

J. Barry Maynard

Professor Emeritus of Geology

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EDUCATION

B.S., Duke University, 1968

Ph.D., Harvard University, 1972

EXPERIENCE

Assistant Professor, University of Cincinnati, 1972-1975

Associate Professor, University of Cincinnati, 1975-1985

Professor, University of Cincinnati, 1985-2015

Emeritus Professor, 2015-

Head of Department, Geology 1985-1990

Visiting Professor, Memorial University, Newfoundland, 1979

AWARDS

National Associate of National Academy of Sciences, 2002

PROFESSIONAL AFFILIATIONS

National Research Council of National Academy of Sciences

Associateship Review Committee (1989-2005); Chair, Earth Sciences Panel (1999-2005). Member, Committee Advisory to the U.S. Geological Survey (1987- 1990)

State of Ohio

Ohio Geological Survey Advisory Board (1990-1996)

Ohio Commission on Siting Criteria for Low-level Radioactive Waste Repository (1992-1994)

Vice-chair, Board of Directors, Ohio Low-level Radioactive Waste Repository Siting Authority (1995-1997)

City of Cincinnati

Cincinnati Water Works Advisory Board (1998-2016)

Professional Societies

Fellow, Geological Society of America; Chair Annual Meeting (1992)

Fellow, Society of Economic Geologists; Associate Editor Economic Geology (1989-1993); Chair, Medals Committee (1994)

GRADUATE STUDENTS SUPERVISED

9 PhD, 26 MS

RECENT GRANTS (last 10 years)

Water Research Foundation 2013

Project 4415: Assessing Risk of Lead and Copper Consumption from Drinking Water
(with Abigail Cantor, Process Research Solutions)

Water Research Foundation 2012

Project 4409: Lead and Copper Rule Revision Data Gaps
(with Abigail Cantor, Process Research Solutions)

Water Research Foundation 2011

Project 4286: Distribution System Water Quality Control Demonstration
(with Abigail Cantor, Process Research Solutions)

American Water Works Association Research Foundation 2008

Project 3018: Contribution of Service Line and Plumbing Fixtures to Lead and
Copper Rule Compliance Issues (with HDRC)

PUBLICATIONS

Books

Kuleshov, V., 2016, *Isotope Geochemistry: The Origin and Formation of Manganese Rocks and Ores*, J. Barry Maynard, ed., Paperback ISBN: 9780128031650; eBook ISBN: 780128031865, Elsevier, 440 pp.

Potter, P.E., Maynard, J.B., and DePetris, P., 2005, *Mud and Mudstones: Heidelberg*, Springer-Verlag, 297 pp. ISBN: 978-3-540-22157-9 (Print) 978-3-540-27082-9 (Online)

Gregor, B., MacKenzie, F.D., Garrels, R.M. and Maynard, J.B., eds., 1988, *Chemical Cycles in the History of the Earth: New York*, John Wiley & Sons, 316 pp.

Maynard, J.B., 1983, *Geochemistry of Sedimentary Ore Deposits: New York*, Springer-Verlag, 284 p. ISBN: 978-1-4613-9495-2 (Print) 978-1-4613-9493-8 (Online)

Potter, P.E., Maynard, J.B., and Pryor, W.A., 1980, *Sedimentology of Shale: New York*, Springer-Verlag, 306 pp.

Peer-reviewed articles and reports, related to project, since 2000

Maynard, J.B., Bowers, M.T., and Potter, P.E., 2016, *What Do You Mean Moisture is 110%! Twenty Roadblocks to Communicating Engineering Geology. The Professional Geologist*, v. 53, no. 3, p. 38-42.

Gerke, T.L., Little, B.J., and Maynard, J.B., 2015, *Manganese deposition in drinking water distribution systems: Science of The Total Environment* 541:184-193. · DOI: 10.1016/j.scitotenv.2015.09.054

Gerke, T.L., Little, B.J., Luxton, T.P., Maynard, J.B., and Szabo, J.G., 2014, Strontium adsorption and desorption reactions in model drinking water distribution systems: *Aqua* 63:449- 460 · DOI: 10.2166/aqua.2014.075

Maynard, J.B., 2014, Chapter 15: Manganiferous sediments, rocks, and ores, in MacKenzie, F.T., ed., *Treatise of Geochemistry 2nd edition. Volume 9, Sediments, Diagenesis, and Sedimentary Rocks*: Amsterdam, Elsevier, p. 327-349.

