

# CHEMISTRY

## REFEREED PUBLICATIONS

- Davis, C.M.**, Chess, D.J., Curran, K.A. & Schnee, V.P. (2004). Interactions of the Arachno-Octahydrotriborate Anion with transition-metal halides. Poster presentation at the Central Regional Meeting of the American Chemical Society, Indianapolis, IN.
- Davis, C.M.** & Mauck, M.C. (2003). Titrimetric determination of carbon dioxide in a heterogeneous sample ("Pop Rocks"). Journal of Chemistry Education **80**, 552-553.
- Davis, C.M.**, Klein, M.F. & Nicholson, K.T. (2002). Organotransition-metalmediated 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  $\text{Mo}(\text{CO})_4(\text{dppe})$ . Journal of Chemical Education, **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 Letters, **42**, 4979-4982. (\*indicates a Xavier undergraduate student.)

## 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, Pittsburgh, PA.
- Fenlon, E.E.** (2001). Silatranyl-nucleosides: Synthesis and medicinal/ribozyme applications. Paper presented at the 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

**Fenlon, E.E.** (2003). Silatranyl-nucleosides: Synthesis and medicinal/ribozyme applications. Invited lecture at Wright State University, Dayton, 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 silatranedeoynucleosides. 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.

Gomez, K & **Hopkins, B.M.** (2004). Gas chromatography method for analysis of benzyl alcohol in air. In P.F. O'Connor & P.F. Schlecht, (Eds.), NIOSH Manual of Analytical Methods, 4th ed., 34d supplement. National Institute for Occupational Safety & Health, Cincinnati, OH.

**Hopkins, B.M.** (2004). Air sampling method for dibutyltin chloride using high performance liquid chromatography (HPLC) and inductively coupled plasma (ICP) spectroscopy. Poster presented at the National Conference on Undergraduate Research, Indianapolis, IN.

**Hopkins, B.M.** (2004). General, Organic, and Biological Chemistry: an Integrated Approach. {Reviewed 14 chapters}. McGraw Hill.

**Hopkins, B.M.** (2004). Nitroalkanes by Gas Chromatography by Stephanie Pendergrass for NIOSH Manual of Analytical Methods (NMAM), 4th ed., 3rd supplement, (Eds.) P.F. O'Connor and P.F. Schlect. {Review}.