

KATHERINE ELLINS

Jackson School of Geosciences • The University of Texas at Austin • 10100 Burnet Road, Bldg. 196 •
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EDUCATION

PhD in Geography, Columbia University, New York, NY

Dissertation Title: Isotope Hydrology of Karst Basins in Jamaica and Puerto Rico

MA in Geography, Columbia University, New York, NY

M.A. in Science Education, New York University, School of Education, New York, N.Y

Bachelor of Arts, Skidmore College, Saratoga Springs, NY (Major: Geology)

Languages: English (native language) and intermediate professional level proficiency in Spanish

EMPLOYMENT HISTORY

Program Director for Geoscience Education Research, Office of Outreach and Diversity, Jackson School of Geosciences (JSG), The University of Texas at Austin. 9/2014-present.

Program Manager, Institute for Geophysics, The University of Texas at Austin. 10/1998-9/2014.

Ocean Drilling Program (ODP) Science Coordinator, Woods Hole Oceanographic Institution, 10/1996-9/1998.

US Liaison to the ODP Science Planning Office, University of Wales, Cardiff, UK, 6/1994-9/1996.

Assistant Professor, Department of Geology, University of Florida, Gainesville, FL, 8/1989-5/1994.

AWARDS

Fulbright CORE Scholar, Jamaica, the University of the West Indies (UWI), Mona

AGU Citation for Excellence in Reviewing (*EOS*), 2015

Selected as an AAAS Fellow, 1994.

RESEARCH AWARDS

(<http://grantome.com/search?q=@author%20%20katherine%20ellins>)

Current Sponsored Research Grants

1. Principal Investigator. **U.S. State Department**. CARIUSA 2017 Conference in Jamaica (spring 2017). \$19,953, 7/01/2016 - 6/30/2017. Supports the participation of U.S. STEM experts at a three-day conference to plan scholarly exchange between UT System and UWI System, and promote geoscience education.
2. Principal Investigator. **NSF-IUSE-1540608. GEOPATHS-IMPACT**: The Green Tech High School Academy: A Model Program of Combined Geoscience Field Learning, Classroom Instruction and Career Preparation, \$238,262, 9/15/2015 – 8/31/2018. Companion grant to Julie Libarkin, Michigan State University.
3. Principal Investigator. **NSF-GEO-1203021**, Collaborative Research: Diversity and Innovation for Geosciences in Texas (DIG TEXAS) - an Alliance for Earth Science Literacy, \$343,615, 8/15/2012 – 06/30/2016. Companion grants to Eric Riggs, Texas A&M University, and Laura Serpa, University of Texas at El Paso.
4. Principal Investigator. **NSF-DRL-1019815**, Collaborative Research: Confronting the Challenges of Climate Literacy, \$194,312, 9/15/2010 – 8/31/2014. Companion grants to Tamara Ledley, TERC, Karen McNeal, North Carolina State University, and Susan Sullivan, University of Colorado, Boulder.

Previous Sponsored Research Grants (UT Austin only)

1. Principal Investigator. **The University of Texas at Austin Collaborative Teaching Grant**. GEO 271-T: Geoscience Through the Lens of Art, \$10,000, 9/01/2015 – 8/31/2016.
2. Principal Investigator. **NSF-Opportunities for Enhancing Diversity in the Geosciences-0703687**, *Strengthening Pathways to Diversity through Professional Development for Minority-*

Serving K-12 Science Educators; \$1,183,198, 7/2008 – 7/2013. Note: The UT-Austin's Jackson School of Geosciences and the Texas Regional Collaboratives for Excellence in Science and Mathematics Teaching provided matching support.

