

# ELIZABETH COTTRELL

(Married & Legal Name: Elizabeth Stevenson)

Smithsonian Institution, National Museum of Natural History  
MRC 119 –Mineral Sciences, PO Box 37012, Washington, D.C.20013-7012  
phone: 202.633.1859 ▪ email: cottrelle ‘at’ si ‘dot’ edu  
▪ <http://mineralsciences.si.edu/staff/pages/cottrell.htm>▪Nationality: U.S. Citizen

---

## EDUCATION

- Ph.D. Columbia University, at Lamont Doherty Earth Observatory 2004  
Department of Earth and Environmental Sciences  
Dissertation: *Differentiation of the Earth from the Bottom Up: Core, Mantle and Crust*  
Advisors: David Walker, Charles Langmuir, and Marc Spiegelman
- Sc.B. Brown University, Geological Sciences, Geochemistry with Honors 1997  
Thesis: *Petrologic and experimental evidence for the movement and heating of the pre-eruptive Minoan rhyodacite (Santorini, Greece)*; Advisor: Malcom Rutherford
- 

## POSITIONS HELD

- 2007-  
present **Curator/Research Geologist and Director of the Global Volcanism Program**  
*Department of Mineral Sciences, National Museum of Natural History, Smithsonian Institution, Washington, D.C.*  
**Visiting Scientist** *Carnegie Institution of Washington, Washington, D.C.*  
**Adjunct Faculty**, *University of Maryland, College Park, MD*
- 2005-2006 **Postdoctoral Fellow**, *Carnegie Institution of Washington, Geophysical Lab*
- 2004-2005 **Columbia Science Fellow**, *Columbia University*  
Designed and taught a new course, *Frontiers of Science*, in its inaugural year as part of the Columbia University Core Curriculum. University appointment at the level of **Lecturer and Postdoctoral Fellow**.  
**Postdoctoral Research Scientist**, *Lamont Doherty Earth Observatory*
- 2004 **AAUW Dissertation Fellow**, American Association of University Women, *Columbia University, Lamont Doherty Earth Observatory*
- 1998-2003 **NSF Graduate Research Fellow**, *Columbia University, Lamont Doherty Earth Observatory*
- 1997-1998 **Fulbright Scholar**, *L’Institute du Physique du Globe, University of Paris VII*  
Marginal Stability of Layered Miscible Fluids, Advisor: Claude Jaupart

---

### HONORS, AWARDS, & FELLOWSHIPS

- 2005 Carnegie Postdoctoral Fellowship, *Carnegie Institution of Washington, Geophysical Lab*
- 2004 Columbia Science Fellowship, *Columbia University*
- 2003 American Association of University Women Educational Foundation Dissertation Fellowship
- 1998-2002 National Science Foundation Graduate Research Fellowship
- 1997-1998 Fulbright Fellowship (Paris, France)
- 1997 Anna Crosby Emery Prize – merit prize for a graduating woman (declined), *Brown University*
- 1997 Outstanding Student Award – Geological Sciences, *Brown University*
- 1997 Columbia University Fellowship (declined), *Columbia University*
- 1996-1997 NASA Rhode Island Space Grant Fellowship
- 1996 Society of Royce Fellows Research Fellowship, *Brown University*
- 1996 Research Experience for Undergraduates Grant, *Brown University*
- 1995 Undergraduate Research and Teaching Assistantship, *Brown University*
- 1993 Department of Energy Honors Program, Representative for the State of Vermont, National Synchrotron Light Source, Brookhaven National Laboratory, Brookhaven, NY.

---

### SELECTED PROFESSIONAL SERVICE & MENTORING – LAST 5 YEARS ONLY

- 2010-present NSF-REU Program co-Director, Natural History Research Experiences, Research Experience for Undergraduates. NMNH.
- 2010-2011 Featured Scientist, Smithsonian-MIT “Vanished,” an 8-week online/offline mystery game for middle-school children, meant to inspire engagement and problem solving through science. <http://vanished.mit.edu>.
- 2010-2011 Instructor in a four-part video series to teach geology to middle-school-aged children nationally in partnership with the National Science Resources Center
- 2010-2011 Program Committee Chair, Geological Society of Washington
- 2008 Co-convenor, 2008 Goldschmidt Conference, Session 07c: Partitioning Among Melts, Metals, and Minerals in Planetary Systems
- 2003-present Referee for academic journals: *Geochimica et Cosmochimica Acta*, *Earth and Planetary Science Letters*, *Contributions to Mineralogy and Petrology*, *American Mineralogist*, *Nature Geoscience*
- 2007-2009 Council Member, Geological Society of Washington
- 2003-present Proposal Referee for the National Science Foundation, Division of Earth Sciences (EAR), Natural Environmental Research Council (NERC), and for NASA (Cosmochemistry).
- 2007 NSF Earth Sciences Proposal Review Panelist
- 2007 Smithsonian Future Female Scientists Program: Mentor / Participant
- 2006 Co-convenor, AGU special session: Evolution of the Early Earth (2006 Joint Assembly)

