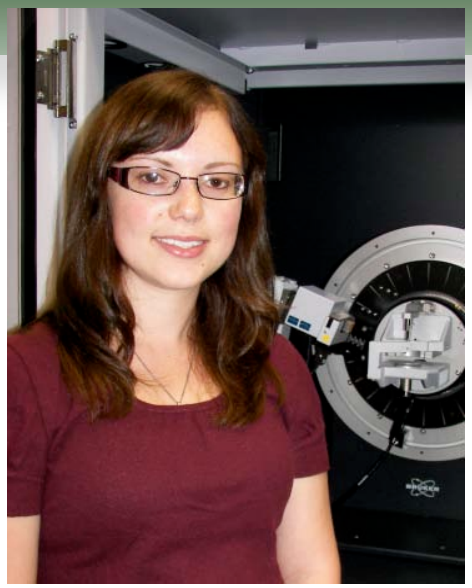
Victoria L. Knox



Graduate Institution: Inamori School of Engineering at Alfred University (New York State College of Ceramics)

Location: Alfred, New York

Graduate Discipline: Ceramic Engineering

Hometown: Albany, New York

Research Interests:

*I am currently working on Aurivillius photocatalysts which will be used for hydrogen production in a water splitting process. The specific project that I am working on is to make the materials more effective in harnessing visible light by introducing small amounts of nitrogen into the microstructure. My research group has a large focus on characterization of materials by using x-ray powder diffraction and **in-situ** x-ray diffraction. We use the x-ray data, often times with neutron and synchrotron data, to assist in determining structure-property relationships. In the future I would like to work with ferroelectric, piezoelectric ceramics and other materials for clean energy.*

About me:

I completed my Bachelors degree at Alfred University in ceramic engineering with a minor in glass science technology. During my undergraduate years, I was an intern at Corning Incorporated for two consecutive summers where I worked with honeycomb style ceramic substrates and the fusion draw process for LCD glass.

I am actively involved with The American Ceramics Society. In 2008, with the help of ACerS, I co-founded the President's Council of Student Advisors which works to get materials engineers more involved in the world of ceramics. Today, I am still an active delegate of the PCSA by organizing technical symposia for undergraduate and graduate students to present their work at ACerS-specific technical meetings.

As a current graduate student, I have been working with outreach facilitators to bring science and engineering to visiting students from local schools. Recently, I represented the Inamori School of Engineering by working with graduate students from other departments at AU to found the Graduate Student Senate to bring unity to the Alfred University graduate school. My favorite pastimes include playing clarinet in the University Symphonic Band, hiking, gardening and horseback riding

After graduate school, I plan to go into the research industry either at a national laboratory or in the private sector to continue my educational growth in a more applied format. Five or ten years from there I hope to become a professor to pass on my knowledge to the younger generations.