

JOHN C. FILKINS

Biologist

734-692-7614

filkins.john@epa.gov

Education:

B.A., Biology, Oakland University, Rochester, MI, 1971

M.S., Botany, Ohio State University, Columbus, OH, 1974

Employment:

1984-Present Biologist, U.S. EPA, Grosse Ile, MI

1973-1984 Biologist / Research Supervisor, Cranbrook Institute of Science at the U.S. EPA Lab, Grosse Ile, MI

Research Interests and Skills:

Present interest includes the measurement of methyl mercury in biota and sediments, focusing on the effects of mercury on fish-eating birds. This research supports the development of physiologically-based toxicokinetic models of the effects of methyl mercury on Avian reproduction and juvenile development. Other research interests include the development of acoustic models and instrumentation to identify and map contaminated sediments in harbors, rivers and Great Lakes near shore zones.

Selected Publications:

Caulfield, D.D. and J.C. Filkins. 1999. Acoustic techniques for the mapping of the distribution of contaminated sediments. *Northeastern Geology and Environmental Sciences*, 21(½):130-135.

Caulfield, D.D. and J.C. Filkins. 1997. *Micro-survey-acoustic Core and Physical Core Inter-relations with Spatial Variations, Trenton Channel of the Detroit River, Volume 1. Field Activities and Calibration Documentation*. EPA/905/R-99/003. U.S. Army Engineers Waterway Experimental Station and U.S. EPA/Great Lakes National Program Office, Grosse Ile, MI.

Caulfield, D.D. and J.C. Filkins. 1997. *Micro-survey-acoustic Core and Physical Core Inter-relations with Spatial Variations, Trenton Channel of the Detroit River, Volume 2. Core Analysis and Summary Findings*. EPA/905/R-99/003. U.S. Army Engineers Waterway Experimental Station and U.S. EPA/Great Lakes National Program Office, Grosse Ile, MI.

Caulfield, D.D. and J.C. Filkins. 1997. *Micro-survey-acoustic Core and Physical Core Inter-relations with Spatial Variations, Trenton Channel of the Detroit River, Volume 3. Normal and Contaminated Sediment Distribution Maps*. EPA/905/R-99/003. U.S. Army Engineers Waterway Experimental Station and U.S. EPA/Great Lakes National Program Office, Grosse Ile, MI.

Caulfield, D.D., J.C. Filkins and R. McGee. 1996. Calibration and multiple sound sources in marine geotechnical pollution surveys in rivers. In *Proceedings of Oceans 96 MTS/EEE Conference*.

Smith, V.E., J.E. Rathbun, and J.C. Filkins. 1992. Sampling, Characterizing, and Mapping Contaminated Sediments in River Harbors. *Hazard. Mater. Control*, 5(5):22-28.

Ross, P.E., G.A. Burton, Jr., E.A. Crecelius, J.C. Filkins, J.P. Giesy, Jr., C.G. Ingersoll, P.F. Landrum, M.J. Mac, T.J. Murphy, J.E. Rathbun, V.E. Smith, H.E. Tatem, and R.W. Taylor. 1992. Assessment of sediment contamination at Great Lakes Areas of Concern: The ARCS Program Toxicity-Chemistry Work Group strategy. *J. Aquat. Ecosys. Health*, 1:193-200.