3. Co-Investigator. **NSF-EAR-0746321**, *Seismic Investigation of Edge Driven Convection Associated with the Rio Grande Rift (SIEDCAR)*, \$481,030, 7/1/08-8/31/13.
4. Co-Investigator. **NSF Geoscience Education Program-1016032**. *A Workshop on Diversity and Innovation in the Geosciences, Texas*, \$39,997, 4/2010-6/2011.
5. Co-Investigator. **NASA**. *Earth System Science: The Key to Climate Literacy*, 7/2009 – 7/ 2011.
6. Principal Investigator. **Texas Water Development Board**. *Water Exploration: An Online High School Water Resource Education Program*, \$100,000, 9/2009 – 8/2010.
7. **Texas Education Agency**. *Earth Science Revolutions Workshops*, \$25,000, 9/2006 – 12/ 2006.
8. Principal Investigator. **NSF-OEDG GEO-0503568**, *Collaborative Research: The University of Texas Institute for Geophysics/Huston-Tillotson College Geosciences Diversity Project*, \$39,380, and 6/15/2005-7/ 31/2006. Note: the Jackson School of Geosciences provided a matching grant of \$40,000.
9. Co-Investigator. **NSF Crosscutting Programs-0139347**. *GK-12: An Interactive program Linking Graduate Fellows in Environmental Science with K-12 Students and Teachers*, \$1,821,537, 8/ 2002-7/ 2005.
10. Principal Investigator. **NSF Geoscience Education-0224501**, *Cataclysms and Catastrophes—the Role of Science in Natural and Human-induced Disasters*, \$152,126, 10/2002-9/2004.
11. CO-Principal Investigator. **Texas Higher Education Coordinating Board Teacher Quality Grants**. *Geoscience in the Classroom: Professional Development for Texas Teachers Using Materials Developed for the NSF-Sponsored Cataclysms and Catastrophes Project*, \$50,000, 8/2003-12/2004.
12. Principal Investigator. **The Charles A. Dana Center**. *Connecting good science teaching with improved student performance in science using the Texas essential Knowledge and Skills for the high school course Geology, Meteorology, and Oceanography*, \$30,000 (1999-2000).

TEACHING

Organized and delivered more than 40 training workshops, professional development academies and summer institutes for K-14 educators with funding from state and federal grants (1999 – 2016).

University Courses Taught

- The University of the West Indies, Mona. Disaster Management (team taught), January – May 2016.
- The University of Texas, Department of Geological Sciences, Jackson School of Geosciences, 2015: (1) Geoscience Through the Lens of Art; 2014-2015: (2) Teaching Earth and Space Science; (3) Teaching Climate Science with EarthLabs.
- Huston-Tillotson University, Austin, TX: Special Topics in the Geosciences, 2007.
- University of Florida, Department of Geological Sciences, 1989-1994:(1) Isotope Hydrology (graduate-level); (2) Groundwater Geology (graduate-level; team-taught); (3) Introduction to Oceanography (five years); (4) Introduction to Geology (two years); and Physical Geology.
- Teaching Assistant: (1) Environmental Sciences, Barnard College, NY (two years); (2) Introduction to Physical Geography, Columbia College, NY (one year); and (3) the Natural History of the Vertebrates of North America, New York University, NY (1974).

Innovations in Teaching: Course Development

- 2014-2015. Developed and taught 3 courses for pre-service STEM teachers and geology majors, Jackson School of Geosciences based on content from 3 projects: NSF-GEO-1203021, NSF-DRL-1019815 and NSF-OEDG-0703687.
- Geoscience Through the Lens of Art: The course examines the role of the visual arts in placing the scientific process and knowledge in a broader context and introduces students to innovations in the visual arts and computer science that promote scientific investigation through collaboration between geoscientists, computer scientists and artists

Online K-12 Curriculum

- DIG Texas Instructional Blueprints for Teaching Earth Science (http://serc.carleton.edu/dig_blueprints)

- Water Exploration (<http://www.waterexploration.org/>)
- TXESS Revolution (<http://www.txessrevolution.org/>)
- EarthLabs Climate Modules (<http://serc.carleton.edu/earthlabs/index.html>). Development led by Tamara Ledley, TERC.

LEADERSHIP AND PROFESSIONAL SERVICE

Advisory Committees: (1) December 2016 – present. Member of the Leadership **Committee of the AGU Geoscience, Art and Design Engagement community;** (2) May 2013 – December 2015, Chair of the EarthScope Education Subcommittee and member of EarthScope Steering Committee; (3) 2009–present, member of a board of advisors for the NSF-sponsored CyberShARE Center of Excellence at The University of Texas at El Paso; (4) 2007-2010, member U.S. Science Advisory Committee (USAC) to IODP; and (5) 2003- 2006, member of IRIS Education and Outreach Standing Committee.

