DREXEL UNIVERSITY
DEPARTMENT OF CHEMISTRY
2003-04 SEMINAR SPEAKERS AND TITLES
(Presentations at various levels, depending on audience make-up)

Anthony W. Addison, Professor of Inorganic Chemistry
Email: addisona@drexel.edu  Tel:  (215) 895-2646

1. * “Some Rôles of Sulfur and Imidazole in (Bio)Inorganic Systems.”
3. * “Magnetically Interacting Copper and Nickel Compounds: Chains and Macrocycles.”
   *It helps if you have a Mac with projection screen.

Alan R. Bandy, R.S. Hanson Professor of Atmospheric Chemistry
Email: bandyar@drexel.edu  Tel:  (215) 895-2640


Jean-Claude Bradley, Associate Professor of Supracolloidal Science
Email: bradlejc@drexel.edu  Tel:  (215) 895-2647

1. “Applications of Bipolar Electrochemistry in Materials Science.”
2. “SMIRP: Knowledge Management Using a Self-Evolving Database Structure-Applications in the Laboratory and in Education.”

Joe P. Foley, Interim Associate Dept. Head & Professor of Analytical Chemistry
Email: jfoley@drexel.edu  Tel:  215) 895-6218


Robert O. Hutchins, G.S. Sasin Professor of Organic Chemistry
Email: hutchiro@drexel.edu  Tel:  (215) 895-2644

1. “Stereochemistry of Cyclic Carbon-nitrogen p-System Reductions.”
2. “Enantio- and Diastereoselective Synthesis of Amines.”

Amar Nath, Professor of Physical Chemistry
Email: amar.nath@drexel.edu  Tel:  (215) 895-2648

2. “Can Super-excited Molecules Escape Fragmentation?”
3. “Why Should Chemists be Interested in High Temperature Superconductivity?”
4. “What is so Fascinating About Magnetoresistive Mixed-Valence Manganites, La1-x Cax Mn03?”

Kevin G. Owens, Interim Assoc. Dept. Head & Assoc. Prof. of Analytical Chemistry  
Email: kevin.owens@drexel.edu  Tel: (215) 895-2621

2. “Prospects and Problems in MALDI TOFMS” (The seminar can focus on either biological or synthetic polymer systems).”
4. “Defining Molecular Structure: Synthetic Polymer Analysis by MALDI TOFMS.”
6. “Analytical Calibration: What is the Best-Fit Line Through the Data (and What Do I Do Once I Have It)?”

Carey M. Rosenthal, Associate Professor of Physical Chemistry  
Email: carey.rosenthal@drexel.edu  Tel: (215) 895-2641

1. “High Dimensional Model Representations and Chemical Applications.”

Reinhard Schweitzer-Stenner, Associate Professor of Physical Chemistry  
Email: RSchweitzer-Stenner@drexel.edu  Tel: (215) 895-2268

1. “The relevance of the polyproline II conformation for the understanding of the so called disordered states of peptides and proteins.”
3. “Resonance Raman Dispersion Spectroscopy: A Tool to Probe Functionally Relevant Deformations of Porphyrins in Solution and in Protein Matrices.”
4. “A Physicist's Look on a Protein: The Myoglobin Case.”
5. “The Determinants of the Stimulatory Capacity of the Type I Fce-Receptors on Mast Cells.”

Allan L. Smith, Professor of Physical Chemistry  
Email: asmith@drexel.edu  Tel: 215) 895-1861


Karl Sohlberg, Assistant Professor, Physical Chemistry  
Email: sohlbergk@drexel.edu  Tel: (215) 895-2653
1. “Design engineering tools for molecular gizmos.”
2. “Breathing water and eating aluminum: The unusual chemistry of catalytic aluminas.”
3. “Preserving the Symmetry in Approximate Hamiltonians from the Birkhoff-Gustavson Normal Form Procedure.”

**Sally Solomon, Professor; Materials in Chemical Education**

*Email:* sallys@drexel.edu  *Tel:* (215) 895-2642

2. “Demonstrations on the Overhead Projector (demonstration talk).”
3. “Demonstrations with a Collection of the Chemical Elements (demonstration talk).”
4. “Science in Motion (Transporting Instruments and Experiments to Secondary Schools).”

**Peter A. Wade, Interim Department Head & Associate Professor of Organic Chemistry**

*Email:* wadepa@drexel.edu  *Tel:* (215) 895-2638 or 2639

1. “Competing Diels-Alder Reactions and [2,3]-Sigmatropic Rearrangements: Different Ways of Getting to the Same Place.”
2. “The Outer Limits of Nitro Compounds.”

**Yen Wei, Professor of Materials Chemistry**

*Email:* weiyen@drexel.edu  *Tel:* (215) 895-2650

1. “Plastics That Conduct Electricity - A Fascinating World of Polymers.”
3. “New Organic-Inorganic Hybrid Sol-Gel Materials and Their Biomedical Applications.”