

**ELIZABETH A. MAKYNEN**

Chemist

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Education:

B. S., Chemistry, University of Wisconsin, River Falls, 1974

Employment:

1995 – Present Chemist, U.S. EPA, Duluth, MN  
1993 – 1995 Research Chemist, SAIC, Duluth, MN  
1989 – 1992 Bioassay Chemist, ASci Corporation, Duluth, MN  
1983 – 1989 Junior Scientist, UMD Medical School, Duluth, MN  
1974 – 1982 Advanced Chemist, 3M Company, St. Paul, MN

Research / Administrative Interests and Skills:

Analytical chemistry test method development, analysis of trace levels of endocrine disrupting chemicals by high performance liquid chromatography

Professional Societies:

American Chemical Society

Selected Appointments/Honors/Major Awards:

STAA for a journal article concerning the evaluation of the model anti androgen flutamide, 2005  
STAA for journal articles concerning the ecological risk of trenbolone, 2004  
STAA for a journal article on EPA screening and testing program for EDCs, 2003  
STAA for a journal article on fathead minnow EDCs, 2001

Selected Publications:

Ankley, G.T., K.M. Jensen, E.A. Makynen, M.D. Kahl, J.J. Korte, M.W. Hornung, T.R. Henry, J.S. Denny, R.L. Leino, V.S. Wilson, M.C. Cardon, P.C. Hartig and L.E. Gray. 2003. Effects of the androgenic growth promoter 17 $\beta$ -trenbolone on fecundity and reproductive endocrinology of the fathead minnow (*Pimephales promelas*). *Environ. Toxicol. Chem.* 22, 1350-1360.

Makynen, E.A., M.D. Kahl, K.M. Jensen, J.E. Tietge, K.L. Wells, G. Van Der Kraak, and G.T. Ankley. 2000. Effects of the mammalian antiandrogen vinclozolin on development and reproduction of the fathead minnow. (*Pimephales promelas*). *Aquat. Toxicol.* 48:461-475.

Kosian, P.A., Makynen, E.A., Monson, P.D., Mount, D.R., Spacie, A., Mekenyan, O.G., ANKLEY, G.T. (1998). Application of Toxicity-based Fractionation Techniques and Structure-Activity Relationship Models for the Identification of Phototoxic Polycyclic Aromatic Hydrocarbons in Sediment Pore Water. *Environmental Toxicology and Chemistry* 17,6:1021-1033.