

Erin Nicole Frisk

EDUCATION

2008- Current	PhD	Arizona State University, Global Institute of Sustainability (Sustainability) Dissertation Title: <i>Developing, Implementing, and Evaluating Sustainability Education through the Integration of Behavioral Science into Pedagogy and Practice</i>
2007	M.S.	Slippery Rock University (Sustainable Systems) Thesis Title: <i>Educating for Sustainability through Nature Play at McKeever Environmental Learning Center.</i>
2005	B.S.	Northland College (Biology & Business Administration)

WORK EXPERIENCE

Biodesign Institute- Center for Sustainable Health, Hartwell Sustainability Education Team- Research Analyst
Supervisor: Anne Hale (ahale1@asu.edu) & Lee Hartwell (Lee.Hartwell@asu.edu)
Employed: Fall 2011

The Hartwell Sustainability Education Team is tasked with creating a hybrid (part online part in-class) course called *Sustainability Science for Teachers*. This course is part of the reSETS curriculum redesign for the teachers college and will be a required course for undergraduate education majors at ASU. My position includes collaboratively developing innovative pedagogy that engages sustainability competencies and fosters sustainability literacy. I am creating interactive homework assignments through programs such as Gapminder, Motion Chart, and GigiPan. My research as a doctoral candidate focuses on creating sustainability education programs that resonate with student's values, attitudes, and norms. At Biodesign, I am utilizing my research to engage the next generation of teachers in sustainability science.

STEM College for Kids Summer Educational Program- Progressing towards Sustainability
Supported by Graduate STEM fellows in K-12 Education (GK-12)& ASU's Center for Research on Education in Science, Mathematics, Engineering and Technology (CRESMET)
Supervisor: Dr. Kelli Larson (Kelli.Larson@asu.edu)
Employed: Summer 2011

I developed and implemented a summer course called "Progressing towards Sustainability" in which I worked with middle and high school students as well as K-12 teachers that were getting their masters degrees at ASU's College of Education. Through this program, I applied my research on integrating behavioral sciences into education pedagogy in order to promote transformative action. Rather than focus on information building, I developed activities focused on social norms, locus of control, skill building, and sustainability literacy. I developed the curriculum, taught and organized every lesson, all materials, speakers, meals, and field-trips. My short-term results indicate that there was significant shift in attitudes and behaviors amongst the students and teachers due to the education intervention.

Global Institute of Sustainability- GK-12 Fellowship
National Science Foundation- Sustainability Science for Sustainable Schools
Supervisors: Susan Ledlow (ledlow@asu.edu) & Monica Elser (MMELSER@asu.edu)
Employed: Aug. 2009-Aug. 2011

Through the sustainable schools project, I collaborated with administrators, teachers, and students to implement sustainability projects and curriculum throughout the Phoenix Area. I spent one year working primarily with MetroTech High school, where I coordinated sustainability projects throughout the campus, classroom, and community. Through the partnership with MetroTech, I co-taught teacher workshops and assisted students in projects such as the social justice literary magazine, rain-water harvesting, sustainable dining and many more. During summer 2010, I worked with MetroTech high teachers, students, and staff to redesign the fine dining room and facilities as well as curriculum for the culinary program based on sustainability principles and practices. In addition to working with MetroTech, I have collaborated with BioScience High, Mountain Pointe High and the Deer Valley School District in order to integrate sustainability throughout their schools. Through this grant I have also worked with AAEE, performed sustainability audits, and presented at over a dozen conferences including a CEFPI conference and an Arizona Department of Education workshop.

Resume

Global Institute of Sustainability- Ecology Explorers, Sustainability Outreach Coordinator

Supervisor: Monica Elser (MMELSER@asu.edu)

Employed: August 2008- August 2009

I developed sustainability lessons for elementary, middle, and high school teachers. In addition to creating sustainability lessons, I regularly ran the lessons in schools throughout the Phoenix area. My various experiences include: teaching sustainability to middle schools students through a program called 'Boys Hope, Girls Hope,' collaborating with Deer Valley students and staff to coordinate a district wide Green Summit, teaching and creating sustainability lessons for Laguna Elementary School and Navajo Elementary School, and presenting sustainability issues at Dobson High, North High, and various other schools, as well as running district-wide teacher workshops focused on integrating sustainability throughout K-12 schools. Through Ecology Explorers I also coordinated the Bernard Harris Summer Science Camp. The topic for the 2-week camp was sustainability and the theme was 'energy detectives.' In addition to preparing the activities and materials, I also taught and/or oversaw every single one of these lessons throughout the duration of the program.

Lake Superior Pathfinders- Northland College, Sustainability Leadership Instructor

Supervisor: Elizabeth Post

Employed: Summer 2006, 2007, and 2008

Pathfinders is an environmental leadership and social justice program for high school students. I developed and implemented complex environmental, sustainability and social justice activities. I organized sustainability themed days including visits to off-the-grid houses, sustainable farms, an aquaculture demonstration site, and many other sites that demonstrated social, cultural, economic, and environmental sustainability.

Pennsylvania Center for Environmental Education (PCEE), Graduate Assistant to the Communication Coordinator

Supervisor: Richard Knight

Employed: January 2007- December 2007

I maintained and developed content for the PCEE website, assisted with the preparation of the electronic monthly newsletter, events calendar and facilities directory. I also designed and monitored the Question of the Week: an environmental question that is timely, creative, educational, and meets the Environment and Ecology standards.

