

# Fang-Zhen Teng

Isotope Laboratory  
Department of Geosciences  
Arkansas Center for Space and Planetary Sciences  
University of Arkansas  
Fayetteville, AR, 72701, USA

Phone: (479) 575-4524  
Fax: (479) 575-3469  
Email: [fteng@uark.edu](mailto:fteng@uark.edu)  
[Http://comp.uark.edu/~fteng/](http://comp.uark.edu/~fteng/)  
Born: April 1978, Heilongjiang, China

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## Education

- 2005 Ph.D., Geochemistry, University of Maryland, College Park  
Dissertation: *Lithium isotopic systematics of the continental crust*  
Advisors: Drs. William F. McDonough and Roberta L. Rudnick
- 2001 B.S., Geochemistry, University of Science and Technology of China

## Research Interests

Study of the composition and evolution of the continental crust and the mantle using stable isotope systematics measured by multi-collector inductively coupled plasma mass spectrometry (MC-ICPMS).

## Professional Employment

- 2008 – present Assistant Professor, Dept. of Geosciences, Univ. of Arkansas, Fayetteville
- 2006 – 2007 Post-doc, Field Museum of Natural History and Univ. of Chicago
- 2001 – 2006 Research Assistant, Dept. of Geology, Univ. of Maryland, College Park

## Awards

- 2011 NSF CAREER award
- 2005 Best talk award, Ph.D. category, Dept. of Geology, Univ. of Maryland, College Park

## Peer-Reviewed Publications (\* students; \*\*postdoc)

1. Telus, M.\*, Dauphas, N., Moynier, F., **Teng, F.-Z.**, Nabelek, P. I., Craddock, P. R. and Groat, L. A. (2011) Iron, zinc and magnesium isotopic fractionation during continental crust differentiation: The tale from migmatites, granites and pegmatites. *Geochimica et Cosmochimica Acta*, in review.
2. Ling, M.-X.\*\*, Li, Y., Ding, X., **Teng, F.-Z.**, Fan, W., Xu, Y. and Sun, W. (2011) Destruction of the North China craton induced by ridge subductions. *Journal of Geology*, in review.
3. Yang, W., **Teng, F.-Z.**, Zhang H.-F. and Li, S. (2011) Magnesium isotopic systematics of continental basalts from the North China craton: Implications for tracing subducted carbonate in the mantle, *Chemical Geology*, in revision.
4. Ling, M.-X.\*\*, Sedaghatpour, F.\*, **Teng, F.-Z.**, Hays, P.D., Strauss, J. and Sun, W. (2011) Homogenous magnesium isotopic composition of seawater. *Rapid Communications in Mass Spectrometry*, 25, 2828-2836.
5. **Teng, F.-Z.**, Dauphas, N., Helz, R.T., Gao, S. and Huang, S. (2011) Diffusion-driven magnesium and iron isotope fractionation in Hawaiian olivine,, *Earth and Planetary Science Letters*, 308, 317-324.

