

CHEM 481/CHEM 581
SPRING 2008
M/W 5:45-7:15 PM

Environmental Chemistry

- ◆ Introduction/Sources of Chemicals
- ◆ Chemodynamics and Fugacity
- ◆ Polarity and Solubility
- ◆ Partitioning & Bioaccumulation
- ◆ Adsorption and Leaching
- ◆ Vapor Pressure
- ◆ Volatilization and Deposition
- ◆ Chemodynamics/Overview
- ◆ Hydrolysis/Eliminations
- ◆ Fugacity
- ◆ Environmental Oxidations
- ◆ Environmental Photochemistry
- ◆ Biotransformations
- ◆ Environmental Fate Modeling
- ◆ Analytical Procedures
- ◆ Case Study/Human exposure to the fumigant by-product methyl isothiocyanate



Environmental Chemistry

Environmental chemistry attempts to describe and quantify physical and chemical properties, processes, and principles to predict or model environmental behavior and fate of chemical releases.

This is a "Writing in the Major" Chem 481 undergraduate course. As such, all undergraduates will be required to write a research paper based on the lecture material and class readings. All graduates taking the course as Chem 581 will give a 20 minute seminar highlighting environmental processes and chemical kinetics for a specific or selected group of environmental pollutants.

There will be two class evaluations and a comprehensive final exam.

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