

# Honors 2012

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 six seniors were awarded Honors. (Faculty mentors' names are in parentheses.)

## **Elizabeth Childress (Harbron)**

Fluorescence Sensing of Mercury by Dye-Doped Conjugated Polymer Nanoparticles

## **Lars Dunaway (Pike)**

Fabrication and Evaluation of Copper(I) Iodide Sensor Substrates

## **Amy Green (Abelt)**

Synthesis of 1-(6-(dimethylamino)naphthalen-2-yl)-2,2-dimethylpropan-1-one as a Fluorescent Probe of Solvent Acidity in HAS

## **Hannah Naughton (Abelt)**

Potential of PRODAN derivatives as chemosensors of the microacidity of cyclodextrin host-guest complexes

## **Zachariah Nealy (Abelt)**

Are Twisted Derivatives of PRODAN More Effective than Planar Derivatives as Detectors of Solvent Acidity in Micellar Solutions?

## **Rita Straus (Poutsma)**

Hydrogen Deuterium Exchange of Lysine Homologs and Construction of a Nanospray Ionization Source