

David G. Wahman, Research Environmental Engineer in EPA's National Risk Management Research Laboratory

Water Systems Division

[Mailing Address](#)

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Areas of Expertise:

- Disinfectant water chemistry
- Distribution system water quality
- Distribution system nitrification
- Applying molecular based tools, microelectrodes, and modeling to understand drinking water treatment and distribution system issues

Select Publications:

Wahman, D. G. (2018). [Web-Based Applications to Simulate Drinking Water Inorganic Chloramine Chemistry](#). Journal American Water Works Association. 110(11): E43-E61.

Wahman, D. G. (2018). [First Acid Ionization Constant of the Drinking Water Relevant Chemical Cyanuric Acid from 5 to 35 °C](#). Environmental Science: Water Research & Technology. 4(10): 1522-1530.

Wahman, D. G. (2018). [Chlorinated Cyanurates: Review of Water Chemistry and Associated Drinking Water Implications](#). Journal American Water Works Association. 110(9): E1-E15.

Wahman, D. G., Speitel, G. E. Jr., and Katz, L. E. (2017). [Bromamine decomposition revisited: A holistic approach for analyzing acid and base catalysis kinetics](#). Environmental Science & Technology. 51(22):13205-13215.

Wahman, D. G., Maestre, J. P., and Speitel, G. E. Jr. (2016). [Monochloramine Cometabolism by Drinking Water Relevant Nitrifying Biofilm](#). Journal American Water Works Association. 108(7): E362-E373.

Wahman, D. G. and Pressman, J. G. (2015). [Distribution System Residuals – Is “Detectable” Still Acceptable for Chloramines?](#) Journal American Water Works Association 107(8): 53-63.

View more research publications by [David Wahman](#).

Education:

- PhD., The University of Texas at Austin, Texas; Civil Engineering, 2006
- M.S.E., The University of Texas at Austin, Texas; Environmental and Water Resources Engineering, 2003
- B.S., Rose-Hulman Institute of Technology, Terre Haute, Indiana; Civil Engineering, 1996

Professional Experience:

Committees and Affiliations

- American Water Works Association (AWWA) Biological Drinking Water Treatment Committee Member
- AWWA Distribution Research Committee Member
- AWWA Distribution System Water Quality Committee Member
- AWWA Water Quality & Technology Division Trustee
- Thesis/Dissertation Committees (multiple), University of Cincinnati
- Technical Review Committee and Project Advisory Committee for Biological Nitrate Removal Pre-Treatment System for a Drinking Water Application (WRF Project# 4202)
- Technical Review Committee and Project Advisory Committee for Investigating Coagulant Aid Alternatives to polyDADMAC Polymers (WRF Project #4452)
- Professional Engineer, Indiana, 2001

Awards and Honors

- EPA National Honor Award: Gold Medal for Exceptional Service: Flint Distribution System Chlorine Monitoring Team, 2016
- ORD Honor Award – Six Year Review of Drinking Water Standards Support Team, 2016
- EPA Scientific and Technological Achievement Award (STAA), Level II: Research on Novel Ammonia–Oxidizing Bacteria and Monochloramine Interactions to Advance Chloramine Chemistry, 2015
- EPA STAA Level II: Development and Application of a Monochloramine Microelectrode for Biofilm Monitoring in Chloraminated Water System, 2012
- EPA STAA Honorable Mention: Determination of Monochloramine Disinfection Kinetics Applicable to Distribution System Ammonia–Oxidizing Bacteria, 2012

Patents

Lee, W. H., **Wahman**, D. G., and Pressman, J. G. Solid State Amperometric Chloramine Sensor (US9586814 B2). Washington, DC: U.S. Patent and Trademark Office.