2005 Faculty advisor/mentor for undergraduate scientific journal club, *Columbia University*.  
1999-2005 Committee on Women's Issues, *Columbia University*

---

#### PROFESSIONAL SOCIETIES

American Geophysical Union ▪ Geochemical Society ▪ Sigma Xi ▪ American Association of University Women ▪ Society of Royce Fellows ▪ Geological Society of Washington (Council Member 2007-2008; Judging Committee 2006; Program Committee Chair 2010-2011)

---

#### FUNDING

2011 Sloan Foundation, Deep Carbon Observatory, The Carbon Inventory of Oceanic Basalts and the Oceanic Upper Mantle (w/ K. Kelley URI/GSO and E. Hauri DTM/CIW), 2 years, \$93,000  
2011 NSF EAR-640248, NSF REU Site: Natural History Research Experiences, 5 years, 2011-2016, \$902,000  
2010 Smithsonian Under Secretary for Science Endowment Grant, "Carbon in the Deep Earth," 1 year, \$43,600  
2010 NSF EAR-1030602 (REU supplement): \$6,000  
2010 NMNH Program Award: "The New Global Volcanism Program: Using Geoinformatics to Create Opportunities for Discovery." \$420,000. (\$70,000/yr for six years.)  
2009 EAR-0841006, MARGINS: Collaborative Research: The Oxidation State of Mariana Arc Magmas and its Relationship to Subduction Volatile and Mass Cycling, (w/ K. Kelley, URI/GSO), 3 years 2009-2011. \$82,242.00  
2008 Smithsonian Scholarly Studies Grant: The oxidation state of the Earth through the lens of volcanic glass. 2 years beginning 1/1/2009 \$58,000  
2007 EAR-0738654, Collaborative Research: Chemistry of the Earth's Deep Interior, (w/ Y. Fei and E. Hauri), 2008-2010. \$72,766  
2007 Smithsonian Under Secretary for Science Endowment Grant, \$39,200

---

#### REFEREED JOURNAL ARTICLES

**Cottrell E.**, Kelley K.A. "The oxidation state of Fe in MORB glasses and the oxygen fugacity of the upper mantle." *Earth and Planetary Science Letters* 305, pp 270-282, 2011.  
Castro, J.M., **Cottrell, E.**, Tuffen, H., Logan, A., and Kelley, K.A. "Spherulite crystallization buffers Fe-oxidation in silicic melt," *Chemical Geology* 268, 272–280, 2009.  
**Cottrell E.**, Kelley K.A., Lanzirotti A., Fischer R.A. "High-Precision Determination of Iron Oxidation State in Silicate Glasses Using XANES." *Chemical Geology* 268, 167–179, 2009.  
Kelley, K.A. and **Cottrell E.**, "Water and the Oxidation State of Subduction Zone Magmas." *Science*, vol 325 no 5940, pp. 605-607, 2009  
**Cottrell E.** Walter, M.J., and Walker D., "Metal-silicate partitioning of tungsten at high pressure and temperature: implications for equilibrium core formation in Earth." *Earth and Planetary Science*