6. Liu, S.-A.\*, **Teng, F.-Z.**, Yang, W. and Wu, F.-Y. (2011) High-temperature inter-mineral magnesium isotope fractionation in mantle xenoliths from the North China craton, *Earth and Planetary Science Letters*, 308, 131-140.
7. Li, W.-Y.\*\*\*, **Teng, F.-Z.**, Xiao, Y. and Huang, J. (2011) High-temperature equilibrium magnesium isotope fractionation between omphacite and garnet in eclogites, *Earth and Planetary Science Letters*, 304, 224-230.
8. Ke, S.\*\*\*, Liu, S.-A.\*, Li, W.-Y.\*\*\*, Yang, W. and **Teng, F.-Z.** (2011) Advances and application in magnesium isotope geochemistry (Invited review), *Acta Petrologica Sinica*, 27, 383-397 (in Chinese with English abstract).
9. **Teng, F.-Z.**, Li, W.-Y.\*\*\*, Rudnick, R. L. and Gardner, L. R. (2010) Contrasting behavior of lithium and magnesium isotope fractionation during continental weathering, *Earth and Planetary Science Letters*, 300, 63-71.
10. Li, W.-Y.\*\*\*, **Teng, F.-Z.**, Ke, S.\*\*\*, Rudnick, R. L., Gao, S., Wu, F.-Y. and Chappell, B. W. (2010) Heterogeneous magnesium isotopic composition of the upper continental crust, *Geochimica et Cosmochimica Acta*, 74, 6867-6884.
11. Liu, S.-A.\*, **Teng, F.-Z.**, He, Y., Ke, S.\*\*\* and Li, S. (2010) Investigation of magnesium isotope fractionation during granite differentiation: Implication for Mg isotopic composition of the continental crust, *Earth and Planetary Science Letters*, 297, 646-654.
12. **Teng, F.-Z.**, Li, W.-Y.\*\*\*, Ke, S.\*\*\*, Marty, B., Dauphas, N., Huang, S., Wu, F.-Y. and Pourmand, A. (2010) Magnesium isotopic composition of the Earth and chondrites. *Geochimica et Cosmochimica Acta*, 74, 4150-4166.
13. Dauphas, N., **Teng, F.-Z.** and Arndt, N. T. (2010) Magnesium and iron isotopes in 2.7 Ga Alexo komatiites: Mantle signatures, no evidence for Soret diffusion, and identification of diffusive transport in zoned olivine. *Geochimica et Cosmochimica Acta*, 74, 3274-3291.
14. Yang, W.\*\*\*, **Teng, F.-Z.** and Zhang H.-F. (2009) Chondritic magnesium isotopic composition of the terrestrial mantle: A case study of peridotite xenoliths from the North China craton, *Earth and Planetary Science Letters*, 288, 475-482.
15. Dauphas, N., Pourmand, A. and **Teng, F.-Z.** (2009) Routine isotopic analysis of iron by HR-MC-ICPMS: How precise and how accurate? , *Chemical Geology*, 267, 175-184
16. **Teng, F.-Z.**, Rudnick, R. L., McDonough, W.F. and Wu F.-Y. (2009) Lithium isotopic systematics of A-type granites and their mafic enclaves: Further constraints on the Li isotopic composition of the continental crust, *Chemical Geology*, 262, 415-424.
17. Richter, F. M., Dauphas, N. and **Teng, F.-Z.** (2009) Non-traditional fractionation of non-traditional isotopes: Evaporation, chemical diffusion and Soret diffusion, *Chemical Geology*, 258, 92-103.
18. **Teng, F.-Z.**, Dauphas, N. and Helz R. T. (2008) Iron isotope fractionation during magmatic differentiation in Kilauea Iki lava lake, *Science*, 320, 1620-1622. With a perspective titled "What drives iron isotope fractionation in magma" written by Weyer.
19. Richter, F. M., Watson, E. B., Mendybaev, R., **Teng, F.-Z.**, and Janney, P. (2008) Magnesium isotope fractionation in silicate melts by chemical and thermal diffusion, *Geochimica et Cosmochimica Acta*, 72, 206-220.
20. **Teng, F.-Z.**, Rudnick, R. L., McDonough, W.F., Gao, S., Tomascak, P.B. and Liu, Y.-S. (2008) Lithium isotopic composition and concentration of the deep continental crust, *Chemical Geology*, 255, 47-59.
21. **Teng, F.-Z.**, Wadhwa, M., and Helz R. T. (2007) Investigation of magnesium isotope fractionation during basalt differentiation: Implications for a chondritic composition of the terrestrial mantle, *Earth and Planetary Science Letters*, 261 (1-2), 84-92.

