Heather Upin

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Education

- Smith College, Northampton, MA (anticipated May 2016)
  - Bachelor of Arts, Geosciences
  - GPA: 6.62
  - Honors thesis title- A study of the hydrology and geochemistry of Paulina Lake in Newberry Volcano, Central Oregon; Advisor: Robert Newton

Awards and Honors

- Member of Sigma Xi (2015 – present)
- Geostars grant recipient (2015)
- Dean's List (2013-2014)

Relevant Coursework

- Petrology (Spring 2016)
- Mineralogy; Sedimentary Geology (Fall 2015)
- Structural Geology; Aqueous Geochemistry (Spring 2015)
- Chemistry III: Organic II; Invertebrate Paleontology and History of Life (Fall 2014)
- Chemistry II: Organic Chemistry; Geomorphology (Spring 2014)
- Chemistry I: General; Introduction to Earth Processes and History; Exploring your Local Geologic Landscape (Fall 2013)
- Introductory Physics I; Fundamental engineering principles; Introduction to Computer Science through Programming- Python (Spring 2013)
- Calculus II: Differential Equations and Power Series; Engineering for Everyone (Fall 2012)

Work and Academic Experience

- Teaching Assistant for Aqueous Geochemistry; Smith College Geosciences department (anticipated Spring 2016)
  Will assist with laboratory exercises in the Center for Aqueous Biogeochemical Research (CABR) and on class field trips. Professor: Amy Rhodes
- The Newberry Crater Lakes, Oregon; Keck Geology Consortium (Summer 2015)
  Field and lab work in preparation for my senior thesis; project focusing on Paulina Lake's characteristically high arsenic concentration and its prehistoric catastrophic flood. Field work in Oregon lasted two weeks. Professor: Johan Varekamp, Wesleyan University
- Teaching Assistant for Organic Chemistry lab; Smith College Chemistry department (Spring 2015)
  Assisted instructor with laboratory experiments, answered student's questions and made sure the laboratory experiments ran smoothly. Professor: Rebecca Thomas
- Museum assistant at the Museum of Mineralogy and Petrology, University of Athens (Summer 2014)
  Aided museum employees with sorting unknown minerals and attended lectures on mineralogy with various professors in the Department of Geology at the University of Athens in Greece.
- Smith College Global Engagement Seminar to Greece entitled The Archaeology of Greece in its Geologic Context (Summer 2014)
  Studied on various Greek islands and the mainland during a three week seminar exploring the archaeology and geology of Greece. During the seminar each student gave two presentations about topics we covered and places we saw; my topics covered the Akrotiri cinder cones and ancient silver mines of Lavrio. Professors: John Brady and Scott Bradbury

- Research Intern at the Institute of Child Development, University of Minnesota (Summer 2012)
  Assisted a PhD student with dissertation research; duties- study preparation and protocol design

Abstracts

Upin, Heather E., Newton, Robert M., Varekamp, Johan C., 2016, A study of the geochemical and geomorphic evidence for prehistoric floods from Paulina Lake, Newberry Crater, Central Oregon, Geologic Society of America *Abstracts with Programs*, v. 48, n. 2, p. 0.

Horne, Julia, **Upin, Heather E.**, Harpp, Karen, Varekamp, Johan C., 2016, The geochemistry of Paulina Lake, Newberry, OR, Geologic Society of America *Abstracts with Programs*, v. 48, n. 2, p. 0.

Caldwell, Samuel, Capece, Lena R., Chung, Angela, Hanschell, Rebecca, Horne, Julia, **Upin, Heather E.**, Thomas, Ellen and Varekamp, Johan C., 2015, The twin crater lakes of Newberry Volcano, OR, Geologic Society of America *Abstracts with Programs*, v. 47, n. 7, p. 757.

Upin, Heather E. and Newton, Robert M., 2015, Impact of logging on soil solution mercury in the Avery Brook Watershed, West Whately, Massachusetts, Geologic Society of America *Abstracts with Programs*, v. 47, n. 3, p. 70.

Extracurricular and Additional Skills

- Geologic field skills including the ability to identify different rock types and structures; how to collect, label and organize samples
- Proficient at using laboratory equipment including the X-Ray Diffractometer, Inductively Coupled Plasma Spectrometer and the Hydra C for mercury analysis
- Proficient in Adobe Illustrator, Microsoft Word, PowerPoint and Excel
- Group leadership; Smith College Outing Club President (2015-2016): Organize club meetings, maintain connections to the local outdoor community and schedule and lead trips for the largest student club on campus
- Outdoor leadership; student leader for Smith College Outdoor Adventures Program
- Rock climbing instructor (2013-present)
- Customer service; front desk sales and registration at Central Rock Gym (Massachusetts) and Vertical Endeavors (Minnesota)
- Wilderness First Aid (WFA) certification through Stonehearth Open Learning Opportunities (SOLO); expires January 2017

Profession Membership

- Sigma Xi, Smith College Chapter
- Geologic Society of America

References

Robert Newton (rnewton@smith.edu), thesis adviser and mentor
Amy Rhodes (arhodes@smith.edu), professor
Scott Johnson (sjohnson@smith.edu), employer and mentor
Hana Shirkey (hana@centralrockgym.com), employer