*Letters*. 281 (3-4), pp 275-287, 2009

- N. Chabot, A.J. Campbell, W.F. McDonough, D.S. Draper, C.B. Agee, M. Humayun, H.C. Watson, **E. Cottrell**, and S. Saslow. "The Fe-C system at Pressure and Implications for the Earth's Core," *Geochimica et Cosmochimica Acta*, 72, p. 4146-4158. DOI: 10.1016/j.gca.2008.06.006, 2008
- Jaupart C., Molnar P., and **Cottrell E.** "Instability of a chemically dense layer heated from below and overlain by a deep less viscous fluid," *Journal of Fluid Mechanics*, Volume 572, Issue -1, Feb 2007, pp 433-469
- Cottrell E.** and Walker D., "Constraints on Core Formation from Pt partitioning in Mafic Silicate Liquids at High Temperatures." *Geochimica et Cosmochimica Acta*, 70 (6), p. 1565-1580. 2006.
- Cottrell E.**, Jaupart, C., and Molnar P., "Marginal stability of thick continental lithosphere." *Geophys. Res. Lett.*, 31, L18612, doi:10/1029/3004GL020332, 2004.
- Cottrell E.**, Spiegelman M., Langmuir CH., "Consequences of diffusive reequilibration for the interpretation of melt inclusions." *Geochem Geophys Geosy* 3: art. no. 1026 May 3 2002.
- Cottrell E.**, Gardner J., and Rutherford M.J., "Petrologic and experimental evidence for the movement and heating of the pre-eruptive Minoan rhyodacite (Santorini, Greece)." *Contrib. Min. Petrol.* 135; 4, p.315-337. 1999

---

#### ABSTRACTS & UNREFEREED PUBLICATIONS

(STUDENTS IN ITALICS)

- Kelley, K.A., and **Cottrell, E.**, "Importance of oxygen fugacity for temperatures and melting regimes beneath ridges, arcs, and hot spots." Fall Meeting of the American Geophysical Union, 2011. **INVITED.**
- Seagle, C.T., **Cottrell, E.**, Fei, Y., Hummer, D., Prakenpenka V., "Electrical and Thermal Conductivity of Iron and Iron-Silicon Alloy at High Pressures." Fall Meeting of the American Geophysical Union, 2011. **INVITED.**
- Cottrell, E.**, Andrews, B., Sorensen S.S., Hale, L.J., "Digital Management and Curation of the National Rock and Ore Collections at NMNH, Smithsonian." Fall Meeting of the American Geophysical Union, 2011. **INVITED.**
- †*Brounce M.N.*, Kelley K, and **Cottrell E** "Effect of differentiation on Fe oxidation in arc basalts." *Geochimica et Cosmochimica Acta Suppl. Goldschmidt Conference Abstracts*. 2011.
- †*Ruth, D. C. Sweeney.*, Cortes, J.A., **Cottrell, E.**, Calder, E.S., Valentine, G.A., "Geochemical and textural comparison of two different scoria erupted from Llaima volcano, Chile." Fall Meeting of the American Geophysical Union, 2010.
- †*Jackson, C.M.*, **Cottrell E.**, and Kelley, K.A., "Mineral-melt partitioning of V and Sc at arcs: implications for mantle wedge oxygen fugacity." Fall Meeting of the American Geophysical Union, V11F-01, 2010.
- Cottrell, E.**, Siebert, L., Kimberly, P. "The Future of Smithsonian's Global Volcanism Program." Fall Meeting of the American Geophysical Union, V43E-04, 2010. **INVITED.**
- Kelley, K.A. and **Cottrell, E.**, "Redox Conditions of Subduction Zone Magmas and Mantle," Fall Meeting of the American Geophysical Union, V11F-03, 2010. **INVITED.**
- †*Brounce M.N.*, Kelley, K.A., and **Cottrell E.**, "Variations in Fe oxidation state at arc volcanoes driven by degassing and crystallization." Fall Meeting of the American Geophysical Union, V43A-2333,

2010.

