

## **John J. Lyons**

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### **EDUCATIONAL PREPARATION**

Missouri State University: Geology, B.S. 2002

*Principal Advisor:* Dr. Tomas Plymate

*Course Work:* Mineralogy, Petrology, Structural Geology, Historic Geology, Sedimentary Geology and Stratigraphy, Applied Geophysical Methods, Calculus I and II, Physics I and II.

*Field Work:* 2002 Branson Field Camp, University of Missouri – Columbia, Western U.S. geologic studies.

University of Idaho: Igneous Petrology/Geochemistry, M.S. 2004

*Principal Advisor:* Dr. Dennis Geist

*Course Work:* Volcanology, Principles of Geochemistry, Geomechanics, Regional Tectonic Analysis, Radiogenic Isotopes and Geochronology, Active Volcanism, Physical Petrology.

*Field Work:* Floreana Island, Galapagos: lava flow mapping, sampling of lavas and xenoliths, research team leader. Kilauea, Hawaii: volcanic deposit mapping. Stillwater Complex, Montana: Geologic mapping of layered intrusive body.

Michigan Technological University: Volcanic Dynamics and Hazards, Ph.D. 2004-present

*Principal Advisor:* Dr. William Rose

*Course Work:* Volcano Seismology, Computational Geosciences, Intercultural Hazard Communication, Global Geophysics, Transitional Spanish, Volcanic Petrology, Convergent Plate Boundary Volcanism

*Field Work (2005-2007):* Peace Corps assignment at Fuego Volcano Observatory, Guatemala: use of ground-based remote sensing techniques to monitor active volcanism.

*(2008):* Seismic and infrasound installation and monitoring at Pacaya and Fuego volcanoes, Guatemala.

### **WORK EXPERIENCE**

2007-present, *Research Assistantship*, Michigan Technological University

2005-2007, *Peace Corps Development Specialist – Guatemala*, Joint program through U.S. Government and Michigan Technological University

2004, *Assistant Research Scientist*, Aqueous Geochemistry Laboratory, University of Idaho (UI)

2003-2004, *Assistant Research Scientist*, Institute of Mineralogy and Petrology, UI

2003, *Teaching Assistant*, Physical and Optical Mineralogy Laboratory, UI

2002-2003, *Teaching Assistant*, Geology 101 Laboratory, UI

2000-2002, *Geology Tutor*, Missouri State University

### **AWARDS AND PROFESSIONAL ACTIVITIES**

Graduate Student Representative to the Faculty, UI, 2003-2004.

American Geophysical Union Member, 2002-present.  
Geological Society of America Member, 2001-present.  
2003-2004 Norman M. Smith Award, University of Idaho.  
2003-2004 A.H. Featherstone Award, University of Idaho.  
2002-2003 A.H. Featherstone Award, University of Idaho.  
2002 O.R. Grawe Award for outstanding geology undergraduate, Missouri Association of Professional Geologists.

## **PUBLICATIONS**

### ***Articles***

1. Lyons, J., et al. (2007) Crustal growth by magmatic overplating in the Galapagos, *Geology (Boulder)*, **35**, 511-514.
2. Lyons, J.J. (2004) Petrology and geochemistry of ultramafic and mafic xenoliths, Floreana Island, Galapagos Archipelago: Implications for lithospheric evolution. *M.S. thesis*, University of Idaho, Moscow, Idaho, U.S.A., 81p.

### ***Abstracts***

1. Lyons, J.J., Johnson, J.B., Waite, G.P., Rose, W.I. (2007) Observations of Cyclic Strombolian Eruptive Behavior at Fuego Volcano, Guatemala Reflected in the Seismo-Acoustic Record, *Eos Transactions AGU*, **88**(52), Fall Meet. Suppl., Abstract V11C-0745.
2. Lyons, J.J., Bluth, G.J., Rose, W.I., Patrick, M., Johnson, J.B., Stix, J. (2007) Collaborative Monitoring and Hazard Mitigation at Fuego Volcano, Guatemala, *Eos Transactions AGU*, **88**(23), Jt. Assem. Suppl., Abstract V41A-08.
3. Lyons, J.J., Geist, D.G., Harpp, K.S. (2004) Petrogenesis of ultramafic xenoliths from Floreana Island, Galapagos Archipelago, Ecuador: Evidence for large-scale metamorphism and metasomatism. *Eos Transactions AGU*, **85**(17).
4. Geist, D., Lyons, J., and Harpp, K.S., (2004) Construction of the Galapagos Platform by Magmatic Overplating, *Eos Transactions AGU*, **85**(28), *West. Pac. Geophys. Meet. Suppl.*
5. Geist, D., Lyons, J., Harpp, K.S., and Diefenbach, B. (2004) The Evolution of Floreana Island, Galápagos Archipelago II: Evidence from Mafic and Ultramafic Xenoliths. *IAVCEI Abstracts with programs*.
6. Lyons, J.J. and Mickus, K.L. (2002) Gravity and magnetic study of the Dan River basin, Virginia. *GSA Abstracts with Programs*, *51<sup>st</sup> South-Central regional meeting*, **34**(2).

## **LANGUAGES**

English(1<sup>st</sup>) and Spanish.