

Summer 2011
Volume 15
Issue 2

MISSOURI ENVIRONMENTAL EDUCATION ASSOCIATION

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The MEEA Newsletter is published quarterly by the Missouri Environmental Education Association. Comments or Questions may be directed to Jan Weaver, 208 Tucker Hall, MU, Columbia MO 65211

President's View by Mike Kromrey: The Need for Environmental Education

Summer is almost here, although the summer weather decided to arrive a week ago and stay for good. In our corner of the state we have had a strange spring, with epic flood events punctuated by tornados, including the horrible Joplin EF-5 twister that erased a huge swath of the city.

Nationally, fires in the west continue to break records, and the drought in New Mexico is reportedly more severe than the Dust Bowl. Globally, the Amazon has just come through its second hundred year drought event in the past five years; Australia, Pakistan, and New Zealand are still reeling from recent mega floods, and so much more.

What do all of these events have in common? I think they all underscore the need for environmental education. Our environment affects the economy and well being of every community and person in our increasingly interconnected planet. It is our job to help people better understand science and the environment to help us face the intensifying challenges of our time. Ecology is no longer an elective. With MEEA we need to continue to strive for improving Environmental Education in any avenues we can.

Sincerely,

Mike Kromrey
2011 MEEA President



NAAEE 40TH ANNUAL CONFERENCE

Raleigh-Durham, North Carolina • October 12-15, 2011

NAAEE Conference
October 12-15,
Raleigh Durham, NC

Early Registration Deadline
August 11, 2011
<http://www.naaee.net/conference>

Statewide Conferences and Workshops

- July 1 – Deadline for Submissions to Interface 2011 Conference, February 23 to 28 – <http://dese.mo.gov/divimprove/curriculum/conference/>
- July 17 to 22 - Missouri Minerals Education Foundation Workshop - <http://www.mmef.org/>
- September 12-15 - Association of Missouri Interpreters Conference - Farmington - http://www.mointerp.net/?page_id=8
- October TBA - Missouri Trail Summit - <http://www.mopark.org/displaycommon.cfm?an=3>
- October 7 and 8 - Science Teachers of Missouri/Missouri Environmental Education Association Joint Conference - Lange Middle School, Columbia - <http://www.stom.org/events.php?action=eventDetails&eventUID=71>
- October 18 and 19 - Greening Midwest Communities Conference - Capitol Plaza Hotel, Jefferson City - <http://muconf.missouri.edu/gmcc3/index.html>
- February 23 to 25 (A) and 26 to 28 (B) – Interface 2011 A & B - <http://dese.mo.gov/divimprove/curriculum/conference/>

National Environmental Events and Conferences

- June 22 thru 24 - Greening the Heartland 2011: Breaking New Ground - Duke Energy Convention Center, Cincinnati - <http://www.greeningtheheartland.org/index.htm>
- June 25 - Great American Backyard Campout - http://online.nwf.org/site/PageNavigator/gabc_2010_home
- August 1-7 - Family Nature Summit - YMCA Ozarks, Potosi MO - <http://www.meetup.com/Family-Nature-Summits/>
- October 12-15 - North American Association for Environmental Education Conference - Raleigh-Durham - <http://www.naaee.net/conference>

New EE Curricula (more examples at <http://www.meea.org/curriculum.shtml>)

The Fish Game by The Cloud Institute for Sustainability This online game is designed to teach sustainability by demonstrating the problems overfishing can cause. Players fish for 10 days, earning money for each fish, along with other people doing the same. They learn the rate that the lake restocks the fish population over the 10-day period and how to balance that with their own needs as well as having to consider what impact others are having on the fish population. <http://www.cloudinstitute.org/fish-game>

Using Parks for Education The National Recreation and Park Association released five monographs by a team of expert researchers led by Dr. John L. Crompton of Texas A&M University. A synopsis summarizes the key categories in which parks and recreation contribute to building of healthy, vibrant communities: physical health, mental health, social functioning, youth development, environment, and economic impact. http://www.nrpa.org/research-papers/?utm_source=research_2011&utm_medium=email&utm_term=may6&utm_content=full_list&utm_campaign=eml_research_2011_papers_synopsi_s_may6

Biomimicry Institute Curricula The lesson plans on the Biomimicry Institute Web site provides educators with the teaching materials they need to introduce their students to the inspiring concept and powerful innovation methodology of biomimicry. Materials are relevant for all ages. <http://www.biomimicryinstitute.org/education/k-12/curricula.html>

Four Green Steps Four Green Steps.com offers free curriculum to schools with green ideas for students of all ages and a strong focus on sustainability and natural resources. The program also features a special 'one-day curriculum' perfect for substitutes or special events like Earth Day. The site also offers opportunities for students to share their projects and ideas online as well as compete for incredible prizes. <http://www.fourgreensteps.com>