Recent Strategic Planning: (1) NSF-sponsored community conference, Summit on the Future of Undergraduate Geoscience Education, January 10 – 12, 2014, Jackson School of Geosciences, Austin, Texas; (2) Co-leader of Diversity and Innovation for Geosciences (DIG) Texas, 2010 – present; (3) NSF community conference, Planning for the Future of Geo-Cybereducation, January 6 - 8, 2010, Washington, D.C.; (4) IODP New Ventures in Exploring Scientific Targets (INVEST), University of Bremen, Germany, Sept. 23–25, 2009, session co-convener; (5) MARGINS Successor Education Planning Meeting, Oct. 28 – 30, 2009, Carleton College, MN; (6) NSF-sponsored July 21-23 Earth Science Literacy Initiative (ESLI) writing workshop in St. Louis, MO; ESLI online workshop, May 12- 23, 2008 (Product: *Earth Science Literacy Principles: The Big Ideas and Supporting Concepts of Earth Science*, 2009, available at <http://www.earthscienceliteracy.org/>); (7) March 2008, Coalition of Earth Systems Science Education meeting; (8) NOAA - sponsored Earth and Space Science Education Summit, February 2008.

Session Co-convener at National/ Regional Conferences: (1) American Geophysical Union (AGU) Fall Meeting, 15- 19 December 2014, San Francisco, CA, PA 14A: Connecting Geoscience With the Arts; (2) 2014 GSA Annual Meeting in Vancouver, British Columbia, 19–22 October T71: Climate Literacy: Formal and Informal Education and Outreach Efforts to Increase Awareness and Enable Responsible Decisions; (3) American Geophysical Union (AGU) Fall Meeting, 9- 13 December 2013, San Francisco, CA, PA *Geoscience Through the Lens of Art*; (4) 47th Annual Meeting of South Central Section GSA Meeting, 4-5 April 2013, Austin, TX, No. 26, *Engaging the Next Generation of Geoscientists*; (5) AGU Fall Meeting, 3-7 December 2012, San Francisco, CA. ED04, *Climate Literacy: Barriers, Misconceptions and Progress in Improving Climate Literacy*; (6) AGU Fall Meeting, 8-12 December 2003, San Francisco, CA. ED17, *Education and Outreach Efforts of Major Research Facilities and Organizations*.

Reviewer for Scholarly Articles: *Journal of Geography*, *Journal of Geoscience Education*, *Journal of Evaluation and Program Planning*, and *Journal of Hydrology*. **Proposal Reviews:** Ad hoc and panel reviewer for NSF, NOAA, NASA, NATO, and Texas Education Agency (Texas Presidential Awards for Excellence in Science and Mathematics Teaching).

SCHOLARLY PRODUCTS

Ellins, K.K., S. Lynds and E. Stocks, What Makes a Great Teacher Leader? Examples from Texas (in preparation for *Journal of Geoscience Education*).

Ellins, K.K., A. Mandal and R.S, Smith, Using the Jamaica Educational Seismic Network (JAESN) to Advance Earthquake Resilience In Jamaica and as a Catalyst for STEM Education ((in preparation for the *Caribbean Journal of Earth Science*).

Ellins, K.K., T.S. Ledley, N. Haddad, K. McNeal, A. Gold, S. Lynds, and J. Libarkin, 2014, *EarthLabs: Supporting Teacher Professional Development to Facilitate Effective Teaching of Climate Science*, *Journal of Geoscience Education*, v. 62, no. 3, p. 330-342.

McNeal, K., J. Libarkin, T.S. Ledley, **K. K. Ellins**, and S. Dutta, 2014, The Role of Research in On-line Curriculum Development: The Case of the EarthLabs Climate Change Curriculum, *Journal of Geoscience Education*, v. 62, no. 4; p.560-577.

