

CHARLES E. STEPHAN

Environmental Scientist

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Education:

B.S., Chemistry, Case Institute of Technology, 1961

M.S., Chemistry, University of Cincinnati, 1973

Employment:

1973-Present Research Chemist, Environmental Scientist, U.S. EPA, Duluth, MN

1963-1973 Research Chemist, USPHS, FWPCA, U.S. EPA, Cincinnati, OH

Research Interests and Skills:

Aquatic toxicity tests; technical assistance; water quality criteria for aquatic life; statistics

Professional Societies:

Society of Environmental Toxicology and Chemistry

Selected Appointments/Honors/Major Awards:

ASTM Service Award

Selected Publications:

Stephan, C.E. 2002. Use of species sensitivity distributions in the derivation of water quality criteria for aquatic life by the U.S. Environmental Protection Agency. In *Species Sensitivity Distributions in Ecotoxicology*, Lewis Publishers, Boca Raton, FL, pp. 211-220.

Stephan, C.E., R.J. Erickson, C. Delos, T. Willingham, K. Ballentine, and R. Pepin. 1998. 1998 Update of ambient water quality criteria for ammonia. U.S. EPA, Washington, DC.

Stephan, C.E., W.H. Peltier, D.J. Hansen, C.G. Delos, and G.A. Chapman. 1994. Interim guidance on determination and use of water-effect ratios for metals. EPA-823-B-94-001. U.S. EPA, Washington, DC.

Erickson, R.J. and C.E. Stephan. 1988. Calculation of the final acute value for water quality criteria for aquatic organisms. EPA/600/3-88-018. U.S. EPA, Washington, DC.

Stephan, C.E., et al. 1985. Guidelines for deriving numerical national water quality criteria for the protection of aquatic organisms and their uses. PB85-227049. U.S. EPA, Washington, DC.

Stephan, C.E. and J.W. Rogers. 1985. Advantages of using regression analysis to calculate results of chronic toxicity tests. In *Aquatic Toxicology and Hazard Assessment*, ASTM, Philadelphia, PA, pp. 328-338.

Stephan, C.E. 1977. Methods for calculating an LC50. In *Aquatic Toxicology and Hazard Evaluation*, F.L. Mayer and J.L. Hamelink, Eds., ASTM, Philadelphia, PA, pp. 65-84.

Geckler, J.R., W.B. Horning, T.M. Neiheisel, Q.H. Pickering, E.L. Robinson, and C.E. Stephan. 1976. Validity of laboratory tests for predicting copper toxicity in streams. EPA-600/3-76-116. Washington, DC.

Stephan, C.E., et al. 1975. Methods for acute toxicity tests with fish, macroinvertebrates, and amphibians. EPA-660/3-75/009. U.S. EPA, Washington, DC.

Mount, D.I. and C.E. Stephan. 1967. A method for establishing acceptable toxicant limits for fish - Malathion and the butoxyethanol ester of 2,4-D. *Trans. Amer. Fish. Soc.* 96:185-193.