

Agenda of 2024 IWA Micropol

Day3 (Wednesday, June 19, 2024)

	Shih-Liang Chien Lecture Hall	301 Lecture Room	302 Lecture Room
09:00-09:40	<p>Keynote Lecture Chair: Prof. Pao-Wen Grace Liu, <i>Chung Hwa University of Medical Technology</i></p> <p>K04 Occurrence and Oxidation Treatment of a few Emerging Cyanotoxins and Cyanopeptides in Taiwan's Source and Drinking Water Prof. Tsair-Fuh Lin, <i>National Cheng Kung University</i></p>		
	<p>Control of Micropollutants in Drinking Water Chair: Prof. Mengyan Li, <i>New Jersey Institute of Technology</i></p>	<p>Occurrence of Micropollutants in Water Environment Chair: Prof. Wei-Hsiang Chen, <i>National Sun-Yat Sen University</i></p>	<p>Catalyzed Photo-Oxidation of Micropollutants in Water Chair: Prof. Ching-Yao Hu, <i>Taipei Medical University</i></p>
09:50-10:10	<p>A19 Anticipation of Micropollutant Breakthroughs on GAC for Drinking Water Production: An Operational Monitoring Tool Relying on a Differentiating Scientific Approach Olivier Danel, <i>Suez CIRSEE</i></p>	<p>B15 Release of Microplastics from Ultrafiltration Membrane System for Drinking Water Treatment Under Different Operating Conditions Thitiwut Maliwan, <i>National University of Singapore</i></p>	<p>C27 Effective Removal of Tetracycline by Artificial and Natural Source Derived Carbon Quantum Dots-Based Nanocomposites Under Visible Light Nayoon Choi, <i>Seoul National University of Science and Technology</i></p>
10:10-10:30	<p>A20 Prediction of Organic Miropollutant Oxidation in Drinking Water Treatment, Based on QSPR Modelling Roberta Hofman-Caris, <i>KWR Water Research Institute</i></p>	<p>B16 Occurrence of Cationic Surfactants and Pharmaceuticals in Japanese Catchments Receiving Effluents from Households and Swine Farms Seiya Hanamoto, <i>Kanazawa University</i></p>	<p>C28 Sunlight Photodegradation of Plasmid-Encoded e-ARG in Natural Sunlit Surface Water: Kinetics, Pathways, and Model Validation Sujin Shin, <i>Gwangju Institute of Science and Technology</i></p>

10:30-10:50	<p>A21 Rapid Degradation of Halogenated Contaminants by Far-UVC Photolysis of Iodide in Drinking Water</p> <p>Yuliang Zhang, <i>The Hong Kong University of Science and Technology</i></p>	<p>B17 Nanoplastics in Surface Water Are Unlikely to Aggregate - Effect of Size, Ion Concentration and Natural Organic Matter</p> <p>Februriyana Pirade, <i>Delft University of Technology</i></p>	<p>C29 Evolution of Reactive Species and Their Contribution to the Removal of Pharmaceuticals during the Sunlight/Chlorine Process</p> <p>Yu-Hsiang Wang, <i>National Taiwan University</i></p>
10:50-11:20	Coffee Break		
	<p>Control of Micropollutants in Conventional Wastewater Treatments</p> <p>Chair: Prof. Ching-Hua Huang, <i>Georgia Institute of Technology</i></p>	<p>Occurrence and Treatments of PFAS in Water Environment</p> <p>Chair: Prof. Jheng-Jie Jiang, <i>Chung Yuan Christian University</i></p>	<p>Oxidation of micropollutants in water and wastewater</p> <p>Chair: Prof. Pei-Jen Chen, <i>National Taiwan University</i></p>
11:20-11:40	<p>A22 Optimization and Intensification of GAC Filtration to Remove Micropollutants and Facilitate Municipal Wastewater Reuse</p> <p>Romain Mailler, <i>Suez</i></p>	<p>B18 Targeted and Non-Targeted Monitoring of PFAS in Full-Scale Drinking Water, Wastewater and Leachate Treatment</p> <p>Naïke Noyon, <i>Suez CIRSEE</i></p>	<p>C30 Antimicrobial Resistance in Aquaculture Water: Effects of Non-Antibiotic Factors and Their Triggering Mechanisms</p> <p>Bongkotrat Suyamud, <i>National University of Singapore</i></p>
11:40-12:00	<p>A23 Micropollutants Biotransformation Under Different Redox Conditions in Conventional Activated Sludge Systems</p> <p>Tiago Martins, <i>FCT NOVA</i></p>	<p>B19 Pilot Assessment of Impacts of Ozonation and Advanced Oxidation Process on the Fate of Per- and Polyfluoroalkyl Substances (PFAS) and Precursors</p> <p>Xiaoyue Xin, <i>Georgia Institute of Technology</i></p>	<p>C31 Sulfite Is Not Only a Quencher: Micropollutant Degradation by the Co-Exposure of Chlor(am)ine with Sulfite</p> <p>Kun Wang, <i>The Hong Kong University of Science and Technology</i></p>
12:00-12:20	<p>A24 Mitigation of Antibiotic Resistance Genes and Organic Micropollutants from Hospital Wastewater Using Advanced Staged Bioreactors</p> <p>Ravi K. Chhetri, <i>Technical University of Denmark</i></p>	<p>B20 Degradation of C6 PFASs (PFHpA, PFHxS, and 6:2 FTS) During VUV Photolysis and VUV/Sulfite Process</p> <p>Taeyeon Kim, <i>Seoul National University</i></p>	<p>C32 Comparison of Electrochemical Oxidation of Ciprofloxacin in Different Aqueous Matrices</p> <p>Yu-Jung Liu, <i>Taipei Medical University</i></p>
12:20-14:00	Lunch and Poster Session		

