

Steven J. Maglio

Objective

To work in a position that will utilize my geologic and computer-related skills, and allows me to work with other people toward the completion of a set goal.

Experience

2007—Present University of Nevada, Las Vegas Las Vegas, NV

- Currently developing an experimental technique to observe elements in aqueous solution while at high pressure and temperature using the hydrothermal diamond anvil cell and synchrotron radiation facilities.

2005—2007 Northern Illinois University DeKalb, IL

- Taught 300 level mineralogy lab(s) and 100 level introductory geology lab(s) sessions while pursuing a Master of Science Degree.
- Conducted experiments determining the lattice parameters of minerals at high-temperature and/or pressure using diamond anvil cells and synchrotron radiation.

2004—Present

- 10+ trips to synchrotron radiation facilities to conduct geologic experiments at high pressure and temperature. Trips were predominantly made to the Advanced Photon Source at Argonne Nat'l Lab, with one to the Nat'l Synchrotron Light Source at Brookhaven Nat'l Lab.

2003—2005 NIU Geology Department DeKalb, IL

Undergraduate Research

- Conducted research on the study of 'dirty' Ice VII systems. Varying KCl and NaCl weight percents in the Ice VII structure were studied at different temperature and pressure regimes.
- Completed Undergraduate Research Apprenticeship Program (URAP) Project with Dr. Mark Frank in spring 2004. Learned the operation and analytical techniques of research using X-Ray Powder Diffraction at the Advanced Photon Source at Argonne Nat'l Lab. The submitted research paper was approved by the College of Liberal Arts and Sciences.

May—June 2004 NIU-ISU Geologic Field Camp Western USA

Geologic Field Work

- Completed six week program in field mapping and integrative geologic problem-solving. Learned how to describe rocks, measure stratigraphic sections, record geologic field data, and create geologic cross-sections.
- Participated in seven different group mapping projects ranging from two to five days in length, and covering areas approximately one to three square miles. Included areas contained lightly to highly deformed Precambrian igneous and metamorphic rocks as well as sedimentary rocks deformed during the Laramide and previous orogenies.

Education

2005—2007 Northern Illinois University DeKalb, IL

- Graduated in December 2007 with Master of Science in Geology.

2001—2005 Northern Illinois University DeKalb, IL

- Graduated in May 2005 with Bachelor of Science in Geology.

Skills

- Operation of scientific equipment such as petrographic microscopes, introductory experience with scanning electron microscopes (SEM). Knowledge of the operation and certain techniques available at synchrotron radiation facilities.
- Knowledge of how to load Diamond Anvil Cell (DAC) samples and various experimental procedures.
- Ability to identify rocks and minerals with hand specimens, in thin section, or on a SEM.
- Excellent skills with computers in many forms. Advanced experience with Windows, MS Office. Experience building computers and small networks.