

Honors 2011

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 thirteen Seniors were awarded Honors. (Faculty mentors' names are in parentheses.)

Stephen Ammann (Hinkle)

Bismuth Reagents in Organic Chemistry: Structural and Mechanistic Studies

Joseph Christesen (Kranbuehl)

Mechanical Properties of Solvent Cast Graphene-Polymer Nanocomposites

Hillary Clark (Landino)

Hypothiocyanous Acid Oxidation of Tubulin Cysteines Inhibits Microtubule Polymerization

Matthew Dembo (Pike)

Investigation of Copper (I) Cyanide for Use as a Luminescent Sensor Device

Ashley Hoover (Rice)

Evaluation of Micro-Preconcentrators and Solid Phase Microextraction Fibers for MEMS-based Gas Chromatography Systems

Robert Lambert (Hinkle)

Convenient, Bismuth Mediated, One-pot, Two Component Synthesis of 2,6-Disubstituted-3,4-Dihydropyrans

Clare LeGuyader (Harbron)

Rhodamine Derivatized Dyes and Detection of Mercury

Nicholas Lopez (Abelt)

Synthesis of 1-(5-methylhexyl)-2,3,8,9-tetrahydro-1*H*-naphtho[2,1-*e*]indol-6(7*H*)-one

Kyle Overdeep (Kranbuehl)

Absorption of Various Small Organic Acid-water and Alcohol-water Solutions into Polyamide-11

Courtney Roberts (Harbron)

Kinetic Studies of Rhodamine Spirolactam Ring-Opening

Ellen Speers (Orwoll)

The Production of Novel Poly(arylene ethers) for Use as Radiation Shielding in Outer Space

Pei Wang (Bebout)

Characterization of Novel d¹⁰ Metal Ion Complexes of Multidentate Ligands by X-ray Crystallography and ¹H NMR Spectroscopy

Vincent Yannello (Poutsma)

Gas-Phase Thermochemistry of Non-Protein Amino Acids by the Extended Kinetic Method