



OWWA/WEAO Climate Change Fall Webinar - Session 2

WHAT EVERY WATER/WASTEWATER PROFESSIONAL SHOULD KNOW

ABOUT GHG EMISSIONS

WEDNESDAY, OCTOBER 6, 2021

12:00 PM - 2:00 PM

12:00 PM Opening Remarks

12:05 PM Emissions Beyond the Plant Gate: an Introduction to Life Cycle Assessment

I. Daniel Posen, PhD., Assistant Professor, University of Toronto

Daniel Posen is an assistant professor in Civil & Mineral Engineering at the University of Toronto. Drawing on academic training in Engineering & Public Policy, Economics, and Chemistry, Dr. Posen's research uses a mix of technical and economic modeling to supply quantitative, system-level analysis to support environmental decision making. His expertise is grounded in the tools of life cycle assessment and life cycle thinking, with a particular emphasis on improving methods for sustainability analysis and evaluating the environmental impact of energy and transportation technologies.



12:30 PM What We Know About Wastewater GHG Emissions, Maybe...

John Willis, PE, PhD., Vice President, Brown and Caldwell

John L. Willis has over 30 years of professional experience passionately attacking inefficiency and waste and developing innovative solutions for municipal utilities. He has served as principal investigator for WERF's Biogas Harvester, Barriers to Energy Efficiency, Barriers to Biogas Use, WaterWatts, Conveyance Asset Prediction System, and Undocumented Sources of Methane from Wastewater Treatment and Conveyance research; and EPA's Evaluation of CHP Technologies for Wastewater Treatment Facilities. He is currently Chair of WEF's Residuals and Biosolids Committee and a recent member of the Water Research Foundation's (WRF) Research Advisory Committee. He completed his Ph.D. on wastewater-treatment and -conveyance greenhouse gas emissions at The University of Queensland's Advanced Water Management Center in 2017.





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1:00 PM Biosolids Management and GHG Emissions: A Balancing Carbon Case Study

José Bicudo, PEng, PhD., National Technical Specialist, Water Resource Recovery, Associated Engineering

José Bicudo is a Senior Wastewater Engineer with Associated Engineering in Vancouver, BC. In addition to his role as a senior staff member in the BC operation, José has a cross-company role as a National Technical Specialist. He has 30 years of professional experience in academic, municipal and consulting roles. His project experience includes many aspects of wastewater management such as systems planning, facility design and operations, technology demonstration, biosolids management and resource recovery. José is a member of the WEF Residuals and Biosolids Committee and has served as Chair of the WEAO Residuals and Biosolids Committee for the 2018-2019.



1:30 PM Net-Zero Emissions by 2050; How Do We Get There?

Juan Sotes, Carbon & Co-Benefits Quantification Analyst,
The Atmospheric Fund

Juan Sotes is an environmental scientist with more than 10 years of experience in environmental research and management focused on climate change mitigation, in both the public and private sector. He is currently working as a GHG quantification analyst for The Atmospheric Fund, analyzing structural long-term impacts of climate solutions.



1:55 PM Closing Remarks



Registration can be found online at: <https://owwa.ca/events-list.html>

Registration:

- Members: \$29 (+HST)
- Non-Members: \$49 (+HST)
- Student Members: Free

HST number: # R122057458

·Questions regarding registration should be directed to the OWWA office at (416) 231-1555 or waterinfo@owwa.ca

·Attendance is by advance registration only

·Webinar participants may be eligible to receive CEUs upon attending. Please provide your WWOCS numbers on the registration form

·Cancellation requests must be made in writing and sent to the OWWA office via email. Telephone cancellations will not be accepted. All cancellations dated up to and including one week before the webinar will be refunded. Refunds will not be issued for cancellations received after this date.

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