Cantor, A.F. Maynard, J.B., Hart, P., Kapellusch, A.M., Pilgrim, J. and Heffer, S.M., 2013, ASSESSING RISK OF LEAD AND COPPER CONSUMPTION FROM DRINKING WATER: Denver CO, Water Research Foundation, 112 pp
<http://www.waterrf.org/Pages/Projects.aspx?PID=4415>

Gerke, Tammie L., Brenda J. Little, Todd P. Luxton, Kirk G. Scheckel, and J. Barry Maynard, 2013, "Strontium concentrations in corrosion products from residential drinking water distribution systems." *Environ. Sci. Technol.*, 47 (10), pp 5171–5177. DOI: 10.1021/es4000609. Publication Date (Web): April 22, 2013

Ripley, Edward M.; Li, Chusi; Moore, Craig H.; Elswick, Erika R.; Maynard, J. Barry ; Paul, Rick L.; Sylvester, Paul; Seo, Jun Hun; Shimizu, Nobomichi, 2011, Analytical methods for sulfur determination in glasses, rocks, minerals and fluid inclusions. *Reviews in Mineralogy and Geochemistry* Vol. 73, no. 1, p. 9-39. Washington, DC: Mineralogical Society of America and Geochemical Society.
doi:10.2138/rmg.2011.73.2

Gerke, T.L., Scheckel, K.G., Maynard, J.B., 2010, Speciation and distribution of vanadium in drinking water iron pipe corrosion by-products, *Science of The Total Environment*, Volume 408 -- Special Section: Integrating Water and Agricultural Management Under Climate Change – p. 5845-5853, ISSN 0048-9697, DOI: 10.1016/j.scitotenv.2010.08.036.
(<http://www.sciencedirect.com/science/article/B6V78-512KGG3-/2/48db89a2ce48beeb790a7700f7ef77e9>)

Gerke, T.L., Maynard, J.B., Schock, M.R., and Lytle, D., 2008, Physiochemical characterization of five iron tubercles from a single drinking water distribution system: Possible new insights on their formation and growth: *Corrosion Science*, v. 50, p. 2030-2039. DOI: 10.1016/j.corsci.2008.05.005

Sandvig, A., Kwan, P., Kirmeyer, G., Maynard, B., Mast, D., Trussell, R., Cantor, A., Prescott, A., 2008, Contribution of Service Line and Plumbing Fixtures to Lead and Copper Rule Compliance Issues. American Water Works Association Research Foundation, Denver, Colorado, 91 pp w CD-ROM.

Maynard, J. Barry, David Mast, P. E. Pierre Kwan, Jim Dunn, Brian Hoyt, and P. E. Yone Akagi, 2008, Kinetics of Lead Release from Brass Water Meters and Faucets. In *Proceedings American Water Works Association, Water Quality Technology Conference, Cincinnati OH*.

Lytle, D., Gerke, T.L., Maynard, J.B., 2005, Geochemistry of sulfur in iron corrosion scales found in drinking water distribution systems: Role of sulfate reducing bacteria, *Journal American Water Works Association*, v. 97, p. 109-120.

Turer, D., and Maynard, J.B., 2003, Heavy Metal Contamination in Highway Soils. Comparison of Corpus Christi, TX and Cincinnati, OH shows Organic Matter is Key to Mobility: *Clean Technologies and Environmental Policy*, v. 4, p. 235-245. DOI: 10.1007/s10098-002-0159-6

Meng, S.X., and Maynard, J.B., 2001, Use of statistical analysis to formulate conceptual models of geochemical behavior: water chemical data from the Botucatu aquifer in Sao Paulo state, Brazil: *Journal of Hydrology*, v. 250, p. 78-97. DOI: 10.1016/S0022-1694(01)00423-1

Turer, D., Maynard, J.B., and Sansalone, J.J., 2001, Heavy metal contamination in soils of urban highways: Comparison between runoff and soil concentrations at Cincinnati, Ohio: *Water, Air and Soil Pollution*, v. 132, p. 293-314. DOI 10.1023/A:1013290130089