

Ann Keeley, Supervisory Microbiologist in EPA's National Risk Management Research Laboratory

Groundwater, Watershed, and Ecosystem Restoration Division

[Mailing Address](#)

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Areas of Expertise:

- Groundwater and ecosystems restoration projects dealing with complex hydrology and biogeochemistry
- Bioremediation processes
- Molecular biological techniques
- Complex environmental chemical and biological laboratory analyses procedures
- Ecosystem administration protection and restoration decision support criteria
- Management and leadership responsibility for large-scale ground water research programs

Select Publications:

Singh, H.V., B.R. Faulkner, A. **Keeley**, J. Freudenthal, K.J. Forshay. [Floodplain restoration increases hyporheic flow in the Yakima River watershed, Washington](#). *Ecological Engineering* 116:110-120. 2018.

Hu, S. and Ann **Keeley**. [Sustainable Urban Waters: Opportunities to Integrate Environmental Protection in Multi-objective Projects](#). U.S. Environmental Protection Agency, Washington, D.C., EPA/600/R-15/305. 2015.

Pivetz, B., Ann **Keeley**, E. Weber, Jim Weaver, J. Wilson, and Cissy Ma. [Ground Water Issue Paper: Synthesis Report on State of Understanding of Chlorinated Solvent Transformation](#). U.S. Environmental Protection Agency, Washington, D.C., EPA/600/R-13/237. 2014.

Liang, Z. and Ann **Keeley**. [Filtration recovery of extracellular DNA from environmental water samples](#). *Environmental Science & Technology* 47(16):9324-9331. 2013.

Keeley, Ann and Q. Wu. [Soil and Water – What is Detectable through Microbiological Sample Preparation Techniques](#). U.S. Environmental Protection Agency, Washington, D.C., EPA/600/F-10/021. 2010.

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Education:

- Ph.D., Mississippi State University, Starkville, MS; Applied & Environmental Microbiology, 1992
- M.S., Mississippi State University, Starkville, MS; Applied & Environmental Microbiology, 1989
- B.S., Institute of Paramedical Sciences, Tehran, Iran; Health Sciences, 1976

Professional Experience:

- Acting Division Director of the Groundwater, Watershed, and Ecosystem Restoration Division (present)

- Associate Division Director, GWERD (2016-2018)
- Chief, Ecosystem and Subsurface Protection Branch, GWERD (2011-2016)
- Mentor and research advisor for undergraduate students under environmental research apprenticeship program; McNair Scholars Program students; and National Research Council Program participants.

Workgroup and Project Leads

- Task Lead for Chesapeake Bay Project in Region 3 under the Safe & Sustainable Water Resources Program
- Task Lead and Principal Investigator for Decision support tools to guide ecosystem management and restoration to reduce watershed N and P pollution (SSWR and RARE projects)
- Active membership of the GWERD's Groundwater Technology Support Center (TSC), serving as an expert in bioremediation processes.
- Advisor to team developing a study plan to determine the sustainable yield of the Arbuckle-Simpson Aquifer. This led to a five-year, four million dollars study carried out by the OWRB, Bureau of Reclamation, Corps of Engineers, Oklahoma State University, and University of Oklahoma (2001-2010)
- Served as EPA subject matter expert/advisor to the Oklahoma Secretary of Environment on issues relating to water resources in the State of Oklahoma, specially impact of commercial animal feeding operations on groundwater quality.
- Advisor to East Central University (ECU) in developing a master's degree program in water policy and management (2015-present)
- Advisor to the Chickasaw Nation and ECU in developing "The OKA' Institute," a management, research, and outreach initiative for water (2015-present)

Committees and Memberships

- Water Research Advisory Board Member, Oklahoma Water Resources Center, Oklahoma State University (2017-present)
- Advisory Board at the Pontotoc County Technology Center (2013-present)
- Founding member of the Ada, OK, Water Resources Board (1999-present)
- American Society for Microbiology (1991-present)
- Society for Industrial Microbiology & Biotechnology (1989-present)

Select Honors and Awards

- Certificate of Mastery for All Requirements for the Leadership for a Democratic Society, Federal Executive Institute, Office of Personnel Management, 2017
- EPA ORD Bronze Medal, Outreach to the Chickasaw Nation, State of Oklahoma, and regional university to enhance EPA stature and support cooperative research in the state and region, 2017
- Environmental Science and Technology (American Chemical Society), Outstanding Reviewer Award, 2012
- EPA National Association of Remedial Project Managers (NARPM) Outstanding Service Award for teaching at the Annual Training Program, 2011, 2010
- ORD Outstanding Technical Assistance to the Regions and Program Offices Award, Groundwater Technical Support, 2009
- EPA Special Achievement Award for Team Work: Member of the organizing committee and session chair of Biology and Biochemistry at the Monitored natural attenuation of PAHs Workshop, 2009