

## BIOGRAPHICAL SKETCHES

PI: **KELBY E. HICKS**

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### EDUCATION

M.Sc., Geophysical Hazards: University College London	in progress
B.S., Geology: West Virginia University	2005
Student Exchange, Geology: University of Hawai'i at Hilo	2004

### RESEARCH AND PROFESSIONAL EXPERIENCE

#### **Employment**

Volcan, Inc. Nonprofit Volcanic Hazards Mitigation Team, Austin, Texas, USA	05/06 – present
Geologist 1. WVGES, West Virginia, USA	07/05 – 07/06
Collaborating Scientists. INGEMMET, Lima, Peru	05/06
Digitizer. WVGES, West Virginia, USA	01/05 – 07/05
Teaching Assistant and Field Worker. CSAV, Hilo, Hawai'i, USA	07/04 – 12/04
Fieldworker. WVGES, West Virginia, USA	06/04 – 07/04
Volunteer. OMKM, Hilo, Hawai'i	01/04 – 05/04
AASG and NSF Internship. WVGES, West Virginia, USA	06/03 – 01/04

#### **Tasks and positions held of last 5 years**

2006 – present	Co-Founder of Volcan.org and Assistant Director of Volcan, Inc., nonprofit corporation working in small indigenous communities to help reduce risk from threat of volcanic hazards. Volcanic Hazards Mitigation Team: Volcanologist, Geophysical Hazards Specialist.
2006	Expedition scientist working on Ubinas Volcano, Peru. Performed a series of field surveys mapping and monitoring the ongoing eruption using the FLYSPEC UV Spectrometer, GPS mapping and seismology. Report submitted to Instituto Geologico Minero y Metalurgico.
2005 – 2006	Geologist 1 with the West Virginia Geological and Economic Survey (WVGES). Underground mine mapping project.
2005	Finalizing the digitizing of the Franklin, West Virginia Quadrangle into USGS standardized format, using ArcGIS 9.1.
2004	Volunteer and field tester for the FLYSPEC gas sensor. Worked with Steven G. Clegg field testing the sensor under real conditions at the active eruption site. Also participated in the mapping of active flow fields on the East Rift Zone.
2004	Teaching Assistant and leader for the <i>Volcanology Field Monitoring and Methods</i> course. Organized food, housing, and driving for the group. Responsible for the coordination and safety of fieldwork. Worked with the instructors in teaching the various techniques of volcanic monitoring.
2004	Fieldworker, creating detailed geological map of the Fort Seybert, West Virginia Quadrangle.
2004	30 hours of volunteer service working on trail maintenance; acted as a volunteer ranger; and working safety patrol at the Visitor Center.
2003 – 2004	Association of American State Geologists (AASG) and National Science Foundation (NSF) Internship for STATEMAP Structural Mapping Project. Assisted in creating a detailed geologic map quadrangle of the Franklin, West Virginia Quadrangle. Constructed cross sections, rock identification, descriptions, sample collections and recordings.
2003 – 2004	Worked on the Coal Bed Mapping Project (CBMP). Researched well logs to determine coal bed type and depth.
2003	Worked with STRATAFACT data program, inputting and correlating well logs to determine depths of coal seams in West Virginia.
2003	Assisted in coordination and logistics of the 33 <sup>rd</sup> Annual Virginia Geological Field Conference on <i>Middle Eocene Igneous Rocks in the Valley and Ridge of Virginia and West Virginia</i> .

## PUBLICATIONS

Clegg, S.G., Hicks, K.E., Talavera Salcedo, C.G. **Field Report: Volcanic SO<sub>2</sub> Measurements at Ubinas Volcano, Peru, May 2006.** Field Report Summary for Instituto Geologico Minero y Metalurgico, Lima, Peru, May 2006

McDowell, R., Avary, K., Matchen, D., Diecchio, R., Hicks, K. and Howton, C., 2003. *Preliminary Bedrock Geologic Map of the Franklin Quadrangle, West Virginia Geological and Economic Survey* Open File Publication OF-0303.

McDowell, R., Avary, K. L., Britton, J. Q., Matchen, D. L., Diecchio, R. J., Hicks, K. E., Walkup, L. C., Burns, M. S., and Waggy, P. J., 2004, *Preliminary Bedrock Geologic Map of the Fort Seybert Quadrangle, West Virginia Geological and Economic Survey* Open File Publication, OF-0408.

## OTHER PUBLICATIONS

Volcano Video Productions. Hilo, Hi. 2004, *Winter 2005 Eruption Update (DVD)* Contributing Photographer.

## ASSOCIATED ORGANIZATIONS

Volcan.org. Founding member since 2006.

The Geological Society of America (GSA). Member since 2004.

American Association of Petroleum Geologists (AAPG). Member since 2002.