



Disinfection Byproducts: Inorganic Chloramine

March 25, 2025 from 2 to 3 p.m. ET

**Optional Q&A session
from 3 to 3:15 p.m. ET**

A certificate of
attendance will
be offered for
this webinar

Advancing the Story of Inorganic Chloramine Decomposition and Identifying Chloronitramide Anion

This presentation will discuss research that has expanded our knowledge of inorganic chloramine decomposition chemistry. It will provide an updated understanding of 1) dichloramine decomposition and a revised pathway for N-nitrosodimethylamine (NDMA) formation in chloraminated drinking water; 2) how chloronitramide anion is a result of inherent chloramine instability; therefore, an external precursor chemical is not required for chloronitramide anion formation. The presentation will also discuss how chloronitramide anion was detected in 40 samples from 10 chloraminated drinking water systems in the United States, but not from ultrapure water or water treated without chlorine.

This work summarizes results from three recently published research articles: One in *Science* and two in *Environmental Science & Technology*.

Registration: us02web.zoom.us/webinar/register/2217368994586/WN_75-nSWyfQDKrbtsDE1_Mwg

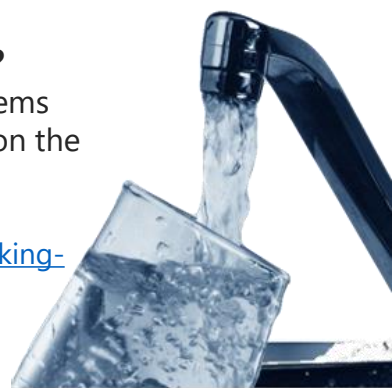
Who should attend?

The series is designed for state, tribal, and territory personnel responsible for drinking water regulations compliance and treatment technologies permitting. System operators, technical assistance providers, local government personnel, and others may also benefit.

Looking for more webinars?

EPA's Small Drinking Water Systems Webinar Series is typically held on the last Tuesday of the month from 2 to 3:30 p.m. ET.

epa.gov/water-research/small-drinking-water-systems-webinar-series



About the Presenters



Dave Wahman, Ph.D.

EPA Office of Research and Development

David G. Wahman is a registered Professional Engineer with over 30 years of experience. He received his B.S. in civil engineering from Rose-Hulman Institute of Technology, an MSE in environmental and water resources engineering, and a Ph.D. in civil engineering from the University of Texas at Austin, followed by a post-doctoral fellowship at

EPA before accepting a permanent position as a research environmental engineer. His research interests include disinfectant water chemistry, distribution system water quality, applying modeling and developing applications to understand drinking water treatment and distribution system issues, and per- and polyfluoroalkyl substances (PFAS).



Julian Fairey, Ph.D.

University of Arkansas

Julian Fairey is an associate professor in the Department of Civil Engineering at the University of Arkansas. He has an undergraduate degree from the University of Alberta and an M.S. and a Ph.D. from the University of Texas at Austin, all in civil and environmental engineering. His lab group aims to develop strategies to identify and curb

disinfection byproducts in drinking water, sampling devices for PFAS quantitation at trace levels, and fluorescence sensor systems for early detection of nitrification in drinking water distribution systems.

