Honors 2008

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. This year ten Seniors were awarded Honors. Faculty mentors' names are in parentheses.

Jeb Bates (Knudson)
Molecular Hydrogen: A Theoretical Investigation into the One Electron Densities of the First Three $^{1}\Sigma_{g}^{+}$ States

Justin Connell (Outlaw)
Effect of Interstitial Impurities on the Residual Resistivity of Niobium Thin Films

Nick Economou (Harbron)
Modulated Fluorescence in Films of Spiropyran-functionalized PPV Derivatives

Colin Fuller (Coleman)
Stress and MS: A Computational Model of Multiple Sclerosis and Cellular Stress

Alex Gade (Abelt)
Attempted Synthesis of 7-methoxy-3,4-dihydrophenanthren-1-*(2H)*-one

Emily Harbert (Orwoll)
Poly(arylene ether) Synthesis and Incorporation of Gadolinium Compounds for Improvement of Radiation Shielding for Use in Outer Space

Lauren Katkish (Hinkle)
Toward Biologically Active 2,6-disubstituted Dihydropyran Ring Systems Using an Environmentally Benign Bismuth Catalyst and Mukaiyama Aldol Reaction

Aakarsh Saxena (Pike)
Synthesis and Characterization of Copper(I) Halide and Nitrate Complexes of Heterocyclic Thioureas

Jordan Walk (Kranbuehl)
Spontaneous Amide Bond Formation of Amines, Carboxylic Acids and Amino Acids in Aqueous Solution

Ian Webb (J.C. Poutsma)
Gas-phase Acidities and Proton Affinities of Amino Acid Analogs from the Extended Kinetic Method