- Seagle, C. T., **Cottrell E.**, and Fei Y., “Equilibrium between solid and liquid iron: The Fe-Si-O system at high pressures,” Fall Meeting of the American Geophysical Union, 2010.
- †*Brounce M.N.*, Kelley, K.A., and **Cottrell E.**, “Variations in Fe oxidation state at arc volcanoes driven by degassing and crystallization.” Fall Meeting of the American Geophysical Union, 2010.
- Seagle, C. T., **Cottrell E.**, and Fei Y., “Experimental Investigation of the Fe-Si-O System at High Pressures,” International Mineralogical Association Meeting 2010
- Seagle, C. T., **Cottrell E.**, and Fei Y., “Experimental Investigation of the Fe-Si-O System at High Pressures,” COMPRES Annual Meeting 2010
- Cottrell E.** and Kelley K.A. “Basaltic glasses as records of mantle oxygen fugacity.” **KEYNOTE.** *Geochimica et Cosmochimica Acta Suppl. Goldschmidt Conference Abstracts.* 2010.
- Kelley K., **Cottrell E.**, †*Brounce M & Parks B.*, “The Influence of Magmatic Differentiation on the Oxidation State of Fe in Arc Magmas.” **INVITED.** *Geochimica et Cosmochimica Acta Suppl. Goldschmidt Conference Abstracts.* 2010.
- Plank T, Zimmer M, **Cottrell E & Kelley K.**, “The Oxidation State of Magmas from Melt Inclusions and Olivine Hosts.” *Geochimica et Cosmochimica Acta Suppl. Goldschmidt Conference Abstracts.* 2010.
- †*Posner, E.*, **Cottrell, E.**, Kelley K.A., *Parks B., Ruebush E.* “Micro XANES determination of Fe oxidation state in MORB and its relationship to water content.” *EOS Trans.* V11D-1983. 2009.
- Cottrell E.** and Walter M.J. “Monte Carlo Error Analysis Applied to Core Formation: The Single-stage Model Revived.” *EOS Trans.* V13C-2046. 2009
- †*Parks B.H.* Kelley K.A. **Cottrell E.**, †*Posner E.S.* “The Influence of Cooling History on the Redox Conditions of Subduction Zone Magmas.” *EOS Trans.* V11D-1982. 2009.
- Whitaker, S, Reaman, D M, Kabbes, J E, Piggott, J S, Hovis, G L, Campbell, A J, **Cottrell, E**, Panero, W R. “High-Pressure Electronic Transitions: Might Rb And K Be Compatible With Iron at High Pressure?” CDAC Winter Workshop, 2009.
- Kelley, K.A. and **Cottrell, E.** “The Oxidation State of Global Subduction Zone Basalts and its Relationship to Volatiles, Magmatic Processes, and Source Composition.” **INVITED.** *EOS Trans.* V33E-01. 2008.
- Cottrell, E.**, and Kelley K.A. “Detecting and Correcting Melt Inclusion Modification.” **INVITED.** *EOS Trans.* V13F-02. 2008.
- Whitaker S, Reaman D M, Kabbes J E, Hovis G L, Campbell A J, **Cottrell E**, Panero, W R., “Could K and Rb be in Earth's Core?” *EOS Trans.* DI43A-1768. 2008.
- Cottrell, E.**, Y. Fei, A. Ricolleau, and V. Prakapenka. 2008. Obtaining D-Ni(Met/Sil). *Geochimica Et Cosmochimica Acta* 72(12): A183-A183. **INVITED**
- Ricolleau, A., Y. Fei, **E. Cottrell**, H. Watson, L. Zhang, G. Fiquet, A. Auzende, M. Roskosz, G. Morard, and V. Prakapenka. 2008. New Constraints on the Pyrolitic Model Under Lower Mantle Conditions. *Geochimica Et Cosmochimica Acta* 72(12): A795-A795.
- E. Cottrell**, M.J. Walter, and D. Walker, “W Partitioning Between Liquid Metal and Liquid Silicate as a Function of P, T, fO<sub>2</sub>, X<sub>carbon</sub>, and melt structure: Implications for the Earth, Moon, Mars, and Vesta.” *Proceedings of the 39th Annual LPSC.* Abs no.2238. 2008.
- E. Cottrell**, Fei Y. Ricolleau A. Prakapenka V. “Nickel Partitioning Between Liquid Metal and Liquid Silicate in the LHDAC: Techniques for Achieving Reliable Partition Coefficients.” *Proceedings of the 39th Annual LPSC.* Abs no. 2267, 2008.
- N. Chabot, A.J. Campbell, W.F. McDonough, D.S. Draper, C.B. Agee, M. Humayun, H.C. Watson, **E. Cottrell**, and S. Saslow. “The Fe-C system at Pressure and Implications for the Earth’s Core.” *Proceedings of the 39th Annual LPSC.* Abs no. 1284, 2008.

