

# CHEMISTRY

## REFEREED PUBLICATIONS

- Baba, A.I.**, Shaw, J.R., Simon, J.R., Thummel, R.P., & Schmehl, R.H. (1998). The photophysical behavior of  $d_6$  complexes having nearly isoenergetic MLCT and ligand localized excited states. Coordination Chemistry Reviews, *171*, 43-59.
- Davis, C.M.**, Klein, M.F & Nicholson, K.T. (2002). Organotransition-metal-mediated borane-cage expansion. Phosphorus, Sulfur Silicon Relat. Elem., *177*, 659-664.
- Davis, C.M.**, Klein, M.F. (2001). Synthesis and Reactivity of a Metallaborane Complex:  $[\text{Mo}(\text{CO})_4\text{B}_3\text{H}_8]^-$  and the Formation of  $\text{Mo}(\text{CO})_4(\text{dppe})$ . J. Chem. Educ., *78*, 952-953.
- Sculimbrene, B.R.\*, Decanio, R.E.\*, Peterson, B.W.\*, Muntel, E.E.\*, **Fenlon, E. E.** (2001). Silatranyl-nucleosides: transition state analogues for phosphoryl transfer reactions. Tetrahedron Lett., *42*, 4979-4982.  
(\*indicates a Xavier undergraduate student.)
- Marawi, I.**, Zhang, H., et. al. (1998). Flow injection amperometric detection of catechol using dual-band poly (3-methylthiophene) electrodes. Electrochimica Acta, *43*, 3511-3524.

## BOOKS

- Hopkins, B.M.**, & Dorn, J.M. (1998). Thanatochemistry, (2nd. ed.), Upper Saddle River, New Jersey: Prentice-Hall, Inc.

## PRESENTATIONS AT ACADEMIC CONFERENCES

- Cohen, R.J.** (2001). Maintaining data quality in an analytical laboratory. Paper presented at the Pittsburgh Conference on Analytical Chemistry and The Great Lakes Regional American Chemical Society meeting.
- Fenlon, E.E.** (2001). Silatranyl-nucleosides: Synthesis and medicinal/ribozyme applications. 222nd National Meeting of the American Chemical Society. Chicago, IL.

**Fenlon, E.E.** (2001). Silatranyl-nucleosides: Synthesis and medicinal/ribozyme applications. Paper presented at the IU Symposium for Excellence in Undergraduate Chemical Research. Bloomington, IN.

**McLoughlin, D.J.** (2001). Bacterial secretion as a target for a new generation of antibiotics: The role of X-ray crystallography. Invited Seminar presented to faculty and students of John Carroll University, University Heights, OH.

#### OTHER

**Davis, C.M.** (1998). Photochemical and redox reactions and spectroelectrochemistry of boron-hydride clusters. Chemistry Department Seminar, Ohio State University, Columbus, OH.

**Fenlon, E.E.** (2001). Silatranyl-nucleosides: Synthesis and medicinal/ribozyme applications. Invited lecture at Union College.

**Fenlon, E.E.** (2001). Silatranyl-Nucleosides: Synthesis and Medicinal/Ribozyme Applications. Invited lecture at Colby College.

**Fenlon, E.E.** (2000). Silatrane-nucleosides: Synthesis and medicinal/ribozyme applications. Lecture for University of California, Santa Cruz, CA.

**Black, C.A., Fenlon, E.E., Ucci, J.W., Mattingly, M.C. Muntel, E.E., & Sculimbrene, B.R.** (2000). Synthesis and biological activity of silatrane-deoxynucleosides. Poster session presented at the 32<sup>nd</sup> Central Regional Meeting of the American Chemical Society, Cincinnati, OH.

**Fenlon, E.E., Kempton, R.J., Ong, H.C., & Gouge, D.** (2000). Synthesis of a deaza analogue of methotrexate. Poster session presented at the 32<sup>nd</sup> Central Regional Meeting of the American Chemical Society, Cincinnati, OH.

**Fenlon, E.E., Napolitano, B.R., Ucci, J.W., Beyer, L.S., & Mattingly, M.C.** (1999). Synthesis of silatrane-nucleosides: Potential anti-HIV compounds and ribozyme probes. Poster session presented at the 36<sup>th</sup> National Organic Symposium, Madison, WI.

**Fenlon, E.E.** (1999). Synthesis of silatrane-nucleosides: Potential anticancer/anti-HIV compounds and probes of ribozymes. Lecture, Northern Kentucky University, Highland Heights, KY.

**Fenlon, E.E.** (1998). Silatrane-nucleosides as transition state analogues for phosphoryl transfer reactions. Lecture for Cincinnati Section of the American Chemical Society, Cincinnati, OH.

**Hopkins, B.M.** (1998). Preparing future faculty. Seminar, University of Cincinnati, Cincinnati, OH.

**McLoughlin, D.J.** (1998). Ethics in environmental choices. Lecture for Teacher Enhancement Workshop, Miami University, Oxford, OH.