Lesson Plans from EcoTipping Points Project How Success Works assembles some of the most instructive environmental success stories of restoration and sustainability and their messages into a package of powerful and engaging case studies. <http://www.ecotippingpoints.org/education/how-success-works/index.html> New IBM Game Helps Students Learn About Environmental Issues "PowerUp" challenges players to save the imaginary planet and learn engineering and science principles by carrying out missions to supply solar, wind, and water power. <http://www.powerupthegame.org/>

Missouri Environmental Education Association on Facebook - 31 Friends

AMI invites MEEA members to their annual conference, National Green Week, EPA grants announcement

Membership Report (includes renewals due but not past due)

June 2011: 106 members (74 professional, 6/18 institutional, 7 retirees, 4 students, 1 lifetime) from March 2011
March 2011: 98 members (68 professional, 6/18 institutional, 7 retirees, 4 students, 1 lifetime) from Jan 2010
February 2011: 111 members (87 professional, 5/13 institutional, 6 retirees, 4 students, 1 lifetime) from Dec 2009
January 2011: 116 members (93 professional, 5/13 institutional, 6 retirees, 4 students) from Nov 2009
December 2010: 151 members (125 professional, 5/12 institutional, 7 retirees, 6 students, 1 lifetime) from Oct 2009
November 2010: 148 members (122 professional, 7/14 institutional, 6 retirees, 6 students) from Sept 2009
October 2010: 149 members (123 professional, 7/14 institutional, 6 retirees, 6 students) from Aug 2009

NEW AND RENEWING MEMBERS

- **Welcome to New Members!** Gloria Cohen, St. Louis; Mallory Eschback, St. Louis; Chris Kalter, St. Louis, Kristen Lourenco, Chillicothe
- **Thanks to Renewing Members!** Glenda Abney, Dianne Benjamin, Keith Hannaman, Shae Johnson, Jim Jordan, Steven Juhlin, Barbara Lucks, Mona McCormack, Norma Neely, Bill O'Donnell, Mary Patterson, Elizabeth Peterson, Jenna Rhodes, Katy Mike Smaistra, and Jim Wilson

RENEWALS DUE (Name listed by mistake? Please email weaverjc@missouri.edu and I will correct the records):

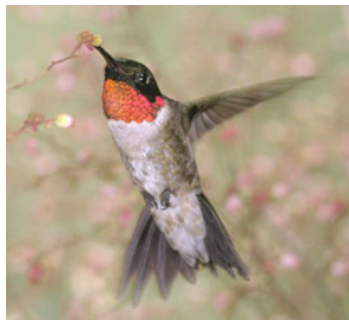
- **August** - Pat Holloway, Patrick Hosty, Mary McCarthy, Brandon Pople, Sharon Ruhnke, Henry Lee Waters
- **July** - Bernard Hill, Pamela Rodgers Hill, Amy Kilpatric, Carin Smith, John Sode
- **June** - no renewals due
- **May** - Eric Arnold, Nadine Ball, Erica Cox, Frances Fry
- **April** - Brian Peck

MEMBERSHIPS PAST DUE

- **March** - Theresa Casey, Scott Kelly, Regina Knauer, Kathleen May, Nancy McClintock, Doug Miller, Angela Pierce, Jeremy Soucy
- **February** - Byron DeLear, Ilyana Eydelman, Misty Mitchell, Jamie Paige, Angelette Prichette, Herb Turner
- **January** - Glenda Abney, Carol Harris, Judy Horton, Kelly White
- **December** - Kathleen Bockhorst, Ollie Bogdon, Jack Bowels, Tom Bratkowski, Colleen Crank, Nikki Davenport, Jim Denner, Li'Anne Drysdale, Jean Ducey, Matt Garrett, Jaclyn Johnson, Gail Johnston, Liz Lyons, Tori Mack, Judy Mitchell, Sarah Moonier, Kim Petzing, Cassandra Phillips, Nandini Rmaswamy-King, Susan Richmond, Priscilla Stotts, Gayla Tippet- Auten, Dick Turner, Lurinda Turner, Katie Zimmer.
- **November** - Aileen Abbott, David Bruns, Lorna Domke, Donna Dupske, Bridget Ebert, Sam Faith, Jamie Hubert, Bridget Jackson.
- **October** - Denise Bumb, JoAnn Carnagey, Anna Clausen, Kelly Coiner, A. D. Daniels, Kara Debacker, Jennifer Fry, Melida Gutierrez, Joe Kleiber, Nicole Knipmeyer, Eileen McManus, Norma Neely, Ruth Anne Parrott, Shanna Raerker, Jan Sassman, Hammons Schanda, Nancy Schanda, Sarah Schmitt, Cathy Wissehr.
- **September** - Bobby Jamison, Trudy Swan, Diane Swift, Joan Twillman.