22. **Teng, F.-Z.**, McDonough, W. F., Rudnick, R. L. and Wing, B. A. (2007) Limited lithium isotopic fractionation during progressive metamorphic dehydration in metapelites: A case study from the Onawa contact aureole, Maine. *Chemical Geology*, 239, 1-12.
23. **Teng, F.-Z.**, McDonough, W. F., Rudnick, R. L. and Walker, R. J. (2006) Diffusion-driven extreme lithium isotopic fractionation in country rocks of the Tin Mountain pegmatite. *Earth and Planetary Science Letters*, 243 (3-4), 701-710.
24. **Teng, F.-Z.**, McDonough, W. F., Rudnick, R. L., Walker, R. J. and Sirbescu, M.-L. C. (2006) Lithium isotopic systematics of granites and pegmatites from the Black Hills, South Dakota. *American Mineralogist*, 91, 1488-1498.
25. **Teng, F.-Z.**, McDonough, W. F., Rudnick, R. L., Dalpé, C., Tomascak, P. B., Chappell, B. W. and Gao, S. (2004) Lithium isotopic composition and concentration of the upper continental crust, *Geochimica et Cosmochimica Acta*, 68(20), 4167-4178.

### Non-Peer-Reviewed Publications

1. **Teng, F.-Z.** (2011) High-temperature fractionation of non-traditional stable isotopes, *10000 Selected Problems in Sciences (in Chinese)*, 479-482.
2. **Teng, F.-Z.** (2005) Lithium isotopic systematics of the continental crust, *Ph.D. Dissertation*, University of Maryland, College Park, MD.

### Conference Abstracts

1. Dumond, G., Flowers, R. M., Gurrola, H., Keller, G. R., Liner, C. L., Mickus, K. L., Muller, P. A., Teng, F.-Z., Xie, X. and Zhou, H.-W. "ICON: A future Earthscope project resolving the 4D-record of incipient continental collision in the Ouachita orogen". GSA Annual Meeting, 2011.
2. Fantle, M. S. and **Teng, F.-Z.** "The Mg isotopic composition of marine pore fluids from ODP Site 807A (Ontong Java Plateau): Implications for the Mg chemistry of the ocean", Fall AGU 2011.
3. Huang, K.-J., **Teng, F.-Z.**, Ma, J.-L., Wei, G.-J. and Bao Z.-Y. "Magnesium isotope fractionation during extreme weathering of basalt controlled by clay mineral formation", Fall AGU 2011.
4. Liu, X.-M., Rudnick, R. L., McDonough, W. F., **Teng, F.-Z.** and Cummings, M. "Behavior of lithium and magnesium isotopes during extreme weathering of the Columbia River Basalts", Fall AGU 2011.
5. **Teng, F.-Z.**, Li, W.-Y. and Liu, S.-A. "New insights into mantle and crustal processes from high-temperature magnesium isotope fractionation", 21<sup>th</sup> Annual V. M. Goldschmidt Conference, 2011.
6. Sio, C. K., Dauphas, N., **Teng, F.-Z.**, Chaussidon, M., Helz, R. T. and Xiao, Y. "In-situ Fe-Mg isotopic analysis of zoned olivine", 21<sup>th</sup> Annual V. M. Goldschmidt Conference, 2011.
7. **Teng, F.-Z.**, Dauphas, N., Huang, S. and Helz, R.T. "A new petrogenetic tool based on kinetic isotope fractionation associated with Mg-Fe interdiffusion in olivine", LPSC, 2011.
8. Gordon, S., Hanley, J., Chevrier, V. F. and **Teng, F.-Z.** "Isotope fractionation of magnesium chloride during crystallization: Applications to Mars", LPSC 2011
9. **Teng, F.-Z.**, Li, W., Rudnick, R. L. and Gardner, L. R. "Contrasting lithium and magnesium isotope fractionation during continental weathering". Fall AGU 2010.
10. Sedaghatpour, F. and **Teng, F.-Z.** "Magnesium isotopic composition of the Moon", *Meteoritics & Planetary Science*, 45 A186.
11. Yang, W., **Teng, F.-Z.** and Zhang H.-F. "Magnesium isotopic composition of continental basalts", Fall AGU 2010.