- Ellins, K. K.**, E. P. Mueller, J.E. Hughes, and L. Ruiz-McCall, Water Exploration: Using the Legacy Cycle to Teach About Water Resources (*Journal of Geoscience Education*; in revision).
- Ellins, K.K.**, E. Snow, H. C. Olson, E. Stocks, M. Willis, J. Olson, and M. R. Odell, 2013, The Texas Earth And Space Science (TEXSS) Revolution: A Model For The Delivery of Earth Science Professional Development To Minority-Serving Teachers, *Journal of Geoscience Education*, v. 61, no. 2, pp.187-201; doi: 10.5408/12-348.1.
- Ledley, T.S., Haddad, N., Bardar, E., **Ellins, K.**, McNeal, K., Libarkin, J., 2012, EarthLabs – An Earth System Science Laboratory Module to Facilitate Teaching About Climate Change: *The Earth Scientist*, v. 28, n. 3, p. 19-24.
- Goehring, Liz, Véronique Robigou and **Kathy Ellins**, 2012, Bringing Mid-Ocean Ridge Discoveries to Audiences Far and Wide – Emerging Trends for the Next Generation, *Oceanography* v. 25, no. 1, p. 287-298.
- Ellins, Katherine K.**, Hilary C. Olson, 2012, Enhancing Geoscience Education within a Minority-Serving Teacher Population, *Journal of Geoscience Education*, v. 60, no. 1, p. 21-33.
- Hornbach, Matthew J., Paul Mann, Cliff Frohlich, and **Kathy Ellins**, 2011, Assessing geohazards near Kingston, Jamaica: Initial results from chirp profiling, *The Leading Edge*, v. 30; no. 4; p. 410-413; DOI: 10.1190/1.3575287.
- Ellins, K.**, S. Hickox, E. Arnold, and S. Saito, 2004, A Report of the IODP Education and Outreach Workshop, February 20- 24, 2004, Austin, TX. Prepared for IODP Management International, Inc., p. 21.
- Hall-Wallace, M.K., M. Benthien, T. Boyd, G. Richard, **K. Ellins**, R. Marvinney, C. Meertens, M. Smith, S. Semken, J. Taber, L. Wald, 2003, EarthScope: An Unprecedented Opportunity for Education and Outreach in the Earth Sciences, November 2002, p.52.
- Ellins, K.K.**, (1992), Stable Isotope Study of the Martha Brae River Basin, Jamaica, *Water Resources Research*, v. 28, no. 6, p. 1597-1604.
- Ellins, K. K.**, T.R. Kincaid, R.A. Hisert, N.A. Johnson, C.A. Davison, and R.H. Wanninkhof, 1991, Using ^{222}Rn and SF_6 to determine groundwater gains and stream flow losses in the Santa Fe River, Florida. In: *Hydrogeology of the Western Santa Fe River Basin: Fieldtrip Guidebook No. 32*. Southeastern Geological Society, Tallahassee, FL.
- Ellins, K. Kelly**, Angel Roman-Mas and Roger Lee, 1990, Using ^{222}Rn to examine groundwater/surface discharge interaction in the Rio Grande de Manati, Puerto Rico. *Journal of Hydrology*, 115:319-341.
- Keynote and Invited Talks**
- Ellins, Katherine K.**, Supporting Students' Understanding of Climate and Natural Hazards: Examples from the EarthLabs Climate Project and the Jamaica Educational Seismic Network (JAESN), Geological Society of Jamaica, April 30, 2016.
- Ellins, Katherine K.**, The Impact of Linking Art and Music to the Geosciences, Natural History Society of Jamaica, March 3, 2016.
- Ellins, Katherine K.**, Earth is Calling: Careers That Change the World, General Assembly, Immaculate Conception High School (ICHS), May 18, 2016.
- Ellins, Katherine K.**, Geoscience + Art, May 3, 2014, Art Science Gallery, Austin, TX.
- Ellins, Katherine K.**, Geoscience Through the Lens of Art, 2014, presented at the Texas Art Science Evening Rendezvous (TASER), Umlauf Sculpture Gardens and Museum, Austin, TX, 4 March.
- Keynote speaker** at the Florida Association of Science Teachers and Science Supervisors Conference, October 16-22, 2011, Orlando, FL.
- Keynote Speaker**, The Earthquake Risk is Real—What is Jamaica's Coping Capacity, A Symposium on Disaster Preparedness. Sponsored by the American Chamber of Commerce in Jamaica (AMCHAM), July 28, 2010, **Ellins, K.K.**, The Stories Faults Tell: Risks Associated With Earthquakes and Tsunamis Near Kingston, Jamaica.
- Robigou-Nelson, Veronique and **Katherine K. Ellins**, The Power and Pleasure of Visual Arts in Exploring Remote Environments, 2012, Abstract PA21B-06, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec. INVITED.
- Ellins, K.K.**, K.C. Miller, S.W. Bednarz, and S. Mosher, 2011, Rising Above the Storm: DIG TEXAS, Abstract ED53D-03, presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec. INVITED.