**RENEW your MEEA Membership TODAY! - ONLY \$15 Professional or \$7.50 Student/Retiree
at <http://www.meea.org/membershippaypal.html>**

or send check + changes in contact information to Jan Weaver, 208 Tucker-MU, Columbia MO 65211



Ruby throated Hummingbird
Fish and Wildlife Service

EE Jobs in the Midwest Region (descriptions are edited to conserve space!)

Upper Mississippi River Coordinator Izaak Walton League of America, . Posted June 1, 2011. Quad Cities Area, Iowa and Illinois. Must have a Bachelor's degree in environmental science, agriculture, engineering, public policy or a related field. Master's preferred. Knowledge and expertise on national water and agriculture policy, at least 5 years of experience in environmental advocacy with the ability to lead and manage complex campaigns with multiple partners and parties. <http://www.ecoemploy.com/jobs/iowa.html>

NAAEE Executive Director. Washington DC. Posted June 3, 2011. The North American Association for Environmental Education (NAAEE) is seeking an Executive Director with strengths in leadership, development, communication, and collaboration with a minimum of 10 years of related job experiences. We are seeking a motivated professional interested in strengthening the organization by increasing membership, promoting member participation, and capitalizing on emerging opportunities for the field of environmental education. Providing leadership in moving forward with the organization's five-year Strategic Plan is also of key importance. An overview of the Strategic Plan can be found at <http://www.naaee.net/us/governance/stratplan>. Position listed at <http://eelinked.naaee.net/n/eelink-jobs/posts/NAAEE-Executive-Director-Search>

Interpretive Naturalist. Part Time, Year-Round. Champaign County IL. Posted June 15, 2011. Develop and present a wide variety of interpretive programs for all ages. Teach school programs and summer camps. Assist with public programs. Maintain the Homer Lake Interpretive Center's live reptile collection. May assist with kiosks and exhibits. <http://eelinked.naaee.net/n/eelink-jobs/posts/Interpretive-Naturalist-->

Part-Time-Year-Round-Champaign-County-IL Manager of Curriculum and Instruction, Morton Arboretum. Lisle IL. Posted June 10, 2011. The Manager of Curriculum and Instruction develops and manages the Arboretum's programs for children, camps, families, schools, and teachers. This includes program development, coordination with teachers and district curriculum developers, scheduling, marketing, budgeting, record-keeping, and evaluating regular programs for school classrooms, community programs and outreach, on-site field trips, in-classroom outreach programs, teacher training, and outreach to underserved schools. This staff position will work closely with the Education leadership to strive to make full use of the Arboretum's resources to help children and families explore nature and gain skills and knowledge in state and national science learning standards. This position represents the Arboretum, its mission and its resources, to families, children, youth organizations, teachers, school administrators, and students in an accurate, positive, and constructive manner. <http://eelinked.naaee.net/n/eelink-jobs/posts/The-Morton-Arboretum-seeks-a-Manager-of-Curriculum-amp-Instruction>

Western OR Eastern Regional Nature Preserve Manager with Kentucky State Nature Preserves Commission. Bowling Green KY. Posted June 10, 2011. Plans, assigns, and oversees the management activities of nature preserve management staff (Stewardship Assistant and Preserve Management Worker) and volunteers. Coordinates the implementation of preserve management plan objectives such as exotic species control, prescribed fire, wetland restoration, construction of trails and fire breaks, vegetation management, and rare species monitoring. Develops management plans for all preserves in region. Inspects assigned preserves on a regular basis. Evaluates potential acquisitions for management concerns and hazardous wastes. Conducts prescribed burns and writes burn plans. Trains staff on preserve management techniques, use of equipment, herbicides, and personal safety. Uses hand tools and power equipment such as chainsaws, leaf blowers, and weed/brush cutters. Seeks grant opportunities, prepares and submits grant applications to support work in assigned region. Makes presentations to school and civic groups. Develops interpretive trails and brochures, species lists, etc. Leads interpretive hikes. Works with local school systems to promote outdoor education on nature preserves in region. Recruits volunteers to augment regional stewardship efforts. Keeps daily records and maintains and repairs assigned equipment. Operates and maintains motor vehicles including tractors and all terrain vehicles. Prepares monthly and annual reports documenting research and management activities. Assists visiting researchers with projects. Communicates and coordinates with managing agents, private and public agencies owning dedicated preserves, law enforcement, fire, and local officials for their assistance in monitoring activities on preserves and natural areas. <http://eelinked.naaee.net/n/eelink-jobs/posts/WESTERN-REGIONAL-NATURE-PRESERVE-MANAGER-POSITION-WITH-THE-KENTUCKY-STATE-NATURE-PRESERVES-COMMISSION> or <http://eelinked.naaee.net/n/eelink-jobs/posts/EASTERN-REGIONAL-NATURE-PRESERVE-MANAGER-POSITION-WITH-THE-KENTUCKY-STATE-NATURE-PRESERVES-COMMISSION>

WHY - Whether you are teaching in a formal or non-formal situation you should *make time for assessment* for two reasons. First, **YOU** will know if you are successful in changing students (which is hugely affirming, so you will want to keep doing it) and if you are not, you will have some idea of what you need to do to become successful. Second, **OTHERS** will know you are successful so they will be more willing to provide the support you need to keep doing it.

