



Schedule of Events!

8:00-8:30am	Registration and Topeka Zoo Encounter!
8:35am	Welcome and Opening Remarks Emcee - Kris Craven, National Weather Service Topeka
9am	Natural History Museum - University of Kansas Theresa MacDonald and Bekkah Lampe “Rubber Chicken Science”
9:30-9:40am	(Groups Walk to Morning Labs)
9:40-10:30am	Morning Lab
10:30-10:40am	(Groups Return to Washburn Union)
10:45-11:15am	Chemical and Petroleum Engineering, University of Kansas “What Fuels You?” Susan Williams
11:15-11:45am	Lunch With Lab Instructors and time to meet other girls!
11:45-Noon	(Groups Walk to Afternoon Lab)
Noon-12:50pm	Afternoon Lab
12:50-1pm	(Groups Return to Washburn Union)
1-1:25pm	Science Quiz Bowl! Susan Stover, Kansas Water Office
1:25-1:30pm	Closing Remarks



True Blue® for over 120 years



Lab Organizer and Volunteer Coordinator: Susan Bjerke

Steering Committee: Susan Bjerke, Karen Carmarda, Kris Craven, Liz Smith, Susan Stover, Donita Turk

Washburn Foundation
Kansas Department of Health and Environment

Chartwells Dining Services
KU Association for Women Geoscientists
Washburn Biology Club
Washburn Chemistry Club
Kansas University School of Engineering

...And many thanks to all the walking leaders, lab leaders, assistants, and extra sets of hands!!

Our Guest Speakers!



Teresa MacDonald is the Director of Education at the University of Kansas Natural History Museum. She was born and grew up in Winnipeg, Canada and earned a Bachelor of Arts honors in physical anthropology, later moving to western Canada to pursue a Master of Science in vertebrate paleontology. From there, she taught science at a rural high school in northern Ghana (West Africa), then onto the United Kingdom where she worked in a university, museum and science center before moving to Lawrence, KS. More than twenty years experience teaching science in five countries and on three continents—has given her an opportunity to work in varied settings with diverse groups from Kindergarten to college level. Teresa is also involved in several National Science Foundation grants, including *Adventures at Nanoscale: Superconductivity* and *Quarked! Adventures in the Subatomic Universe* which includes a website that features online games, animated videos and more.

Bekkah Lampe is the Museum Educator and summer camp lead at the University of Kansas Natural History Museum. Born and raised in Maryland—famous for its blue crabs—she holds a Bachelor of Science in biology from the University of Maryland Baltimore County and a Master of Arts in ecology, evolution and marine biology from the University of California, Santa Barbara. Bekkah has conducted fieldwork in Puerto Rico, Santa Barbara, and San Diego, and worked for the education departments of the Carolina Raptor Center in North Carolina, the Maryland Science Center and the Ty Warner Sea Center in California. Since coming to Kansas, Bekkah has taught hands-on science workshops for schools, written science poems to explore the museum and created a series of short animated online videos to explore science topics.



Susan Stagg-Williams is a Professor of Chemical and Petroleum Engineering at the University of Kansas. She is also serving as the Faculty Athletics Representative for KU. Susan grew up in Michigan and earned a bachelor's degree in Chemical Engineering from the University of Michigan. She moved to Oklahoma to get her PhD and then came to the University of Kansas in 1999. She loves to teach and has been active in running science camps since arriving at KU. Susan has an active research program specializing in catalysis for the production of alternative fuels. She is the co-originator and director of the KU Biodiesel Initiative which converts used cooking oil from the campus dining services into high quality transportation fuel. She is also the leader of the "Feedstock to Tailpipe®" research team which looks at sustainable feedstocks for the production of next generation liquid fuels. The multidisciplinary team includes more than 25 faculty, scientists, and students from chemical, mechanical and civil, architectural and environmental engineering, as well as ecology and evolutionary biology, and geography. The team is currently investigating the production of biofuels from waste-water fed algae.

<p>Lab 1: What's in That Dirty Mouth? Presenter: Susan Bjerke Room location: ST 124</p>	<p>Lab 10: Debunking Kansas Stereotypes with Maps Presenter: Jenny Lanning-Rush, USGS and Erika Stanley, KWO Room location: Benton 212</p>
<p>Lab 3: Toss Out Your "Salad"-monella Presenter: Stacey Sandstrom and Christy Wiens Room location: ST 128 Websites: http://www.cdc.gov/foodsafety/index.html, http://www.foodsafety.gov/, http://www.mars.com/global/brands/chocolate.aspx</p>	<p>Lab 11: Volcanoes! Presenter: Association for Women Geoscientist from KU (Blair Schneider) Room location: ST 122</p>
<p>Lab 4: Who Dunit? Presenter: Sue Salem and Sam Leung Room location: ST 108 Websites: http://www.hometrainingtools.com/forensic-science-projects/a/1227/ http://www.chemguide.co.uk/analysis/chromatography/paper.html#top</p>	<p>Lab 12: Life within Life Presenter: Rodrigo Mercader, Jason Emry Room location: ST 022 Websites: http://www.jove.com/video/197/layers-symbiosis-visualizing-termite-hindgut-microbial, http://www.nybg.org/bsci/lichens/lichen.html, http://www.biologycorner.com/worksheets/nasonia.html</p>
<p>Lab 5: Why do you Run so Fast? Presenter: Whitney Kinyua Room location: Petro 104 Websites: http://www.apta.org http://www.bls.gov/ooh/healthcare/physical-therapist-assistants-and-aides.htm http://www.bls.gov/ooh/healthcare/physical-therapist</p>	<p>Lab 13: Let's Make Some Weather! Presenter: Jenifer Bowen, Emily Heller, Audra Hennecke, Jenni Laflin Room location: ST 130</p>
	<p>Lab 14: Archaeological Investigation of a Pawnee Earthlodge Presenter: Virginia Wulfkuhle Room location: Kansas Room (Memorial Union)</p>
<p>Lab 6: Brr... It's Cold Outside Presenter: Katie Becklin-Atkinson Room location: ST 105</p>	<p>Lab 15: Thing Aren't Always As They Seem Presenter: Linzi Gibson and Jericho Hockett Room location: Henderson 103</p>
<p>Lab 7: How to Save a Life: The science behind CPR Presenter: Amy White Room location: Petro 205 and Whiting 359 Websites: http://www.heart.org, http://www.redcross.org, http://www.discovernursing.com</p>	<p>Lab 16: Bits, Bytes, Notes and Cyphers Presenter: Donna LaLonde, Beth Tittsworth and Catherine Hunt Room location: Garvey</p>
	<p>Lab 17: Caves and Sinkholes: How and why they form Presenter: Blair Schneider Room location: ST 118</p>
<p>Lab 8: Have a heart (and lungs) Presenter: Dr. LewAnn Schneider, Dr. Becky Pfannenstiel, Danielle LeDoux Room location: ST 016</p>	<p>Lab 18: We've Got a Bleeder! Presenter: Karen Garrison Room location: Petro 226/226A Websites: http://www.nata.org/athletic-training, http://www.abpishools.org.uk/page/modules/skin/index.cfm?coSiteNavigation_allTopic=1</p>
<p>Lab 9: What Lies Beneath? Presenter: USGS (Chelsey Paxson and Megan Maksimowicz) Room location: ST 110 Websites: http://faculty.gvsu.edu/videticp/stratification.htm, http://waterontheweb.org/under/lakeecology/05_stratification.html</p>	