

ALLAN R. BATTERMAN

Quality Assurance Manager/Physical Scientist

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Education:

BS Biology, Bemidji State College, Bemidji Minnesota, 1971

Employment:

1989 – Present Environmental Scientist/Physical Scientist / Quality Assurance Manager, U.S. EPA, Duluth, MN

1979 – 1989 Environmental Scientist, U.S. EPA, Duluth, MN

1973 – 1979 Biologist, U.S. EPA, Las Vegas, NV

1971 – 1973 Biological Technician, U.S. EPA, Duluth, MN

Research / Administrative Interests and Skills:

Quality Assurance Programs in Research

Contract and Interagency Agreement Management

Public Outreach Activities

Selected Appointments/Honors/Major Awards:

EPA Bronze Medal for outstanding contribution to the organization and implementation of the Agency's Display at the 1989 National Boy Scout Jamboree

Scientific and Technological Achievement Award for 1983 in recognition of significant scientific accomplishments for the determination of mineral fibers in fish

Selected Key Publications:

Peer-Reviewed Journals:

Batterman, A.R., S.L. Batterman, K.M. Jensen, and F.W. Whiteman. 2000. Data quality objectives in environmental research planning. *Quality Assurance: Good Practice, Regulations and Law*, 7:181-194.

Walker, Mary K., P.M. Cook, A.R. Batterman, Brian Butterworth, Christine Berini, John Libal, Lawrence Hufnagle and Richard E. Peterson. 1994. Translocation of 2,3,7,8-Tetrachlorodibenzo-p-dioxin from Adult Female Lake Trout (*Salvelinus namaycush*) to Oocytes: Effects on Early Life Stage Development and Sac Fry Survival. *Can J. Fish. Aquat. Sci.* Vol 51:1410-1419.

Batterman, A.R. and P.M. Cook. 1981. Determination of Mineral Fiber Concentration in Fish Tissues. *Can J. Fish. Aquat. Sci.* 38:952-959.

Drummond, R.A., G.F. Olson, and A.R. Batterman. 1978. Cough Response and Uptake of Mercury by Brook Trout, *Salvelinus fontinalis*, exposed to mercuric compounds at different hydrogen-ion concentrations. *Trans. Am. Fish. Soc.* 103:244-249.

EPA Reports:

Cook, P.M., D.W. Kuehl, A.R. Batterman, D.B. Lothenbach, B.C. Butterworth and E. Durhan. 1986 Bioaccumulation of TCDD isomers by two species of Freshwater Fish: Preliminary Report. U.S. Environmental Protection Agency, Duluth, MN. (Internal Report).

Batterman, A.R. and P.M. Cook. 1983 Accumulation of asbestos fibers and analogous mineral fibers in Fish Tissues. Program Element/LOP No. A32B1A, Decision Unit B1155(c).

McFarlane, J.C., A.R. Batterman and K. Brown. 1978 Plutonium uptake by plants grown in solution culture. U.S. Environmental Protection Agency, Las Vegas, NV. EPA 600/3-78-081.

Kuehl, D.W., P.M. Cook, A.R. Batterman and B.C. Butterworth. Bioavailability of Polychlorinated dibenzo-p-dioxin and dibenzofurans from municipal incinerator fly ash to carp. U.S. Environmental Protection Agency, Duluth, Mn. (In-house Report).

Invited Presentations:

Batterman, A.R. 2000. DQO Process, Nineteenth Annual National Meeting on Managing Quality Systems for Environmental Programs, Albuquerque, N.M., April 3-7, 2000

- Batterman, A.R. 1999. Quality assurance reviews at the National Health and Environmental Effects Research Laboratory, Mid-continent Ecology Division - Duluth, Eighteenth Annual National Meeting on Managing Quality Systems for Environmental Programs, Cincinnati, Ohio, April 13-16, 1999
- Batterman, A.R., P.M. Cook, D.B. Lothenbach, and K.B. Lodge 1989. Development of a System for a Laboratory Bioaccumulation Study Using Lake Trout Exposed to TCDD Contaminated Natural Lake Sediments. Presented: American Fisheries Society Meeting, February 23-24, 1989, New Ulm, MN.
- Batterman, A.R., P.M. Cook, D.B. Lothenbach, and K.B. Lodge. 1988. Laboratory Determination of Relative Contributions of Water, Sediment, and Food Chain Routes of Uptake for 2,3,7,8-TCDD Bioaccumulation by Lake Trout in Lake Ontario. Dioxin '88, Umea, Sweden.

Non Peer-Reviewed Journals:

- Batterman, A.R., P.M. Cook, K.B. Lodge, D.B. Lothenbach, and B.C. Butterworth. 1989. Methodology used for a Laboratory Determination of Relative Contributions of Water, Sediment and Food Chain Routes of Uptake for 2,3,7,8-TCDD Bioaccumulation by lake Trout in lake Ontario. Chemosphere 19:1-6