12. **Teng, F.-Z.**, Dauphas, N., Huang, S. and Helz, R.T. “Diffusion-driven kinetic magnesium and iron isotope fractionation in Hawaiian basalts and olivines”, 20<sup>th</sup> Annual V. M. Goldschmidt Conference, 2010.
13. Sedaghatpour, F. and **Teng, F.-Z.** “Magnesium isotopic composition of the Moon”, 20<sup>th</sup> Annual V. M. Goldschmidt Conference, 2010.
14. Li, W.-Y., **Teng, F.-Z.**, Xiao, Y. and Huang, J. “Mantle-like magnesium isotopic composition of orogenic eclogites from the Dabie-Sulu UHPM belt, China”, 20<sup>th</sup> Annual V. M. Goldschmidt Conference, 2010.
15. Liu, S.-A., **Teng, F.-Z.**, Li, S.-G., He, Y.-S. and Ke, S. “The investigation of magnesium isotope fractionation during granite differentiation”, 20<sup>th</sup> Annual V. M. Goldschmidt Conference, 2010.
16. Ke, S, **Teng, F.-Z.**, Mo, X. X. and Luo Z. H. “Magnesium isotopic composition of A-type granites from NW India-Asia collision zone, Xinjiang, China”, 20<sup>th</sup> Annual V. M. Goldschmidt Conference, 2010.
17. Dauphas N. and **Teng, F.-Z.** “Isotopic effects from diffusive transport in zoned metal and olivine”, 20<sup>th</sup> Annual V. M. Goldschmidt Conference, 2010.
18. **Teng, F.-Z.**, Ke, S., Marty, B., Dauphas, N., Huang, S. and Pourmand, A. “The magnesium isotopic composition of the Earth and chondrites”, LPSC, 2010.
19. Li, W.-Y., **Teng, F.-Z.**, Ke, S. “Heterogeneous magnesium isotopic composition of the upper continental crust and Mg isotope fractionation during continental weathering”, National Symposium on Petrology and Geodynamics, China, 2010.
20. Yang, W., **Teng, F.-Z.** and Zhang H.-F. “Magnesium isotopic composition of continental basalts”, National Symposium on Petrology and Geodynamics, China, 2010.
21. Ke, S., **Teng, F.-Z.** and Walker, R. J. “Magnesium isotope fractionation during differentiation of Harney Peak granite”, Fall AGU 2009.
22. Li, W., **Teng, F.-Z.**, Ke, S., Rudnick, R. L., Gao, S., Wu, F.-Y. and Chappell, B. W. “Magnesium isotopic composition of the upper continental crust”, Fall AGU 2009.
23. **Teng, F.-Z.**, Li, W., Ke, S., Marty, B., Huang, S., Dauphas, N., Wu, F.-Y. and Helz, R.T. “Magnesium isotopic composition of the mantle”. Fall AGU 2009.
24. Yang, W., **Teng, F.-Z.** and Zhang H.-F. “Chondritic magnesium isotopic composition of the terrestrial mantle: A case study of peridotite xenoliths from the North China craton”, Fall AGU 2009.
25. **Teng, F.-Z.**, Rudnick, R. L., McDonough, W.F., Gao, S., Tomascak, P.B. and Liu, Y.-S. “Lithium in the deep continental crust”, Fall AGU 2008.
26. Richter, F. M., **Teng, F. Z.**, Mendybaev, R. A., Davis, A. M. and Georg, R. B. “Elemental and isotope fractionation of CAI-like liquids by evaporation in low pressure H<sub>2</sub>”, LPSC, 2008.
27. **Teng, F.-Z.** “Lithium, magnesium and iron isotopic composition of the Moon”, NLSC 2008.
28. **Teng, F.-Z.**, Dauphas, N. and Helz R. T “Iron isotope fractionation during magmatic differentiation”, 7<sup>th</sup> International SF-ICP-MS Meeting, 2008 (*Invited*).
29. **Teng, F.-Z.** “High-temperature lithium isotope fractionation”, Spring AGU, 2008 (*Invited*).
30. **Teng, F.-Z.**, Dauphas, N. and Helz R. T. “Iron isotope fractionation during planetary differentiation”, LPSC, 2008.
31. Rudnick, R. L., McDonough, W. F., **Teng, F.-Z.** and Marks, M. A. “Fluid-rock interactions recorded by kinetic fractionation of Li isotopes”. 17<sup>th</sup> Annual V. M. Goldschmidt Conference, 2007.
32. **Teng, F.-Z.**, Dauphas, N. and Helz R. T. “Redox-controlled iron isotope fractionation during basalt differentiation?”, Fall AGU, 2007.
33. **Teng, F.-Z.**, Wadhwa, M., Helz, R. T. and Richter, F. M. “The absence of magnesium isotope fractionation during basalt differentiation”. 17<sup>th</sup> Annual V. M. Goldschmidt Conference, 2007.