WHAT - Assessment is an attempt to document the knowledge, skills and attitudes of your students in measurable terms. While it seems like it might be straight forward, attempts to assess are usually affected by things you have little control over. These include your students' prior knowledge (do they know colors, properties of carbon, how to pass a bill?), skills (can they read and write?) and attitudes (towards your subject and towards learning), and by cultural factors like ethnicity, socioeconomic class, gender and geography. Assessment is also complicated by the diversity of kinds of assessments and the ways they can be categorized. See the table below to get some idea if "assessment speak" is new to you.

HOW - Begin with your end in mind. *How will the students be different because they spent time with you?* What difference in knowledge, attitudes or skills do you expect to see in them? How long should it last?

- The difference you make can be simple - students able to count dragonfly larvae, sort recyclables, take care of a plant; or complex – students able to source a pollutant, organize recycling at a school, raise fresh food for inner city kids. You just need to be very clear about the specific differences you expect to see. **These are your learning objectives.**
- For simple differences the assessment may be answering an objective question or performing a simple procedure. For more complex differences you may need to break the activity into multiple steps and use a checklist of questions or actions to track accomplishment of parts of the task as well as having a rubric for the final performance or product. Be sure to think about formative as well as a summative assessment. Decide on the kinds of formative and summative assessments you will use as soon as you decide on your learning objectives, and **make a draft of the assessments to use in helping to plan your lesson.**
- As you plan the lesson, **make sure you are teaching the things you are going to assess.**
- Decide how you can **report your assessment** results as a number, either the average score on a test or the number of students that meet or exceed your standard.
- Finally, make time to **give your summative assessment as a pre-test as well as a post-test** so you can show yourself and other you made a difference!

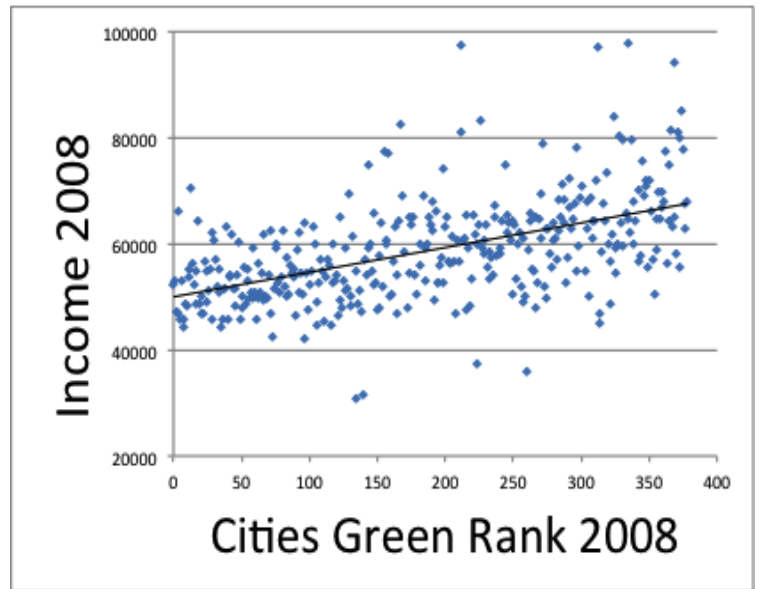
Ways Assessments can be categorized with some examples		Formative - done throughout teaching to aid learning, diagnostic, providing feedback, aka assessment for learning, substantial overlap with informal assessments like observation, checklists, peer and self evaluation	Summative - done at end of lesson, course, quarter, semester, year to assign grades, evaluative, used for ranking, aka assessment of learning, substantial overlap with formal assessments like written tests or papers
Subjective - more than one correct answer or solution, or way of presenting answer	Performance - free form, scored using a rubric on a scale as meeting, falling below or exceeding a standard	class participation oral quiz field work data collection paying attention and following directions	speech / oral presentation executing a procedure leading a class
	Product - tangible result with real world application, scored with a rubric by a trained scorer	short answer essay drafts of papers early research results garden plan uncut/unedited video	end of semester paper/poster artwork/portfolio research results garden that produces food grant proposal / business plan video
Objective - single correct answer, substantial overlap with formal assessments and high stakes testing	Performance - scored using a rubric on a scale as meeting, falling below or exceeding a standard	oral quiz following directions	no examples I can think of....
	Product - tangible result with potential real world application, scoreable by a computer	in-lecture quizzes, clickers	true false multiple choice (aka objective test) multiple response matching fill in the blank

