

Resume

Charlotte Smith has 25 years of experience in research and drinking water quality issues. An internationally recognized expert, Charlotte Smith was recently appointed to the National Academy of Sciences - Committee on Distribution System Water Quality.

Ms. Smith has developed Chloramine Action Plans and Nitrification Control Plans for many utilities including systems in California, Florida and Maine. Her specialty is comprehensive assessments of the root causes of nitrification in chloraminated systems, and recommending practical solutions.

Charlotte Smith is active on AWWA technical advisory workgroups, which recommend the industry's policy regarding regulations during the development phase. She has received several contracts from the Association for development of support documents or review comments on a variety of regulatory initiatives including the Distribution System Rule White Papers and Initial Distribution System Evaluation Guidance Manual. She was the Editor of AWWA Distribution System Assessment Workbook, which was the basis for the new AWWA G-200 Standard.

Prior to establishing Charlotte Smith & Associates, Inc. in 1994, Ms. Smith was Director of Water Quality at General Waterworks Corp., where she acted as advisor to 35 drinking water utilities in 15 states. Responsibilities included the evaluation of treatment regimes and identification and resolution of water quality problems. She developed the applied research program, and acted as liaison to the parent company (Lyonnaise des Eaux) for water quality projects.

While at New York she was designated by the Commissioner of DEP to act as "City's Liaison" for the 3 MGD demonstration filtration plant. Responsibilities included coordination of water quality program with consultants to the City, preparation of materials and participation at Community Board meetings. She initiated special water quality investigations including corrosion control, and disinfection by-product minimization. At DEP Ms. Smith evaluated public health and environmental implications of proposed changes to the City's treatment regimes, including the potential use of alum and chloramine. She met with USEPA and Congressional representatives on behalf of the City regarding the Surface Water Treatment Rule, Coliform Rule, and Lead and Copper Rule and wrote technical support documents for the City's comments on those and other water quality regulations.

Charlotte Smith has been involved in several AwwaRF projects including the following:

- ❖ Co-Principal Investigator: A Rapid Method for the Enumeration of Ammonia Oxidizing Bacteria as an Early Warning for Nitrification.
- ❖ Co-Principal Investigator: Water Quality Modeling of Treated Water Storage Facilities.
- ❖ Technical Advisor: Methodologies for Assessing and Improving Water Quality Sampling Programs in Drinking Water Distribution Systems

Prior to entering the drinking water profession in 1985, Ms. Smith conducted research in molecular immunology at the University of Michigan and Columbia University. She was an Adjunct Professor at the City University of New York. She has also given numerous presentations at conferences, teleconferences and webcasts, and has been a guest lecturer internationally on a variety of water quality topics.

Charlotte D. Smith

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Academic Credentials:

- MA - Community Health, City University of New York, 1987
- BS - Microbiology, The University of Michigan 1979

Other Credentials:

- Distribution System Operator Certification
- State of California

Employment Record:

- 1994-Present - Charlotte Smith & Associates, Inc.
- 1991-1994 - General Water Works Corporation
- 1985-1991 - New York City DEP
- 1983-1985 - Columbia University, Dept of Microbiology
- 1979-1983 - The University of Michigan, Dept of Microbiology

Principal Areas of Expertise:

- Distribution System Water Quality
- Regulatory Compliance Planning

Professional Memberships:

- National Academy of Sciences
Water Supply Distribution Systems: Assessing and Reducing Risks
- American Water Works Association
Past Chair, Distribution System Water Quality Committee
Member, Water For People
- AWWA Research Foundation
Member of the Research Advisory Council
Member of several project advisory committees

Publications/Presentations:

- Author of more than 100 technical presentations, papers and AwwaRF reports.

Awards:

- American Water Works Association:
2001 Water Quality Division: Golden Spigot
2003 California Nevada Section: Chair's Award
2004 Journal AWWA - Best Paper