McKeever Environmental Learning Center (PA), Environmental Education Intern and Field Instructor

Supervisor: Fran Bires – fran@mckeever.org

Employed: January 2007- December 2007

I assisted with the outbound program to educate area elementary students on environmental issues. I taught programs on energy, renewable and non-renewable resources, packaging waste, and vermicomposting. At McKeever, I designed and implemented an interpretative butterfly garden using sustainable techniques. The garden required collaboration with the teaching staff, kitchen staff, and administrators at the center. I also established a vermicomposting system at McKeever.

Sigurd Olson Environmental Institute- Apostle Island School, Valerie Chabot Teaching Fellowship

Supervisor: Donors of Fellowship (Chabot Family)

Employed: January 2006- June 2006

I was responsible for program development, financial management, and the coordination of all transportation and equipment for the Stockton Island program. I was the liaison between Northland College, the Institute, attending schools and the park service. I completed staff evaluations and a program assessment for Northland College, the Sigurd Olson Environmental Institute, and the donors of the fellowship. I also prepared the promotional materials for Apostle Islands School; including brochures, letters, and flyers. I prepared presentations and visited schools promoting the program. While the students were on the island, the staff and I were responsible for all the educational programs and activities.

COLLABORATIVE GRANTS

2011 Frisk E. & Larson K. The Neely Foundation Food and Agriculture Sustainability Research Grant.

Title: Educating for Food Systems Sustainability: Case Study program at ASU, June-July 2011.

2010 Redman, A., Frisk E., Forrester C. Innovation Challenges Grant. Title: Producing Fruit and Vegetable (FAV) Bags through Rural, Women-Run, El Salvador Cooperatives.

Resume

- 2010 Redman, A., Frisk, E., Forrester, C. GPSA Jumpstart Grant. Title: Empowering Women and Protecting the Planet through the development of Rural, Women-run Cooperatives.

CONFERENCES & SYMPOSIUM

- 2011 Presenter, Arizona Department of Education: Summer Conference Arizona Career and Technical Education. Conference Title: Meeting the Challenge! Shaping the Future! Presentation Title: *Interdisciplinary Sustainability Activities*. Contracted by: Tracy Rexroat, State Supervisor, Tucson, Arizona. July 16-20th.
- 2011 Presenter, Council of Educational Facility Planners International (CEFPI), Conference Title: Moving Sustainability Forward. Presentation Title: *The ASU GK-12 Sustainability Science for Sustainable Schools Project: Linking Curriculum and Learning to Facilities as Learning Tools*, March 11th, and 12th.
- 2011 Presenter/Speaker, ASU's Polytechnic 4th Annual Education Fair, Title: *Exploring the environmental, economic, and social components of our food system through Salsa!* Polytechnic Campus, March 5th
- 2011 Presenter, STEM-Net Teacher Training. Presentation Title: *Integrating Sustainability into the classroom*, Tempe ASU Campus, January 27th.
- 2011 Poster Presenter, CAP-LTER (Central Arizona Project-Long Term Ecological Research) All-Scientists Poster Symposium on Urban Sustainability, Title: Developing and Implementing Sustainability Education through the Integration of Behavioral Scientists, Tempe, ASU campus, Tempe, AZ, January 12th and 13th.
- 2010 Presenter, APS Back to School Resource Fair. Presentation Title: *Sustainability Science for Sustainable Schools*, Downtown ASU, Phoenix, AZ, Sept. 11th
- 2010 Presenter, Association for Childhood Education International (ACEI), Title: *Connecting Preschoolers to Nature: Using Community Collaboration to Strengthen Sustainability Awareness*, Phoenix, AZ, April 28th
- 2010 Poster Presenter, Annual Conference Graduate STEM Fellows in K-12 Education (GK-12) Projects, Washington D.C., March 26-28
- 2009 Presenter, Annual (NSTA) National Science Teachers Association Conference, Title: *Simple Sustainability Lessons for the Classroom*, Phoenix, Arizona, December 3rd.
- 2009 Key Note Speaker, Dobson High, Plan(it) Green Awareness Week, Phoenix Arizona, April 9th.
- 2009 Key Note Speaker, Deer Valley District Green Summit, Glendale, Arizona, February 5th.
- 2008 Presenter, ASU's Polytechnic 1st Annual Education Fair, Title: *Evaluating the Sustainability of Water Bottles through Life Cycle Analysis*, Polytechnic Campus, October 4th.
- 2007 Poster Presenter, Pennsylvania Alliance for Environmental Educators (PAEE) Conference, on behalf of the Pennsylvania Center for Environmental Education, Penn State, April.

PUBLICATIONS

Frisk, E. & Larson, K. (2011). Educating for sustainability: Competencies and practices for transformative action. *Journal for Sustainability Education*. Vol. 2

http://www.journalofsustainabilityeducation.org/wordpress/content/educating-for-sustainability-competencies-practices-for-transformative-action_2011_03/

Elser, M., Pollari, L., Frisk., & Wood, M. (2011). Linking Curriculum and Learning to Facilities: Arizona State University's GK-12 Sustainable Schools Program. *Educational Facility Planner*, Vol 45, Issue 3. www.cefpi.org