

Oct 3rd, 4:00 PM - 5:00 PM

Applied Research at American Water – Turning Ideas into Applications

Orren D. Schneider
American Water

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The MSU Sustainability Seminar Series Presents:

Applied Research at American Water – Turning Ideas into Applications

WHEN: October 3, 4:00 pm

WHERE: CELS 120 lecture hall

Orren D. Schneider, Ph.D., P.E.
American Water



Dr. Schneider joined American Water in March 2005 where he serves as Manager, Water Technology. He is involved with research leading to optimization of water treatment and distribution system operations. Dr. Schneider is a resource for American Water and is routinely called upon to provide guidance and ideas for troubleshooting of existing processes and evaluating and implementing new technologies.

Dr. Schneider has over 30 years of experience in the water industry. He received his BS in Chemical Engineering from Cornell University, his MS in Environmental Engineering and his PhD in Civil Engineering from the University of Massachusetts at Amherst.

Dr. Schneider will present an overview of American Water's Research and Development program. American Water is the largest investor-owned utility in the US and its research program has been investigating issues critical to the water industry for over 30 years. The R&D team, based in New Jersey, is comprised of more than 15 engineers, chemists, and microbiologists and is currently involved with research related to such diverse topics as biofiltration, management of *Legionella*, advanced oxidation of trace organic compounds, remote sensing for algae detection as part of multi-layer early warning systems for mitigation of harmful algae blooms, remote sensing for water leak detection, evaluation of particle (and pathogen) removal in beach wells for desalination plants and other topics. Beyond a general overview of the research program, two specific case studies – biofiltration and ultrasonic algae control will be presented.