- E. Cottrell** and D. Walker, "PtFe Nano and Micro-Nuggets in Experimental Silicate Glasses." **INVITED**. EOS Trans. AGU, Fall Meet. Suppl., 2007. Abstract V22B-01.
- E. Cottrell**, K. Kelley, and R. Fischer, "New micro-XANES determinations of Fe speciation as a proxy for oxidation state of global MORB and arc magmas." EOS Trans. AGU, Fall Meet. Suppl., 2007. Abstract DI43A-07.
- K. Kelley, **E. Cottrell**, and R. Fischer, "Water and the Oxidation State of Global Arc and MORB Magmas." EOS Trans. AGU, Fall Meet. Suppl., 2007. Abstract DI33A-1118.
- †**R. Fischer**, **E. Cottrell**, A. Lanzirotti, and K. Kelley, "Micro-XANES determinations of Fe speciation in natural basalts at mantle-relevant  $fO_2$ ." EOS Trans. AGU, Fall Meet. Suppl., 2007. Abstract DI33A-1119.
- Y. Fei, A. Ricolleau, **E. Cottrell**, L. Zhang, A. Corgne, Y. Wang, T. Komabayashi, N. Sata, V. Prakapenka, Y. Meng, "Spin transition and equation of state of ferroperricite at high temperature: Implications for density model of the lower mantle." EOS Trans. AGU, Fall Meet. Suppl., 2007.
- J. Castro, P. Beck, **E. Cottrell**, and H. Tuffen, "Spherulites record crystallization, degassing, and oxidation-reduction mechanisms in obsidian flows." **INVITED**. EOS Trans. AGU, Fall Meet. Suppl., 2007. Abstract V14A-07.
- A. Ricolleau, Y. Fei, **E. Cottrell**, H. Watson, L. Deng, L. Zhang, G. Fiquet, A. Auzende, M. Roskosz, G. Morard, V. Prakapenka, "New constraints on the pyrolytic model: in situ x-ray diffraction measurements on KLB-1 peridotite under the lower mantle conditions." EOS Trans. AGU, Fall Meet. Suppl., 2007.
- Cottrell E.** Fei Y., Ricolleau A., Prakapenka V., "Experimental Petrology in the LHDAC." COMPRES Annual Meeting, June 2007.
- Ricolleau A., Fei Y., **Cottrell E.**, Corgne A., Wang Y., Roskosz M., and Prakapenka V., "In-Situ X-Ray Diffraction Measurements of Ferroperricite up to 110 GPa and 2000K." EOS Trans. AGU, 87(52) Fall Meet. Suppl., 2006. Abstract MR11A-0103, 2006.
- Cottrell E.** and Fei Y., "Challenges to Determining Metal-Silicate Element Partition Coefficients Under Extreme P-T Conditions." EOS Trans. AGU, 87(52) Fall Meet. Suppl., 2006. Abstract MR11A-0092
- Cottrell E.** and Walker D., "The effect of temperature and carbon on W partitioning between metal and silicate." AGU Joint Assembly. V31A-05. 2006.
- Cottrell E.** and Walker D., "The origin of PtFe nano- and micro-nuggets in experimental silicate glasses and its constraint on planetary core formation." Nanoscale Processes in Earth and Planetary Sciences, NNIN Workshop. No. 1722. January, 2006.
- Cottrell E.**, "On the Frontiers of Science Education." *Annual Newsletter of the Brown University Geology Department*. December, 2005.
- Cottrell E.** and Walker D., "High Temperature Effects on Pt Partitioning Between Metal and Mafic Silicate Liquids: Implications for Core Formation." EOS Transactions, AGU, MR21A-04, Fall Meeting 2005
- Cottrell E.** and Goldstein, S. "Glaciers in New York City: A Field Guide, Exercises & Instructor Manual." [www.gl.ciw.edu/cottrell](http://www.gl.ciw.edu/cottrell), Columbia University, 2004.
- Cottrell E.**, Jaupart, C., and Molnar P., "Marginal Stability of Thick Continental Lithosphere." EOS, Transactions, AGU, T31A-1264, Fall Meeting, 2004.
- Cottrell E.** and Walker D., "Ultra-High Temperature Effects in Earth's Magma Ocean: Pt and W

- Partitioning.” Proceedings of the Oxygen in Terrestrial Planets Conference. 2004.
- Walker D., Kavner A., and **Cottrell E.**, “Core-Mantle Geochemical Interactions.” EOS, Transactions, AGU, U51A-03 **INVITED**, 2002.
- †**Levine NM**, “Trace Element Concentrations in Melt Inclusions within a Plagioclase Phenocryst Host,” Junior Paper, Geosciences Department Princeton University, 2001-2002
- Cottrell E.** and Walker D., “A New Look at Pt Solubility in Silicate Liquid.” Proceedings of the 33rd Annual Lunar and Planetary Science Conference. Abs no.1274. 2002.
- Cottrell E.**, Spiegelman M., and Langmuir C.H., “A Numerical Model to Evaluate the Importance of Diffusive Exchange Between Melt Inclusions and Host Crystals.” EOS, Transactions, AGU, V71A-30, Fall Meeting, 2000.
- Cottrell E.**, Rutherford M.J., Gardner J., “Conflicting Evidence for Pre-Eruptive Conditions and Processes in the Minoan Rhyodacite, Santorini, Greece.” EOS, Transactions, AGU, 77, 46, pp. F805, V22A-24 **INVITED**, 1996.
- †Student under my supervision.