- Ellins, K.K.**, H. C. Olson, E. Snow, L. Peart, L. Goehring, 2010, Geoscience Professional Development for Minority-Serving K-12 Science Educators: The TXESS Revolution, *Oce Sci*, ED43A-01. INVITED.
- Ellins, K.**, H. C. Olson, M. Willis, 2007. The TXESS Revolution: A Partnership to Advance Earth and Space Science in Texas, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract ED24A-01. INVITED.
- Ellins, K.K.**, UTIG's Contributions to Seismology in K-12 Classrooms, 2004. *EOS*, Transactions of the American Geophysical Union, 85 (47), Fall Meet. Suppl., Abstract ED32A-06. INVITED.
- Ellins, K.**, H. Olson, J. Pulliam, and M.J. Schott, 2002, Using Geophysical Data in the Texas High School Course, Geology, Meteorology, and Oceanography, *Eos Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract ED71C-02. INVITED.

Recent Conference Papers/ Abstracts

- Ellins, Katherine K.**, Arpita Mandal, Paul Coleman, Tammy K. Bravo, Delmares White, Amoy Kelly, Sherene James-Williamson, John Taber, and Karleen Black, 2016, Using the Jamaica Educational Seismic Network (JAESN) to Advance Earthquake Resilience In Jamaica, Paper No. 156-8, Annual Meeting of the Geological Society of America, September 25-29, Denver, Colorado.
- Ellins, Katherine K.**, Arpita Mandal, Rose-Ann Smith, Rupert Green, Andre Reid, Paul Williams, Paul Coleman, Susan Eriksson, Nadine Molloy, and Jodi Henry, 2016, The Jamaica Educational Seismic Network (JAESN) as a Catalyst for Geoscience Education, Paper No. 330-2, Annual Meeting of the Geological Society of America, September 25-29, Denver, Colorado.
- Ellins, Katherine K.**, Eric M. Riggs, Laura Serpa, Eric Stocks, Tamara Shapiro Ledley, Karen McNeal, Julie Libarkin, Luc Lavier, Francesca Samsel, Rose-Ann Smith, and Arpita Mandal, 2016, Teaching With Online Educational Materials In The Geoscience Classroom: Examples From Texas And Jamaica, Paper No. 67-2, Paper No. 330-2, Annual Meeting of the Geological Society of America, September 25-29, Denver, Colorado.
- Ellins, Katherine K.**, Tamara S. Ledley, Karen McNeal, Nick Haddad, Julie Libarkin, Erin Bardar, Betsy Youngman, Candace Dunlap, Jeff Lockwood, and Alison Mote, 2015. Supporting Students' Understanding of Change Over Time and Space: The EarthLabs Climate Series, Paper No. 183-4, presented at the 2015 GSA Annual Meeting in Baltimore, Maryland, 1-4 November.
- Jacobs, Belinda, **Katherine K. Ellins**, Trey Pearce, Eric Riggs, Laura Serpa, Eric Stocks, 2015. Rigorous Instruction in the Earth Science Classroom in the wake of the NGSS: Implementing the DIG Texas Blueprints, Paper No. 58-13, Presented at the 2015 GSA Annual Meeting in Baltimore, Maryland, 1-4 November.
- Bohls-Graham, Elaine, **Katherine K. Ellins**, Connie Sergent, 2015, Building Bridges While Building Blueprints: Authentic Experiences Developing Dig Texas Blueprint Units, Paper No. 33-12, presented at the 2015 GSA Annual Meeting in Baltimore, Maryland, 1-4 November.
- Sergent, Connie, **Katherine K. Ellins**, Elaine Bohls-Graham, 2015, Earth Science education in the 21st Century: One Teacher's Experience as a DIG Texas Instructional Blueprint Education Intern, Paper No. 216-7, presented at the 2015 GSA Annual Meeting in Baltimore, Maryland, 1-4 November.
- Haddad, N.A., T.S. Ledley, **K.K. Ellins**, et al., 2014, Preparing Teachers to Support the Development of Climate Literate Students, Abstract ED13C-3462, presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- Eriksson, Susan and **K.K. Ellins**, 2014, Building a Community for Art and Geoscience, Abstract PA11A-3866, presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- Martinez, Alejandra, Elaine Bohls-Graham, Belinda Jacobs, and **Katherine Ellins**, 2014, Authentic Learning Experiences for Educators Through Summer Internships: Revising the DIG Texas Instructional Blueprints, Abstract ED51C-3449, presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- Jacobs, Belinda, Elaine Bohls-Graham, Alejandra Martinez, and **Katherine Ellins**, 2014, Evaluating Educational Resources for Inclusion in the DIG Texas Instructional Blueprints for Teaching Earth and Space Science, Abstract ED51C-3450, presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- Robinson, Sarah, **Katherine Ellins**, Steve Semken, and Ramon Arrowsmith, 2014, EarthScope Education and Outreach: Accomplishments and Emerging Opportunities, Abstract ED23A-3483, presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

