

# David R. Ownby

- Position: Lecturer; Post-Doctoral Fellow
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## Education:

- Ph.D. in Marine Science, The College of William & Mary, VA (2002)
- M.S. in Environmental Toxicology, Clemson University, SC (1997)
- B.S. in Chemistry, Davidson College, NC (1995)

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## Teaching:

**Zool 115 (Fall Semester 2003)**

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## Research:

Bioavailability and toxicity of metal contaminants from mine wastes to multiple earthworm species

Aqueous bioconcentration of trinitrotoluene(TNT) in the channel catfish

Statistics for analysis of pesticide mixtures

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## Selected Publications:

Ownby, D.R., G. Lotufo, M.J. Lydy. **Aqueous bioconcentration of trinitrotoluene (TNT) in the channel catfish (*Ictalurus punctatus*)**. *In Prep.*

Ownby, D.R. and M.C. Newman. 2003. **Advances in quantitative ion character-activity relationships (QICARs): Using metal-ligand binding characteristics to predict metal toxicity.** *QSAR & Combinatorial Science* 22(2):241-246.

Mulvey, M., M.C. Newman, W.K. Vogelbein, M.A. Unger, D.R. Ownby. 2003. **Genetic structure and mtDNA diversity of *Fundulus heteroclitus* populations from polycyclic aromatic hydrocarbon-contaminated sites.** *Environmental Toxicology and Chemistry* 22(3):671-677.

Ownby, D.R., L. F. Arzayus, M. Mulvey, W. K. Vogelbein, M.A. Unger, M.C. Newman. 2002. **Fish (*Fundulus heteroclitus*) populations with different exposure histories differ in tolerance of creosote-contaminated sediments.** *Environmental Toxicol. Chem.* 21(9):1897-1902

Ownby, D.R., T. W. La Point, G. P. Cobb. 2001. **Silver Size Fractionation in Aqueous Toxicity Test Solutions.** *Toxicological and Environmental Chemistry* 81:29-41.

Newman, M.C., D.R. Ownby, L.C.A. Mezin, D.C. Powell, T.R.L. Christensen, S.B. Lerberg, and B.A. Anderson. **Species sensitivity distributions in ecological risk assessment: Analysis of distributional assumptions, alternate bootstrap techniques, and estimation of adequate number of species.** (Invited Book Chapter: The Use of SSDs in Ecotoxicology, G. Sutter and L. Posthuma, eds.).

Newman, M.C., D.R. Ownby, L.C.A. Mezin, D.C. Powell, T.R.L. Christensen, S.B. Lerberg, and B.A. Anderson. **Applying species sensitivity distributions in ecological risk assessment: Assumptions of distribution type and sufficient numbers of species.** *Environmental Toxicol. Chem.* 19(2):508-515.

Karen, D.J., D.R. Ownby, B.L. Forsythe, T.P. Bills, T.W. La Point, G. P. Cobb, S.J. Klaine. 1999. **Influence of Water Quality on Silver Toxicity to Rainbow Trout (*O. mykiss*), Fathead Minnows (*P. promelas*), and the Waterflea (*D. magna*).** *Environmental Toxicol. Chem.* 18(1):63-70.