Have PD ideas you would like to share? Submissions welcome! Contact weaverjc@missouri.edu

Every once in a while someone claims that being "green" is bad for the "economy. Is that really true? To answer that question, I used data from Forbes for the greenness of states, from Better Homes and Gardens' "Country Home" magazine for the greenness of cities, from the Census Bureau for median household income and from the Bureau of Labor Statistics for unemployment.

If being green was bad for the economy, then household income should be lower in greener states and cities and/or unemployment should be higher. I made four comparisons, 1) State Score to Income, 2) State Score to Unemployment, 3) City Rank to Income, and 4) City Rank to Unemployment

Incomes were higher in greener states and cities, but the relationship was only statistically significant for cities. The graph on the right shows the relationship between a city's greenness and its income. Moving up 10 places correlated with an extra \$460 per year in household income. Unemployment showed no relationship to greenness for either states or cities.



This doesn't prove being green *causes* higher incomes, it could be the other way around, or there could be some third factor that causes both measures to change the same way. However, it is clear that *being green doesn't hurt incomes*.

It is also safe to conclude that *being green doesn't cost jobs*. Even if some industries might be negatively affected by green regulations, these losses must be offset, somehow, by the creation of new (higher paying?) jobs in other sectors.

Missouri has seven ranked cities (Columbia 297, Jefferson City 246, Springfield 192, Kansas City 191, St Louis 188, St. Joseph 130, Joplin 116, listed most to least green) with about 523,000 households. If greenness causes incomes to increase, moving our cities up just one point would mean an additional \$24 million (523,000 x \$46) in income.

DATA DETAILS

Forbes Magazine (in 2007) scored U.S. states for greenness using carbon footprint (from the Energy Information Administration), air quality (using the American Lung Association 2007 State of the Air Report on Metro areas), water quality (using the Public Interest Research Group Water Assessment for 2007), hazardous waste management (using 2005 EPA data), policy initiatives (using the American Council for an Energy Efficient Economy Energy Efficiency Score Card), and energy consumption (compiled from vehicle miles traveled, alternative fuel and hybrid cars per capita, number of buildings with LEED Certification). Green States - http://www.forbes.com/2007/10/16/environment-energy-vermont-biz-beltway-cx_bw_mm_1017greenstates.html

Better Homes and Gardens' "Country Home" Magazine (in 2007 and 2008) ranked the top 379 Metropolitan Statistical Areas (MSAs) in the United States using data from Sperling's Best Places, the Census Bureau, the U.S. Green Building Council, the Department of Transportation, the EPA, the USDA and other sources. They looked at 24 kinds of data including air and watershed quality, mass transit usage, power usage, farmers' markets, number of green-certified buildings, etc. I reversed rankings (#1 became #379 and so on), so the effect of greenness in a graph would be more clear. Green Cities - <http://www.countryhome.com/greencities/index.html>

Median income by MSA, 2008, download CSV spreadsheet -<http://finder.geocommons.com/search?query=tag%3A%22median%22>
 Bureau of Labor Statistics Unemployment - <http://www.bls.gov/news.release/metro.t01.htm>

The table below shows the results of the correlation analyses. The t test indicates how much the results differ from what you would expect by chance. Only the test for city income showed a result significantly different from a chance outcome.

	n	Corr	Slope	t test	Sig?
State Income	50	+ 0.6	+ 668	t = 1	no
State Unempl	50	- 0.0	- 0	t = 0	no
City Income	379	+ 0.5	+ 46	t = 140	.001
City Unemp	379	- 0.1	- 0	t = 0	no

Have an idea for a topic? Submissions welcome!
 Contact weaverjc@missouri.edu

Professional Development Workshops

Sorted first by region - NW to SE - then by date; date, title, MEEA Category -(1), (2) or (3) - location - webpage or email
MEEA Workshop Categories - Category 1: environmental education objectives; includes at least three activities; furnishes background information; supplies resources or references; incorporates a glossary; and includes an evaluation. These workshops must be approved by MEEA. **Workshops already approved for college credit are automatically approved for Category 1 Workshops.** Category 2: structured outdoor experiences. Category 3 : EE resources. Some workshops may have fees. College credit courses will have tuition fees. Some workshops have pre-registration deadlines, act quickly if you would like to attend. Additional workshops at <http://www.meea.org/profdevcalendar.shtml>. Certification Program information at <http://www.meea.org/certification.shtml>

Northwest (Cameron, St. Joseph, Maryville, Trenton)