34. **Teng, F.-Z.**, Wadhwa, M., Janney, P. E., Grossman, L., Simon, S. and Dauphas, N. "Magnesium isotopic systematics of chondrules and CAIs from Allende, Murchison, Murray and Bjurböle", LPSC, 2007.
35. McDonough, W.F., **Teng, F.-Z.**, Rudnick, R. L. and Ash, R. D. "Lithium isotopic analyses of chondrites and chondrules", LPSC, 2006.
36. Rudnick, R.L., **Teng, F.-Z.**, Aulbach, S., Halama, R., Ionov, D., Marks, M., McDonough, W. F., Tomascak, P. and Zack, T. "Tracing crust-mantle recycling with Li isotopes, Fall AGU, 2006.
37. **Teng, F.-Z.**, McDonough, W. F. and Rudnick, R. L. "Diffusion-driven lithium isotope fractionation: models and implications", 16<sup>th</sup> Annual V. M. Goldschmidt Conference, 2006.
38. **Teng, F.-Z.**, McDonough, W.F., Rudnick, R.L. and Walker, R.J. "Lithium isotopic fractionation in pegmatites", 15<sup>th</sup> Annual V. M. Goldschmidt Conference, 2005.
39. **Teng, F.-Z.**, McDonough, W.F., Rudnick, R.L. and Gao, S. "Lithium isotopic composition of the deep crust", Fall AGU, 2004.
40. McDonough, W.F., **Teng, F.-Z.**, Tomascak, P. B., Ash, R. D., Grossman, J. N. and Rudnick, R. L. "Lithium isotopic composition of chondritic meteorites", LPSC., 2003.
41. **Teng, F.-Z.**, McDonough, W.F., Rudnick, R.L., Tomascak, P. B. and Saal, A. E. "Lithium isotopic composition of the lower continental crust: A xenolith perspective", Fall AGU, 2003.
42. McDonough, W.F., **Teng, F.-Z.**, Rudnick, R. L. Dalpé, C. and Tomascak, P. B. "Lithium isotopic measurements: MS technique and results for Reference Materials. 3<sup>rd</sup> International Conference on High Resolution Sector Field ICP-MS, 2002.
43. **Teng, F.-Z.**, McDonough, W.F., Rudnick, R.L., Tomascak, P.B. and Dalpé, C. "Lithium content and isotopic composition of the upper continental crust", Fall AGU, 2002.

### Professional Service

Session convener on "Recent advances in non-traditional isotope geochemistry", Fall AGU, 2009  
 Workshop leader, "MC-ICP-MS theory and practical implications" 7<sup>th</sup> International Sector Field ICP-MS Meeting, 2008  
 Session convener on "Recent advances in lithium isotope geochemistry", Fall AGU, 2008  
 Reviewer: Textbook proposal "Geochemistry" by William M. White, NSF proposals, NASA postdoc proposals and NASA proposal; manuscripts for *Science*, *Nature Geoscience*, *Earth and Planetary Science Letters*, *Geochimica et Cosmochimica Acta*, *Geology*, *Chemical Geology*, *Treatise on Geochemistry*, *Contributions to Mineralogy and Petrology*, *Lithos*, *Geological Journal*, *Journal of Analytical Atomic Spectrometry*, *Journal of Geosciences* and *Acta Petrologica Sinica*