- Mote, Alison, Jeff Lockwood, **Katherine Ellins**, et al., 2014, *EarthLabs* Climate Detectives: Using the Science, Data, and Technology of IODP Expedition 341 to Investigate the Earth's Past Climate, Abstract ED51C-3444, presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- Ellins, K.K.**, A.S. Mote, J. Lockwood, N. Haddad, T. S. Ledley, K. McNeal, S. Lynds, J. C. Libarkin, A. Gold, 2014, *EarthLabs* Climate Detectives: Curriculum Based on IODP Expedition 341 on the JOIDES Resolution, Paper No. 245-7, presented at the 2014 GSA Annual Meeting in Vancouver, British Columbia, 19-22 October.
- Jacobs, B.E., **K.K. Ellins**, E.M. Riggs, E. Stocks, 2014, DIG Texas Instructional Blueprints: Supporting Rigorous and Relevant Instruction in High School Earth and Space Science, Paper No. 9-2, presented at the 2014 GSA Annual Meeting in Vancouver, British Columbia, 19-22 October.
- Mote, A.S. J. Lockwood, **K. K. Ellins**, N. Haddad, S. K. Cooper, T. S. Ledley, 2013, Integrating Real-time, Real-world Geoscience Experiences into Classroom Instruction with EarthLabs and the JOIDES Resolution, Abstract ED11B-0746, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Haddad, N., T. S. Ledley, **K. K. Ellins**, E. Bardar, C. Dunlap, E. Youngman, 2013. Using Next Generation Science Standards to Strengthen Existing Climate Curriculum Modules, Abstract ED12A-08, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- McNeal, K., J. C. Libarkin, T. S. Ledley, A. U. Gold, S. E. Lynds, N. Haddad, **K. K. Ellins**, E. Bardar, C. Dunlap, E. Youngman, 2013, Development of a Climate Concept Inventory and Assessment of High-school Students Engaged in the EarthLabs Climate Modules, Abstract ED31D-06, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Lynds, S.E., A. U. Gold, K. McNeal, J. C. Libarkin, S. M. Buhr Sullivan, T. S. Ledley, N. Haddad; **K. K. Ellins**, 2013, Investigating Climate Science Misconceptions Using a Teacher Professional Development Workshop Registration Survey, Abstract ED33A-0766, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Ellins, K.K.**, L. Serpa, D. Pennington, E.M. Riggs, S.P. Fox, K. Larsen, E. Stocks, S. Mosher, K. C. Miller, 2013, DIG Texas Instructional Blueprints, Paper No. 17-11, presented at the 125th Anniversary GSA Annual Meeting, Denver, CO, 27-30 October.
- Snow, E., **K.K. Ellins**, and E.M. Riggs, 2013, On the Challenges of Implementing a Capstone Geology Course in Texas High Schools, Paper No. 176-1, presented at the 125th Anniversary GSA Annual Meeting, Denver, CO, 27-30 October.
- Ellins, K.K.**, T.S. Ledley, N. Haddad, K.S. McNeal, A. Gold, S. Lynds, J. Libarkin, E. Quartini, K. Thirumalai, and M. Cavitte, 2013, EarthLabs: Supporting Teacher Professional Development to Facilitate Effective Teaching of Climate Science, Paper No. 208-6, presented at the 125th Anniversary GSA Annual Meeting, Denver, CO, 27-30 October.
- Ellins, K.K.**, L. Serpa, D. Pennington, E.M. Riggs, S.P. Fox, S. Mosher, K. C. Miller, 2013, DIG Texas Instructional Blueprints for Teaching Earth and Space Science, Paper No. 16-5, presented at the South-Central Section - 47th Annual Meeting, GSA, Austin, Texas, 4-5 April.
- Miller, K.C., **K.K. Ellins**, E.M. Riggs, S. W. Bednarz and S. Mosher, 2013, Dig Texas: An Alliance to Promote the Geosciences and Diversify its Workforce, Paper No. 16-4, presented at the South-Central Section - 47th Annual Meeting, GSA, Austin, Texas, 4-5 April.
- Haddad, N., **K.K. Ellins**, T. S. Ledley, K.S. McNeal, J.C. Libarkin, 2013, Climate Literacy: Supporting Teacher Professional Development, Paper No. 1-11, presented at the South-Central Section - 47th Annual Meeting, GSA, Austin, Texas, 4-5 April.
- Brunt, M. R., **K. K. Ellins**, D. Boyd, A. S. Mote, J. Pulliam, C. A. Frohlich, 2012, Promoting seismology education through collaboration between university research scientists and school teachers, Abstract ED41B-0678, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- Chegwidden, Dawn M., **K. K. Ellins**, N. Haddad, T. S. Ledley, 2012, Using EarthLabs to Enhance Earth Science Curriculum in Texas, Abstract ED23A-0738, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- Haddad, Nick, Tamara S. Ledley, Candace Dunlap, Erin Bardar, Betsy Youngman, **Katherine K. Ellins**, Karen S. McNeal, Julie Libarkin, 2012, Climate Literacy: Supporting Teacher Professional Development, Abstract ED23A-0734, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.

