

## 1998 HONORS IN CHEMISTRY

Requirements for Honors in Chemistry include a program of research with readings from the original literature, presentation of an Honors Essay, typically about 60 pages in length, and the satisfactory completion of a comprehensive oral examination in the subject area of the research. Nineteen Seniors were awarded Honors in Chemistry.

- **Pamela Anastasia Argiriadi:**  
"Simulation of the Glass Transition of a Polymer and the Effect of Geometric Constraint"
- **Catherine Steiner Branch:**  
"Magnetic Properties of  $\text{Mn}_{1-x}\text{Ni}_x\text{Cl}_2 \cdot 4\text{H}_2\text{O}$ "
- **James Forest Bush, II:** "Mercury Coordination Studies of Protein Metal Binding Site Models"
- **Sagar Subhash Damle:** "Studies of Mercury Coordination to Cyclic Dipeptides"
- **Anne Elizabeth DeLanoy:**  
"Mercury Coordination Studies of Tridentate Ligands by X-ray Crystallography and NMR Spectroscopy"
- **Andree Didine Ebersole:**  
"Monitoring the Degradation of Nylon-11"
- **Erin Elaine Gooch:** Semi-Classical Approximations of the Electronic Energies of Single-Electron Diatomic Molecules"
- **Jennifer Michelle Johnson:** "I. Determination of Pb in Salineta Water; II. Excitation Temperatures in a Miniaturized Helium Discharge"
- **Michael E. Ke:** "Aryloxy-Ligated Titanium Complexes as Precatalysts for Intramolecular Diels-Alder Reactions"
- **Sharon Lee:** "A Study of Three
- **Brian Thomas Lottig:** "Synthesis and Characterization of (Alkenyl) Iridium(III) Complexes"
- **Susan Elizabeth Miller:**  
"Increasing Efficiency in the Formation of  $\beta$ -Cyclodextrin Z-uloside"
- **Kimberly Ann O'Neill:** "The Detection of DNA Polymorphisms Using Dynamic Size-Sieving Capillary Electrophoresis"
- **Michael Anthony Repucci:**  
"An Alternate Synthesis of  $6^A, 6^B$ -Dideoxy- $6^A, 6^B$ -(9, 10-Dicyanoanthracenyl-2, 3-Dimethylene)- $\beta$ -Cyclodextrin"
- **Heather Marie Rowe:** "New Synthetic Routes to  $[\text{Mn}(\text{CO})_{4-x}\text{L}_x(4\text{-diene})]^+$  and  $[\text{Mn}(\text{CO})_{5-x}\text{L}_x(n^2\text{-olefin})]^+$  Complexes"
- **Susanna Hewon Shin:** "Synthesis of {Hydroxycarbonyl (1-Cycloheptatrienyl) Methyl} Triphenylphosphonium Tetrafluoroborate"
- **Jennifer Lynn Wasyk:**  
"Synthesis and Characterizations of Highly Reflective Surface Metallized Polymeric Films Prepared via in situ Reduction of (4,4,4-Trifluoro-1-(2-Thienyl)-1,3-Butadienato) Silver(I) in a Polymer Matrix"
- **Silke Sofie Wunderwald:**  
"Optimization of a Miniaturized

Magnetically Interesting Mixtures:  $\text{Co}_{1-x}\text{Ni}_x\text{Cl}_2 \cdot 6\text{H}_2\text{O}$ ,  $\text{Co}_{1-x}\text{Mn}_x\text{Cl}_2 \cdot \text{H}_2\text{O}$ ,  
and  $\text{Co}_{1-x}\text{Mn}_x(\text{SCN})_2(\text{CH}_3\text{OH})_2$ "

Helium Discharge Detector for the  
Detection of Halogenated Compounds"

- **Benjamin James Wylie:**  
"Effects of Heat and Ultraviolet  
Radiation on Polyimide Neat Resin and  
Polyimide/M7 Composites"

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