### Invited Talks

09/2011 University of Texas, El Paso  
 06/2011 University of Science and Technology of China  
 06/2011 China University of Geosciences, Beijing  
 03/2011 University of Nebraska, Lincoln  
 11/2010 University of Tulsa  
 05/2010 Guangzhou Institute of Geochemistry, Chinese Academy of Sciences  
 04/2010 Woods Hole Oceanographic Institution  
 05/2009 Scripps Institute of Oceanography  
 03/2009 Louisiana State University  
 09/2008 7<sup>th</sup> International Sector Field ICP-MS Meeting  
 06/2008 University of Science and Technology of China  
 05/2008 Spring AGU

04/2008 Louisiana State University  
06/2007 Institute of Geology and Geophysics, Chinese Academy of Sciences  
12/2006 University of Illinois at Urbana-Champaign  
09/2006 The University of Chicago  
11/2005 The Field Museum of Natural History, Chicago  
6/2004 University of Science and Technology of China  
6/2004 Institute of Geology and Geophysics, Chinese Academy of Sciences

## **Funding**

NSF-EAR, “CAREER: Studies of magnesium isotope geochemistry”, \$458,928,  
sole PI. Duration: May 2011 – April 2016.  
NSF-EAR, “Magnesium isotopic investigations of oceanic basalts and olivines”, \$175,022,  
sole PI. Duration: February 2009 – January 2012.  
Arkansas Space Grant Consortium, “Magnesium and iron isotopic investigation of lunar samples”,  
\$11,400, sole PI. Duration: April 2010 – April 2011.  
Natural Science Foundation of China, “Lithium and magnesium isotopic studies of adakitic rocks from  
North China craton”, ~\$14,500, co-PI. Duration: January 2009 – December 2012.  
Natural Science Foundation of China, “Investigations of olivine zoning in Kilauea Iki lavas”, ~\$14,500,  
co-PI. Duration: February 2009 – January 2011.

## **Teaching Experience**

University of Arkansas, Fayetteville  
Geol 2313: *Minerals and Rocks*, Fall semester  
Geol 4063: *Principles of Geochemistry*, Spring semester  
Geol 560V: *Non-Traditional Isotope Geochemistry*, Fall semester  
SPAC 5413: *Planetary Geology*, Spring semester

University of Maryland, College Park  
Geol 100 *Introduction to Physical Geology* (TA), Fall 2005

## **Research Advisees**

### **At University of Arkansas**

#### Postdoc visitors

1. Dr. Shan, Ke, lecturer of School of Earth Science and Mineral Resources, China University of Geosciences, visiting scholar at the Univ. of Arkansas, 6/2009-7/2010
2. Dr. Wang-Ye Li, postdoc researcher of School of Earth and Space Sciences, University of Science and Technology of China, visiting scholar at the Univ. of Arkansas, 3/2009-10/2009; 4/2010-8/2010
3. Dr. Ming-Xing Ling, postdoc researcher of Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, visiting scholar at the Univ. of Arkansas, 10/2010-4/2011
4. Dr. Yan Xiao, postdoc researcher of Institute of Geology and Geophysics, Chinese Academy of Sciences, visiting scholar at the Univ. of Arkansas, 12/2010-5/2011
5. Dr. Wei Yang, postdoc researcher of Institute of Geology and Geophysics, Chinese Academy of Sciences, visiting scholar at the Univ. of Arkansas, 9/2008-12/2008; 3/2010-6/2010

#### PhD students

1. Fatemeh Sedaghatpour, SPAC program, Fall 2009 - present

2. Johnnie Chamberlin, ENDY program, Fall 2011 - present

#### PhD exchange students

1. Sheng-Ao Liu, PhD exchange student, Univ. of Sci. & Tech. of China, 9/2009 – 9/2010
2. Kang-Jun Huang, PhD exchange student, China Univ. of Geosciences, 3/2011-11/2012

#### PhD student visitors

1. Yan Hu, PhD student from Institute of Geology and Geophysics, Chinese Academy of Sciences, 4/2011-8/2011.
2. Corliss Sio, PhD student, Department of Geophysical Sciences, University of Chicago, 4/2011-5/2011
3. Xiaoming Liu, PhD student, Department of Geology, University of Maryland, 5/2011-6/2011

