

Kansas Green Schools & Environmental Education Conference
***The Next Generation of Learning: Bringing the new Science Standards to Life
through School & Community Partnerships***
June 27-28, 2014
Sedgwick County Zoo ~ Wichita, Kansas

2014 Tentative Conference Schedule



KACEE
KANSAS ASSOCIATION FOR
CONSERVATION &
ENVIRONMENTAL
E D U C A T I O N



Friday, June 27, 2014

- 2:30pm** **Registration and Exhibitor Set Up**
- 3:30-4:30pm** **Taste of EE and Exhibits (Interactive EE Activities for Next Generation Science Standards)**
- 4:30-5:30 pm** **Keynote Address by Mary Ford: The Power and Promise of Citizen Science**

Citizen science can be a powerful educational tool, giving students opportunities to better understand and contribute to their communities. At the same time, it can help students develop experience and expertise in the Science and Engineering Practices that are part of the Next Generation Science Standards. National Geographic coordinates several different citizen science programs as well as resources and instructional tools that support broad public participation in scientific research. This presentation will highlight some of these examples and examine how citizen science can be an effective form of environmental education.



Mary Ford is Senior Program Manager for Citizen Science at the Center for Geo-Education, a part of the National Geographic Society. Mary has an undergraduate degree in ecology from Harvard University and a master's degree in environmental management from Yale University. Her career has focused on environmental education and she has worked at the Cary Institute of Ecosystem Studies, the World Wildlife Fund, the Council for Environmental Education and the National Audubon Society. She has also taught preschool, middle school and high school.

- 5:30-6:00pm** **Networking in the Courtyard: Drinks and Appetizers/Exhibits/Auction Begins**
- 6:00-7:00pm** **Dinner**
- 7:30pm-??** **Donor Reception/ Hospitality Suite, Holiday Inn, Maize, KS**
Join us for a "Build Your Own Sundae" bar, refreshments and networking!

Saturday, June 28, 2014

NOTE: Concurrent Session Times are Tentative

- 8-8:50am** **Concurrent Session 1**

Strand A: Models for School/Community Partnerships

Community Watershed Collaborations for Environmental Literacy

Learn about the watershed-based collaboration between Wyandotte High School, Blue River Watershed Association, US Green Building Council, and a local non-profit group to engage students in hands-on STEM learning while connecting to their local community. This session will include lessons learned and brainstorming for community collaborations. *Presenter: Dr. Mike Hotz, Wyandotte High School*



Strand B: Model EE Lessons and Activities

Would YOU Drink That? Engineering Water Filtration

Engage in a hands-on lesson that explores erosion and water pollution, and challenges participants to build a contraption to restore the cleanliness of the water. Explore the engineering design process, how to connect to other subjects, and suggestions for connecting with local community partners. *Presenter: Rebecca Matrow, Exploration Place*



8:50-9:40am

Concurrent Session 2

Strand A: Models for School/Community Partnerships

FrogWatch: Citizen Science Connecting School and Community

FrogWatch is a citizen science based program designed to help determine what is happening to our nation's frogs. Be prepared to have some fun and collaborate with some great ideas. We will be talking about involvement, recruitment and follow through, and we may even test your skills at frog calls! *Presenter: Chaille Blount, Sedgwick County Zoo*

Strand B: Model EE Lessons and Activities

Engineering in Nature - How to Bring Engineering into Life and Biological Sciences

Come and participate in a project based learning unit which integrates multiple subject areas including STEM, social studies, and multiple writing fields. Examples of explorations include engineering of dams and dwellings of native wildlife such as the beaver, comparing and contrasting beaver and human engineering from Native American practices to modern techniques and much more! Each participant will receive lesson ideas and construct their own watershed model to take with them. *Presenter: Alaine Hudlin, Kansas Department of Wildlife, Parks and Tourism*

9:40-10:10am

Break/Exhibits/Auction



10:10-11:40am

Roundtable Discussion

Creating a Community Vision and Partnership for STEM/STEAM

Casting a new vision for community-based models of STEAM, hear about two collaborative models of involving community partners to support PK-12 educators in the STEAM areas. Discussion will focus on promising practices, strategies for identifying and engaging partners in your community, challenges and broader collaborations. *Presenters: Dr. Lucas Shivers, USD 383, Schanee' Anderson and Kara King, Sedgwick County Zoo and Jared Bixby, Sunset Zoo and Flint Hills Discovery Center*

11:40am-1:00pm

Mid-Day Networking: Business Meeting/Lunch/Exhibits/Auction

1:00-1:50pm

Concurrent Session 3

Strand A: Models for School/Community Partnerships

Taking Science Education to the Next Level through Citizen Science

Highlighting the recent NSTA press publication, Citizen Science 15 Lessons that bring Biology to Life, this session is everything citizen science. Attendees will explore the benefits of engaging in citizen science projects to enhance education locally through real world experiences while making a global impact within the greater research community. To make this task easy, the featured book has turned 15 citizen science projects into working lesson plans using the 5E instructional model. Even if purchasing a book is not on the horizons for you or your organization, attendees will receive the resources needed to explore and create unique lessons based on a variety of citizen science projects. *Presenter: Jared Bixby, Sunset Zoo and Flint Hills Discovery Center*



Strand B: Model EE Lessons and Activities

Building Relationships in Your Community to Support Students and STEM

During this session participants will experience and learn about the cooperative relationships formed between Hutchinson area schools, communities, and formal and informal educators like the Boys and Girls Clubs of Hutchinson. Participants will learn about strategies and models for developing STEM programs and initiatives that support student learning within these relationships and working cooperatives. *Presenter: Carl Cohen, Boys and Girls Clubs of Hutchinson*

1:50-2:10pm

Break/Snack/Auction Closes

2:10-3:00pm

Concurrent Session 4

Strand A: Models for School/Community Partnerships

Breathe Easy: Community-Student Partnerships for Clean Air

Find out how a community-school partnership to create no idling zones for buses and parents led to school district wide changes. Discover air quality projects that connect students to environmental professionals in the community. *Presenters: Tonya Bronleewe, City of Wichita, Katie Henning, 8th Grade Math, Stucky Middle School Elizabeth Ablah PhD, MPH, Associate Professor KU School of Medicine Preventative Medicine and Public Health Kathleen Waters, Environmental Scientist, KDHE Bureau of Air*

Strand B: Model EE Lessons and Activities

Connection: Engaging Our Kids with Our World

Attendees will learn about ways that our students can learn through engagement in our world. We will learn how to use tools such as school/community gardens, fishing, hiking, and camping to engage kids in their learning and our world and with our communities. *Presenter: Steve Woolf, Superintendent of USD 101*

Visit <http://www.kacee.org/2014-kansas-environmental-education-conference>

for more information about the conference



Kansas Green Schools & Environmental Education Conference

KACEE thanks the following agencies, companies, and organizations for supporting the 2014 Kansas Green Schools & Environmental Education Conference.

(as of June 17, 2014)



Kansas Department of Health & Environment, Bureau of Air ~ Kansas Department of Health & Environment, Bureau of Water, Watershed Management Section ~ Kansas Farm Bureau ~ Kansas Forest Service
Midwest Energy, Inc ~ Acorn Naturalists ~ Kansas Water Office ~ Kansas Grassfed Beef Co ~ Geary County Conservation District ~ Morris County Conservation District ~ Pottawatomie County Conservation District
US Green Building Council - Central Plains Chapter ~ Wilson County Conservation District