



Assessment of the Exposure and Effects of Contaminants of Emerging Concern in Drinking and Wastewater Systems and Assays to Evaluate their Removal



SETAC SciCon

SETAC Europe 30th Annual Meeting

Open Science for Enhanced Global
Environmental Protection



Session Chairs



Susan T. Glassmeyer
U.S. Environmental
Protection Agency



Despo Fatta-Kassinos
University of Cyprus and
Nireas- International Water
Research Center



Damià Barceló
Catalan Institute for
Water Research



Viviane Yargeau
McGill University

Goals of Session

- Highlight research that uses integrated approaches to monitor the occurrence and the corresponding effects of CECs exposures in the environment.
- Session includes:
 - Experimental work at the laboratory, pilot, and field scales.
 - Modeling studies of the fate and removal of CECs.
 - Treatment studies include traditional, advanced, and passive drinking water and wastewater treatment technologies, including direct or de facto water reuse.
 - The use of chemical and biological measures to evaluate the environmentally-relevant effectiveness of those technologies and approaches specific to the removal of CECs and their associated bioactivities.

"First Session"

Assessing the impact of water reuse strategies using an integrated modelling approach	Riccardo Delli Compagni	Politecnico di Milano
The thin red line: The fate of the determinants of antibiotic resistance from the WWTP effluent to open waters and their impact on the natural microbial communities	Gianluca Corno	CNR - Water Research Institute
Removal of pesticides and priority organic pollutants during microalgae-based wastewater treatment	María Jesús García-Galán	Universitat Politècnica de Catalunya (UPC)
Biological responses in rainbow trout to wastewater treated by catalytic ozonation	Viviane Yargeau	McGill University
Novel insights into the toxicological and antibacterial perspectives of transformation products of antibiotics formed during UV-C/H ₂ O ₂ oxidation in ultrapure water and wastewater effluent matrices	Vasiliki G. Beretsou	Nireas-International Water Research Center, University of Cyprus
Effect-based identification of hazardous transformation products from antibiotics in water chlorination	Adrián Jaén Gil	Catalan Institute for Water Research

"Second Session"

Mixtures of Disinfection by-Products in Drinking Water, their Toxicity and Minimisation	Erin Losty	Essex University
Evaluation of novel and innovative water treatment technologies using a panel of effect-based CALUX bioassays	Harrie Besselink	BioDetection Systems BV
Still Haven't Found What You're Looking For? Integrated Interdisciplinary Analyses May Be the Solution.	Susan T. Glassmeyer	US Environmental Protection Agency
Occurrence of human-excreted contaminants within a decantation tank: respective impacts of historical consumption and sediment properties	Thomas Thiebault	École Pratique des Hautes Études, Université Paris Sciences et Lettres
From soil to mouth: Assessment of the effect of organic fertilizers on the rate of incorporation of Antibiotic Resistant Genes in <i>Lactuca sativa</i> and <i>Raphanus sativus</i> . Real-scale studies.	Claudia Sanz	Institute of Environmental Assessment and Water Research Spanish Research Council
Contaminants of emerging concern in irrigation water and fresh produce	Evyatar Ben Mordechay	The Hebrew University of Jerusalem

Beyond the Platform Recordings

- In addition to the 12 platform presentations, there are over 50 posters for viewing.
- Discussion Section Tuesday 05 May 15:00-15:45 UTC/ 11:00-11:45 EDT
- Please post your questions for any of the speakers or poster presenters, and we look forward to the live session.