchmarking against Conventional Processes	during the Rejection of Micropolitant by FO Membrane Duksoo JANG (Korea Advanced Institute of Science and Technology (KAIST), Korea (IORT1-104) Behaviour of Illicit Drugs and Psychopharmacultasis in Watsetwater Treatment Luis RESTREPO VIEIRA(Curlin University,	[16:00-16:30] [KLT1-304] The Current Status of Micropoliutants in Korean Water Environment Jeong-Eun OH (Pusan National			
16:10-16:30	Knetics and Toxicity Decrease Min Six KLM (Scoul National University, Karea) 10874-2451 Oxidative Removal of Micropolitularitis by Feriton and Octovation and Sualitative Determination of the Products Havva ATES (Konya Technical University, Turkey) (10874-273) Estimation of the Formation Micropolity Statistics of the Formation Micropolity Statistics of the Formation Preventic Charge Theories Theories Theory Prevention Transformation Prevention Theorem 2016	Pharmacetricities and Toxicky in Staged Biolifim Systems Continued with Dozne Kai TANG (Technical University of Denmark, Dommir) (IRT10-266) VOC Removal by Innovative Hydrophobic Membrane Technology: Benchmarking against Conventional Processes Septiden MSSANZADER (SUEE, Trance) (IRT10-267) Micropolitatient Removal with Genralated Actived Cactorn under Wet Weather Conditions at the WUMP Marnhem	during the Rejection of Micropollutant by FO Mimbrane Duksoo JUNG (torea Advanced Institute of Science and Technology (KAIST), Korea) ORT1-104] Behaviour of Illicit Drugs and Opschopharmaceuticats in Wastewater Treatment Lass REST/REPO VIEIRA(Curtin University, Australia) (ORT3-031] The Ecotoxicity of Cabapentin to Ecyty Developmental Stage of Zebrafish	[16:00:16:30] [KLT:30:1] The Current Status of [KLT:30:1] The Current Status of Environment Jeong-Euro DH (Jusan National University, Korea) [POS-113] Development of UHPKC. Debrings B5 Methods for the Identification of Ubenom Micropolitants in Sortice Water Jush OH (National Institute of			
6:10-16:30 6:30-16:50	Kinetics and Toxicity Decrease Min Six KIM (Scoul National University, Korea) 10R74-2651 Oxidative Removal of Micropolitularits by Fenton and Ozonation and Qualitative Determiniation of By-Poduds Havva ATES (Konya Technical University, Turkey) IOR74-278] Estimation of the Formation Micropolitularits of the Analysis of the Neural Compounds in Water Chierination By using <sup>10</sup> C-babed Phenols Erika OKUTA (Kyoto University, Japan) 10R78-0793 Sulforsantide Antiliberics Degradulon by Air-Assisted Inter-Term Pathoney and Chemical Transformation Pathoney and Chemical Transformation Pathoney and Chemical Transformation Pathoney and Chemical Transformation	Pharmacerizatisk and Toxicki jn Staged Biolfim Systems Continued with Dozne Kai TAMC (Technical University of Denmark, Denmark) (DRT10-266) VOC Removal by Innovatilte Hydrophobic Wenthrane Technology: Benchmarking against Conventional Processes Septideh HASSANZADEH (SUEZ, France) (DRT10-267) Micropoliutant Removal with Granulated Activated Carbon under Weith Manheim Activated Carbon under Weith Wather Conditions at the WUTP Manheim Johanna NEEF (University of Stuttgart, Germany) (DRT10-269) Micropoliutants Removal from Longitud Leachet of HS cale Advanced Treatment Plant	during the Rejection of Micropolutant by FO Membrane Duisoo. JUNG (Korea Advanced institute of Science and Technology (IAST)), Korea) (2017)-10(1) Behaviour of Illicit Drugs and Psychopharmaceuticals in Wastewater Treatment Luis RESTREPO VIEIRA(Curtin University, Australia) (2017)-2011 The Ecotoxicity of Gabapentin to Early Developmental Stage of Zebrafsh Yide HE (Nanjing Tech University, China) (2015)-131) Characterization of Zinc Oxide Monopaticals by Sutidiation and its Effect on Toxicity Cyu-Dong LEE (Secol National University of Science and Technology, Korea)	(1+00-16-30) (KLT)-304] The Current Status of Micropolutions in Korean Water Environment Jeong Euro HP (Fusan National University, Koras) (POT2-175) Development of UHPLC- Orbitrap MS Method for the Identification of Unknown Micropolutans in Strafee Water Janch Off (National Institute of Environmental Research, Korea) (POT2-241) Establishment of Analytical Match of In-Microalicalis in Watur Samples from the Livestock Fram Anaa Nepro IEE (National Institute of			