- Manley, Jim W., Alysia N. Barr, **Katherine K. Ellins**, Nick Haddad, Tamara S. Ledley, Candace Dunlap, and Erin Bardar, 2012, Why should we care? Awakening Middle and High School students to the reality of climate change, Abstract ED21D-05, presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
- McNeal, Karen, Julie Libarkin, Tamara Shapiro Ledley, Nick Haddad, **Katherine K. Ellins**, 2012, The Role Of Research In Online Curriculum Development: The Case of the *EarthLabs* Climate Change Curriculum, Paper 196-7, presented at the 2012 GSA Annual Meeting, Charlotte, North Carolina, 4-7 Nov.
- Brunt, M., **K.K. Ellins** and C.A. Frohlich, Eagle Pass Jr. High Seismology Team: Strategies for Engaging Middle School "At-Risk" Students in Authentic Research, Abstract ED33C-03, presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Manley, J., **K.K. Ellins**, 2011, Engaging Middle School Students in Authentic Research Based on a Summer Research Cruise, Abstract ED33C-07, presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Mote, A., **K.K. Ellins**, and N. Haddad, 2011, The EarthLabs Approach to Curriculum and Professional Development: Earth Science Education in the 21st Century, Abstract ED34B-08, presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Ellins, K.K.**, H.C. Olson, E. Snow, M. Willis, M. Odell, E. Stocks, and K. Manganella, 2011, Characteristics of the Texas Earth and Space Science (TXESS) Revolution Model of In-service Teacher Professional Development, Geological Society of America Abstracts with Programs, V. 43, No. 5, Paper No. 216-8.
- Hornbach, M.J., L. Brown, P. Mann, **K.K. Ellins**, and C. Frohlich, 2011, Assessing Geohazards Near Kingston, Jamaica: New Results from Chirp Seismic Imaging, Geological Society of America Abstracts with Programs, V. 43, No. 5, Paper No. 215-9.
- Ellins, K.K.**, L.R. McCall, S. Amos, R.F. McGowan, A. Mote, K. Negrito, B. Paloski, C. Ryan, and B. Cameron, 2010, Water Exploration: An Online High School Water Resources Program, Abstract ED 23B-0717, presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17.
- Ellins, K.K.**, H.C. Olson, E. Snow, M. Odell, E. Stocks, and M. Willis, 2010, The Impact of the Texas Earth and Space Science (TXESS) Revolution, Geological Society of America Abstracts with Programs, V. 42, No. 5, Paper No. T43-133-1.
- Ellins, Katherine K.**, Elizabeth Abernathy, Kathleen Negrito and Linda McCall, 2009, The Application of Legacy Cycles in the Development of Earth Science Curriculum, European Geophysical Union, Vienna, Austria, April 2009.
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RECENT MENTORING AND ADVISING

University of Texas at Austin: 3 NSF Education Interns (summer 2014); 16 *EarthLabs* Climate Literacy and Earth System Science Teacher Leaders (2008 – present); 3 UTeach master's degree students (2009, 2011), 10 NSF GK-12 fellows, 5 undergraduate research assistants; Joint Oceanographic Institutions Undergraduate Minority Fellow (2007–2008); 7 NSF GK-12 Fellows and teachers.

AFFILIATIONS/MEMBERSHIPS

American Geophysical Union, Geological Society of America, National Association of Geoscience Teachers, National Earth Science Teachers Association, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), DIG Texas, and Climate Literacy and Energy Awareness Network (CLEAN)