- July 10 - Summer Tree ID (2)- 8:00 am to 10:00 am, Parma Woods Rand and Outdoor Education Center - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 10 - Shooting Sports and Activities (2)- 1:00 pm to 3:00 pm, Parma Woods Range and Outdoor Education Center - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 20 - Discover Nature Women Intro to Archery (2) - 5:30 pm to 8:30 pm, Parma Woods Range and Outdoor Education Center - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 27 - Project WET and WILD Workshops (1) - 8:00 am to 5:00 pm, Pony Express Conservation Area - <http://mdc.mo.gov/education/workshops>
- July 29 - Discover Nature Families Froggin' Clinic (2)- 6:00 pm to 8:00 pm, Parma Woods Range and Outdoor Education Center - try frog legs, learn ins and outs of froggin, and then go find some - <http://mdc.mo.gov/events/region/05/heading/Northwest>

Northeast (Hannibal, Kirksville, Macon, Mexico, Moberly)

- August 4 - Nature Unleashed Workshop 3rd and 5th Grades (1) - 9:00 am to 4:00 pm, Cuivre River State Park, Troy - <http://mdc.mo.gov/education/workshops>

Kansas City (Blue Springs, Excelsior Springs, Grandview, Gladstone, Kansas City, Lee's Summit, Liberty, Sedalia, Warrensburg)

- June 21 - C = MDC2 (Conservation Mathematics) (1)- 9:00 am to 4:00 pm, Anita B. Gorman Discovery Center, Kansas City - <http://mdc.mo.gov/education/workshops>
- June 23 - Curriculum in a Box (Discovery Trunks) (1) - 9:00 am to Noon, Anita B. Gorman Discovery Center, Kansas City - <http://mdc.mo.gov/education/workshops>
- June 24 - Discover Nature Women Let's Go Canoeing (1) - 9:00 am to Noon, Burr Oak Woods Nature Center, Kansas City, women and girls 14 to 17 with adult woman, - <http://mdc.mo.gov/events/location/Burr%20Oak%20Woods/heading/Burr%20Oak%20Woods%20Nature%20Center>
- July 20 to 22 - Natural Resource Management Workshop (1) - 8:00 am to 5:00 pm, Anita B. Gorman Conservation Discovery Center, Kansas City - <http://mdc.mo.gov/education/workshops>
- July 23 and 30 - Bike Maintenance for Everybody (2)- 10:00 am to Noon, both days, Plaza Library, Kansas City, \$14 - <http://bikewalkkc.org/civicrm/event/info?reset=1&id=42>
- July 26 to ? - Nature Unleashed 3rd through 5th grade (1) - Burr Oak Woods, Blue Springs - <http://mdc.mo.gov/education/workshops>
- July 26 - Conserving Missouri's Aquatic Ecosystems 5th through 8th - 8:30 am to 4:00 pm, Burr Oak Woods, Blue Springs - <http://mdc.mo.gov/education/workshops>
- July 26 - Discover Nature in the City through Curriculum Connections - 8:00 am to 5:00 pm, Burr Oak Woods and Anita B. Gorman Discovery Center, Kansas City - <http://mdc.mo.gov/education/workshops>
- July 27 - Educator Open House (3) - 8;30 am to 5:00 pm, Anita B. Gorman Conservation Discovery Center, Kansas City - <http://mdc.mo.gov/education/workshops>

Central (Columbia, Rocheport, Jefferson City, Marshall)

- June 21 - Outdoor Inquiry: Tools and Techniques (1) - Prairie Fork Conservation Area, Williamsburg (40 min east of Columbia) - <http://mdc.mo.gov/education/training>
- June 25 - Beautiful Yards for a Healthy Lake Workshop (2)- 9:00 am to 3:30 pm, Lodge of 4 Seasons, Valencia Room, \$10 - <http://www.soslowa.org/byhl.html#beautiful>
- July 7 - Integrated Pest Management Field Day (2)- Bradford Farm, Columbia - <http://aes.missouri.edu/bradford/events/>

St. Louis (St. Louis, St. Louis Co Cities, Sullivan, Washington)

- June 25 - Nighttime Insect Safari (2)- 8:30 pm to 11:00 pm, Shaw Nature Center, Gray Summit, families, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING

- June 25 - Wildflower Identification and Ecology (2)- 9:30 am to noon, Shaw Nature Center, Gray Summit, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 25 - Canoe Poling Clinic (2) - 9:00 am to 1:00 pm, Meramec River at Route 66 Park near Eureka - http://mostreamteam.org/Whats_Happening.asp
- June 27 and 30 - Seasonal Animal Explorations for Young Learners:K-3 Teachers (1) - 8:00 am to 4:00 pm both days, St. Louis Zoo, \$, graduate credit available - <http://www.stlzoo.org/education/forteachers/summerteacherprograms.htm>
- June 28 - Cashing in on Home Comfort (2)- 6:30 pm to 8:00 pm, Commerce Bank Center for Science Education, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 29 thru July 1 - Midwest Sustainability Educators Institute (1)- 8:00 am to 3:00 pm, St. Louis Area, \$100 (housing for additional fee), - <http://www.resourcefulschools.org/teachers/training-workshops/summer-2011-professional-development-workshops>
- July 6 thru 8 - People and Plants Ethnobotany Class (1) - 9:00 am to 4:00 pm, Commerce Bank Education Center, \$150 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 9 - Flying Wild Educator Workshop (1) - 9:00 am to 1:00 pm, Dana Brown Center, Shaw NR Gray Summit, \$50 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 19 and 20 - GEMS Workshop: Investigating Seasonal Changes (1) - 9:00 am to 4:00 pm, Dana Brown Center, Shaw NR Gray Summit, \$150 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 13 to July 22 - Voyager of Learning Teacher's Academy (1) - 8:00 am to 3:00 pm, Forest Park, St. Louis- <http://mdc.mo.gov/education/workshops>
- July 15 - Camp Earthways Open House (view Young Green Builders Designs)(3) - 2:00 pm to 4:00 pm, Commerce Bank Center for Science Education FREE - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 23 - Volunteer Water Quality Monitoring Validation Workshop (2) - 9:00 am to 11:00 am, Meramec State Park Visitors Center - http://mostreamteam.org/Whats_Happening.asp
- July 27 - Growing Up WILD (1) - 8:30 am to Noon, Dennis and Judith Jones Visitor Center, Forest Park, St. Louis- <http://mdc.mo.gov/education/workshops> July 30 - Wildflower Identification and Ecology (2) - 9:30 am to noon, Shaw Nature Reserve, Gray Summit, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- August 1 - Geocology: Reading Missouri's Rocks and Landscapes (1) - 8:30 am to 3:30 pm, Rockwoods Reservation, St. Louis - July 28 - <http://mdc.mo.gov/education/workshops>
- August 3 - Nature Unleashed Workshop 3rd and 5th grades(1) - 9:00 am to 4:00 pm, Powder Valley Nature Center , St. Louis - <http://mdc.mo.gov/education/workshops>
- August 6 - Mushroom Identification: 10 Common Mushrooms Part II (2) - 10:00 am, St. Louis area - <http://www.missourimycologicalsociety.org/calendar.html> August 10 - Environmental Experiences for Early Childhood (1) - 9:00 am to 3:00 pm, Carriage House, Shaw Nature reserve, Gray Summit - <http://mdc.mo.gov/education/workshops>
- August 19 - Touring Green Buildings, Local Leaders in Sustainability (3) - 2:00 pm to 5:30 pm, Commerce Bank Center for Science Education, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING

Southwest (Bolivar, Branson, Carthage, Joplin, Lebanon, Marshfield, Monett, Nixa, Ozark, Springfield)

- June 23 - Project Learning Tree for Educators (1) - 9:00 am to 3:30 pm, Springfield Regional MDC Office - <http://mdc.mo.gov/education/workshops>
- June 25 - Family Camping Relay - Roaring River State Park, Cassville, includes campfire building, tent pitching, water relay, cooler packing and more (2)- <http://mostateparks.com/park/roaring-river-state-park>
- June 28 - Medicinal and Edible Plants of the Ozarks (2)- 5:00 pm to 6:30 pm or 6:30 to 8:00 pm, Springfield Conservation Nature Center, guided hike with Bob Liebert, 15 and up - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- June 28 - Discover Nature Women: Beginning Catfishing (2)- 6:30 pm to 8:30 pm, Springfield Conservation Nature Center, 12 to 17 with adult and 18 and up - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- July 14 - Habitats for Teachers (1) - 9:00 am to 5:00 pm, MDC Southwest Regional Office, Springfield - <http://mdc.mo.gov/education/workshops>
- July 20 and 21 - Field Aquatics for Teachers (1) - 9:00 am to 5:00 pm and 9:00 am to 3:00 pm, Southwest Regional Office, Springfield - <http://mdc.mo.gov/education/workshops>
- July 21 - Field Aquatics for Teachers (1) - 9:00 am to 5:00 pm and 3:00 pm, MDC Southwest Regional Office, Springfield - <http://mdc.mo.gov/education/workshops>

- July 28 - Nature Unbound (1) - MDC Southwest Regional Office, Springfield - <http://mdc.mo.gov/education/workshops>
- August 11 or 16 - Master Naturalist Training Orientation (2)- 6:30 pm, MDC Regional Office, 2630 Mayfair Drive, Springfield - <http://www.ozarksenvironment.com/calendar.html>