---

### PUBLIC RECOGNITION / MEDIA

- 2011 Understanding the Japan Earthquake. Smithsonian YouTube Channel.  
<http://www.youtube.com/user/smithsonianNMNH#p/a/u/0/fraPBV4kzvI>
- 2010 Smithsonian geologist puts Eyjafjallajökull eruption in perspective. Smithsonian YouTube Channel.<http://www.youtube.com/watch?v=U8965YViiPo&feature=channel>  
Recreating Volcanoes in a Lab. Smithsonian YouTube Channel.  
[http://www.youtube.com/watch?v=X2\\_bAUWmiW0](http://www.youtube.com/watch?v=X2_bAUWmiW0)
- 2009 Hirschmann M.M. "Ironing Out the Oxidation of Earth's Mantle," *Science*, 325 (5940), pp. 545-546, 2009  
Schmid R.E. "Oxidized lava may help explain Earth's evolution." Associated Press.  
[http://m.apnews.com/ap/db\\_16026/contentdetail.htm?contentguid=MxRLx3Kv](http://m.apnews.com/ap/db_16026/contentdetail.htm?contentguid=MxRLx3Kv)  
Urquhart J. "Water Linked to Mantle Oxidation" *Chemistry World Magazine*.<http://www.rsc.org/chemistryworld/News/2009/July/30070901.asp>
- 2004 Stoddard, J. "Simulating the Creation of the Earth's Core, With the Help of Great Gray." *Earth Institute News*. [www.earthinstitute.columbia.edu/news/2004/story11-01-04.html](http://www.earthinstitute.columbia.edu/news/2004/story11-01-04.html)
- 2002 Souren, A. "Bubbles in Amsterdam melt and fluid inclusion research at the Vrije Universiteit." *Newsletter of the Geochemical Society*. 112, p. 14, 2002

---

### RECENT COLLOQUIA AND PUBLIC LECTURES

- 2011 ▪ State University of New York at Buffalo, Dept. of Geology, March
- 2010 ▪ University of Michigan, Dept. of Geological Sciences, January  
▪ Rutgers University, Dept. of Earth and Planetary Sciences, Colloquium, February  
▪ University of Maryland, Dept. of Geological Sciences, March
- 2009 ▪ University of NY at Stony Brook, Dept. of Geosciences, November  
▪ American Museum of Natural History, New York, January
- 2008 ▪ The George Washington University, October
- 2007 ▪ University of Chicago, Dept. of Geophysical Sciences, June  
▪ University of Rhode Island, Graduate School of Oceanography, April
- 2006 ▪ University of Toronto, Department of Geology, November  
▪ Renaissance / SUNY Stony Brook, Department of Geosciences, September  
▪ University of Maryland, Department of Geological Sciences, May  
▪ Brown University, Department of Geological Sciences, March  
▪ Northwestern University, Department of Geological Sciences, February  
▪ Smithsonian, National Museum of Natural History, Mineral Sciences, February
- 2005 ▪ Geological Society of Washington, Public Lecture Series, Washington, D.C.  
▪ Columbia University, Department of Earth and Planetary Sciences, Palisades, NY

- 2004
- American Museum of Natural History, New York, NY
  - Brown University, Department of Geological Sciences, Providence, RI
  - Carnegie Institution of Washington, Geophysical Laboratory, Washington, D.C.
  - Bryn Mawr College, Department of Geology, Bryn Mawr, PA
  - North Shore, East Hampton, and New York, NY Branch Meetings of the AAUW
- 

#### **STUDENTS AND POSTDOCS ADVISED**

##### Postdocs

Christopher Seagle (2009 to present)

##### Graduate Students

Maryjo Brounce (2009 to present) - enrolled at URI/GSO under the joint-mentorship of K. Kelley

Dawn C. Sweeney Ruth (2010 to present) - enrolled at State U. of NY at Buffalo

##### Undergraduate Interns

Naomi Levine (2001) – Princeton University, NJ. Now a postdocs at Harvard.

Rebecca Fischer (2007) – Northwestern University, IL. Now a graduate student at U. Chicago.

Esther Posner (2009) – Grand Valley State University, MI. Now a graduate student at ASU.

Elizabeth Ruebush (2009) – Williams College, MA

Christa Jackson (2010 – present) – Humbolt State, CA