#### Master students

1. Jeff L. Ward, Geosciences, 2008 - 2001
2. Eric Grulke, Geosciences, summer intern, 2009
3. Julie Jacobs, Geosciences, summer intern, 2010
4. Leiaka Welcome, Geosciences, summer intern, 2010
5. Eben Jones, Geosciences, summer intern, 2011
6. Elvis Bello, Geosciences, summer intern, 2011

#### Undergraduate students

1. Kaia Mattioli, undergraduate of Stanford University, summer intern, 2008
2. Misty Trinkle, undergraduate of Univ. of Arkansas, 8/2009 – 12/2009
3. Colin Brooks, undergraduate of Univ. of Arkansas, 6/2009 - 5/2010
4. Dale Stendel, undergraduate of Univ. of Arkansas, 6/2010 – 10/2010
5. Anna Rouse, undergraduate of Univ. of Arkansas, 7/2010 – 10/2010
6. Chven Mitchell, undergraduate of Univ. of Arkansas, 8/2010 –11/2010
7. Oanh H. Nguyen, undergraduate of Univ. of Arkansas, 8/2009 – 12/2010
8. Crystal Countee, undergraduate of Univ. of Arkansas, 8/2010 – 12/2010
9. Grant Scarsdale, undergraduate of Univ. of Arkansas, 9/2010 – 12/2010
10. Addie Clark, undergraduate of Emory & Henry College, REU 2010
11. Suzi Gordon, undergraduate of Florida Institute of Technology, REU 2010
12. Brendan Clement, undergraduate of Keene State College, REU 2011
13. Debra Davis, undergraduate of Univ. of Arkansas, 9/2010 – 5/2011
14. Anthonini Francaviglia, undergraduate of Univ. of Arkansas, 9/2010 – 5/2011
15. Clara Kirk, undergraduate of Univ. of Arkansas, 9/2010 – 5/2011
16. Debra A. Wallace, undergraduate of Univ. of Arkansas, 8/2009 - present
17. David Nance, undergraduate of Univ. of Arkansas, 8/2010 – present
18. Janvier Kwizera, undergraduate of Univ. of Arkansas, 10/2010 – present
19. Melissa Hornick, undergraduate of Univ. of Arkansas, 9/2011 – present
20. Gabby Salinas, undergraduate of Univ. of Arkansas, 9/2011 – present

#### **At University of Chicago**

Myriam Alexandre, undergraduate, co-advised w/ Nicolas Dauphas at the Univ. of Chicago

#### **At University of Maryland**

Elena Chung, undergraduate, co-advised w/ Roberta Rudnick at the Univ. of Maryland  
Dusty Aeiker, undergraduate, co-advised w/ Bill McDonough at the Univ. of Maryland

### **Graduate and post-doctoral advisors**

Drs. W. F. McDonough and R. L. Rudnick – PhD supervisors, Univ. of Maryland, College Park  
Dr. M. Wadhwa – Post-doctoral supervisor, Field Museum (now at Arizona State University)  
Drs. F. M. Richter and N. Dauphas – Post-doctoral supervisors, The University of Chicago

### **Collaborators during the past three years**

Sue Brantley (Penn. State Univ.); Bruce Chappell (Macquarie University); Shan Gao, Shan Ke and Xuan-Xue Mo (China University of Geosciences); Rosalind Helz (USGS); Shichun Huang (Harvard University); Shuguang Li, Yilin Xiao and Wangye Li (University of Science and Technology of China); Bernhard Peucker-Ehrenbrink (WHOI); Terry Plank (Columbia Univ.); Rich Walker (University of Maryland, College Park); Fu-Yuan Wu, Hongfu Zhang, Yan Xiao & Wei Yang (Institute of Geology and Geophysics, CAS)

### **Memberships in Professional Societies**

American Geophysical Union; Geochemical Society; Mineralogical Society of America