	<p>Direct and Indirect Water Reuse from Perspectives of Micropollutants Chair: Prof. Thomas Ternes, <i>The German Federal Institute of Hydrology</i></p>	<p>Occurrence and Risk of Emerging Contaminants in Drinking Water Chair: Prof. Yu-Jung Liu, <i>Taipei Medical University</i></p>	<p>UV Oxidation of Micropollutants in Water Chair: Prof. Ming-Chun Lu, <i>National Chung Hsing University</i></p>
14:00-14:20	<p>A25 Development of a Mobile Water Supply System in Emergencies Situation for Contaminated Surface Waters with Alternative Disinfection Approaches Chotikoon Bunditboondee, <i>Chulalongkorn University</i></p>	<p>B21 Impact of Elevated Soil Temperatures on Disinfection Byproduct Dynamics and Coagulation Efficiency in Soil Runoff as a Drinking Water Source N. N. Arifianingsih, <i>National Taiwan University</i></p>	<p>C33 Vacuum UV for Abatement of Persistent Micropollutants: Laboratory and Pilot Studies Yicheng Wang, <i>Wetsus</i></p>
14:20-14:40	<p>A26 Efficient Micropollutant Removal from Effluents Using Continuous Hydrodynamic Cavitation Combined with Ozone Amit Kumar, <i>CLEWATEC, HZDR</i></p>	<p>B22 Modeling the Fate of the Transformation Products Generated by the Degradation of Carbamazepine in Various Water Treatment Processes Jeanne Trognon, <i>Toulouse INP-LGC</i></p>	<p>C34 Enhanced Radical Generation and Micropollutant Degradation by Far-UVC Photolysis of Persulfate in Water Jing Zhao, <i>The Hong Kong University of Science and Technology</i></p>
14:40-15:00	<p>A27 Effect of Surfactants on Inactivation Kinetics of <i>Bacillus Subtilis</i> Spores by Chlorine Tianqi Zhang, <i>EPFL</i></p>	<p>B23 Sustainable Mesoporous Activated Rice Husk Biochar for Stabilization of Hydrophobic Organic Carbons in River Environment: Sediment Slurry and Microcosm Studies Quynh Thi Ngoc Le, <i>Pusan National University</i></p>	<p>C35 Ultraviolet Treatments for Eliminating Organic Matters and Micropollutants in Water Wan-Ning Lee, <i>National Taiwan University</i></p>
15:00-15:20	<p>A28 Tradeoffs Between N-Nitrosamine Formation and Reactive Radical Formation in Water Systems Disinfected by Free Chlorine and Cyanuric Acid Combined Chia-Shun Chou, <i>National Yang Ming Chiao Tung University</i></p>	<p>B24 Microbial Community Diversity Determines Micropollutants Transformation Products Formation Alessia Ore, <i>Wageningen University</i></p>	<p>C36 Formation of Hydrogen Peroxide by VUV/UV Process in the Presence of Low Molecular Organic Contaminants Hyunsoo Yoon, <i>Seoul National University</i></p>
15:20-15:50	Coffee Break		
16:00-16:30	Closing Ceremony		

