

Curriculum Vitae for William M. Alley

Education

Colorado School of Mines, B.S., 1974, Geological Engineering

Stanford University, M.S., 1976, Hydrogeology

Johns Hopkins University, Ph.D., 1984, Geography and Environmental Engineering

Job Experience

National Ground Water Association (NGWA)

Director of Science and Technology, 2012-present.

U.S. Geological Survey (USGS)

Chief, Office of Groundwater, 1993-2012

Coordinator, Regional Aquifer-System Analysis Program, 1992-1993

Research Hydrologist, National Research Program, 1990-1992

Groundwater Coordinator, National Water-Quality Assessment Program, 1986-90

Hydrologist, 1976-1986

Radiochem Laboratory Technician, Unsaturated Zone Research Laboratory, 1975

Professional Societies

American Association for the Advancement of Science

American Geophysical Union

Geological Society of America

International Association of Hydrogeologists

National Ground Water Association

Groundwater Resources Association of California

Professional Awards and Honors

Member, USEPA National Drinking Water Advisory Council, 2014-present

Lifetime Member, National Ground Water Association, 2012

Groundwater Resources Association of CA, David Keith Todd Distinguished Lecturer, 2012

Fellow, Geological Society of America, 2009

Groundwater Foundation, E. Benjamin Nelson Government Service Award, 2007

Meritorious Presidential Rank Award, 2006

Shoemaker Award for Lifetime Achievement in Communication, 2006

Department of Interior, Distinguished Service Award, 2002

NGWA, John Hem Excellence in Science and Engineering Award, 2001

USGS, Meritorious Service Award, 1991

USGS, Superior Service Award, 1988

Colorado School of Mines, Outstanding Geology Student, 1974

Colorado School of Mines, Amax Award, 1974

Activities with Scientific Societies

National Ground Water Association:

Board of Directors, Scientists and Engineers Division, 2006-2009

Co-chair, 2007 Ground Water Summit

Associate Editor, *Ground Water*, 1998-2005

International Association of Hydrogeologists:

Board of Directors, U.S. National Chapter, 2009-2012

Associate Editor, *Hydrogeology Journal*, 2007-2011

U.S. National Research Council:

Member, Committee on Assessing Ground Water Vulnerability, 1990-93

Presentations

Invited Lectures at Universities:

Stanford University 2012

California State University, 2010, 2012

University of California, Berkeley, 2007

George Washington Law School, 1999

College of William and Mary, 1996

Harvard University, 1984

University of Colorado, 1978, 2013

University of Wisconsin, 1977

Invited and Keynote Talks (past 4 years)

2016 Western South Dakota Hydrology Meeting, 2016

Ontario Groundwater Association, 2016

9th International Symposium on Managed Aquifer Recharge, 2016

Toward Sustainable Groundwater in Agriculture, 2016

Geological Society of America, Annual Meeting, 2016

National Academy of Engineering, Symposium on Groundwater Depletion, 2016

American Geological Institute, Critical Issues Forum, 2016

AWRA National Leadership Institute Workshop for State Officials, 2016

Groundwater Foundation, 2015

Irrigation Association, 2015

International Association of Hydrogeologists, 2015

Danish Academy of Technical Sciences, 2015

Midwest Groundwater Conference, 2014

American Water Resources Association Annual Meeting, 2013

Universities Council on Water Resources, 2013, 2015

USGS Western Region Colloquium, 2013

AZ Water Resources Research Center Annual Conference 2013

Ground Water Protection Council, 2014

Lawrence Berkeley National Laboratory, 2013

American Geophysical Union, 2013

Congressional Briefings on Capitol Hill

Ground-Water Resources for the Future, 2001

The Future of Ground Water in the Southwest, 2000

Water Quality and Drinking Water Protection, 1999

Groundwater: The Neglected Resource, 1994

Interactions of Ground Water and Surface Water, 1993

Reports to Congress

U.S.-Mexico Transboundary Aquifer Assessment Program, 2013
Progress toward Establishing a National Assessment of Water Availability, 2013
Concepts for National Assessment of Water Availability and Use, 2002
Strategic directions for the USGS Ground-Water Resources Program, 1998

International Experience

U.S. Coordinator, UNESCO ISARM (Internationally Shared Aquifer Resources Management) Programme, 2010-2012
Advisor to State Department on cooperative water programs
--Israeli and Palestinian Water Authorities, 2010-2012
--Turkish and Greek Cyprus, 1997-1999
Invited presenter, World Water Forum, Istanbul, Turkey, 2009
Instructor: Regional Assessment of Ground Water Quality, Italian National Research Council, Perugia, Italy, (4-week course) 1990, 1991
UNESCO, Rapporteur for IHP-III Project 6.3, "Methods for distinguishing between climatic variability and human effects on hydrological time series," 1984-88

Selected Publications (Full list available upon request)

Alley, W.M., ed., 1993, Regional Ground-Water Quality, Van Nostrand Reinhold, New York, New York.

Winter, T.C., Harvey, J.W., Franke, O.L., and Alley, W.M., 1998, Ground water and surface water—A single resource, U.S. Geological Survey Circular 1139.

Alley, W.M., Reilly, T.E., and Franke, O.L., 1999, Sustainability of ground-water resources, U.S. Geological Survey Circular 1186.

Alley, W.M., Healy, R.W., LaBaugh, J.W., and Reilly, T.E., 2002, Flow and storage in groundwater systems: *Science*, v. 296, p. 1985-1990.

Alley, W.M., and Leake, S.A., 2004, The journey from safe yield to sustainability: *Ground Water*, v. 42, no. 1, p. 12-16.

Alley, W.M., 2006, Tracking U.S. groundwater: Reserves for the future? *Environment*, v. 48, no. 3, p. 10-25.

Reilly, T.E., Dennehy, K.F., Alley, W.M., and Cunningham, W.L., 2008, Ground-water availability in the United States. U.S. Geological Survey Circular 1323.

Gleeson, T., VanderSteen, J., Sophocleous, M.A., Taniguchi, M., Alley, W.M., Allen, D.M., and Zhou, Y., 2010, Groundwater sustainability strategies. *Nature Geoscience*, v. 3, p. 378-379.

Alley, W.M. and Alley, R., 2013, *Too Hot to Touch: The Problem of High-Level Nuclear Waste*. New York, NY: Cambridge University Press.

Alley, W.M. and Alley, R., 2014, The growing problem of stranded used nuclear fuel. *Environmental Science & Technology* 48:2091-2096.

Alley, W.M. and Alley, R., 2017, *High and Dry: Meeting the Challenges of the World's Growing Dependence on Groundwater*. New Haven, CT: Yale University Press.