Ozark (Cabool, Eminence, Huston, Mountain Grove, Rolla, Saint James, Salem, Waynesville, West Plains, Willow Springs, Winona)

- August 1 to 3 - Take it Outside (1) - 1:00 pm to Noon, Missouri State Teachers' Bunker Hill Retreat, Mountain View - <http://mdc.mo.gov/education/workshops>
- July 13 - Volunteer Water Quality Monitoring Validation Workshop (2) - 6:00 pm to 8:30 pm, Eugene Northern Community Hall, Rolla - http://mostreamteam.org/Whats_Happening.asp

Southeast (Cape Girardeau, Doniphan, Farmington, Hayti, Ironton, Jackson, Kennet, New Madrid, Piedmont, Poplar Bluff, Sikeston)

- June 23 - Aquatic Ecosystem Field Experience (1)- 10:00 am to 4:00 pm, Bootheel Youth Museum, Malden - <http://mdc.mo.gov/education/workshops>
- June 28 to 30 - Insect Inquiry (1) - 8:00 am each day, Cape Girardeau Conservation Nature Center - <http://mdc.mo.gov/education/workshops>
- July 21 to 22 - Build a Field Kit (1)- 8:00 am to 5:00 pm, Cape Girardeau Conservation Nature Center - <http://mdc.mo.gov/education/workshops>
- July 22 - Goin' Froggin' (Discover Nature Women) (2)- 7:00 pm to 12:00 am, Cape Girardeau Conservation Nature Center, learn ins and outs of frogging for women 14 years and older (under 18 must be accompanied by adult) - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 30 - Orienteering Treasure Hunt (2) - 10:00 am to Noon, Cape Girardeau Conservation Nature Center, first 10 families, ages 8 and up - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- August 6 - Conserving Missouri's Aquatic Ecosystems 5th and 8th Grades (1)- 9:00 am to 4:00 pm, Cape Girardeau Conservation Nature Center - <http://mdc.mo.gov/education/workshops>
- August 6 - Canoeing Basics (Discover Families) (2) - 9:00 am to 11:00 am, Cape Girardeau Conservation Nature Center, kids and families 8 and up, limited to 8 families- <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- August 6 - Canoeing Basics (Adults Only) (2)- noon to 2:00 pm, Cape Girardeau Conservation Nature Center, 18 years and up, registration required - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- August 13 - Discover Nature Schools Nature Unleashed 3rd and 5th Grades (1) - 9:00 am to 4:00 pm, Cape Girardeau Conservation Nature Center - <http://mdc.mo.gov/education/workshops>

Statewide

- June 29 to July 1 - Midwest Sustainability Educators Institute (1) - 8:00 am to 3:00 pm, Webster University, \$100 (housing for additional fee) - <http://www.resourcefulschools.org/teachers/training-workshops/summer-2011-professional-development-workshops>
- July 17 to 22 - Missouri Minerals Education Foundation Workshop - <http://www.mmef.org/>

National

- October 12-15 - North American Association for Environmental Education Conference - Raleigh-Durham - <http://www.naaee.net/conference>

Grants, Awards, Scholarships and Other Opportunities

- **Society for Environmental Toxicology and Chemistry Environmental Education Award.** June 30,2011. \$1000. An individual, group, organization or corporation for a significant contribution to environmental education by educating educators or by working with community groups and K-12 programs that enhance environmental literacy in youth or public. <http://www.setac.org/node/69>
- **Agri Missouri School and Community Garden Contest.** July 30, 2011. Heirloom fruit trees, tools and supplies, State Fair tickets. Registered community/church/school gardens with essay and photo. Gardens decided by on-line votes. <http://agrimissouri.com/gardens/gardens10K/contest/info/1>
- **Connect Grants for Culturally-Diverse Communities.** August 1, 2011. \$500 to \$2500. Organizations and people that serve culturally diverse communities. Funds for Leave No Trace materials and/or to cover tuition of a Master Educator Course. <http://Int.org/programs/grants.php>

- **Open Spaces Sacred Places Planning Awards.** September 1, 2011. Cross-disciplinary teams that conceptualize, plan, design and implement a physical space, conduct associated research studies and disseminate findings. <http://www.opensacred.org/grants>
- **Lexus Eco Challenge.** September 26, 2011 Challenge 1: Land/Water opens September 26, 2011, closes October 31, 2011; Air/Climate opens November 7, 2011, closes December 19, 2011; Final Challenge opens January 9, 2012, closes February 20, 2012.. \$10,000 each for Sixteen teams (2 middle school, 2 high school in each of the four Lexus market regions) for air/climate and land/water challenges, \$30,000 for grand prize winners. Design and implement a plan to address a local environmental issue, prepare and present a power point on your project. <http://www.scholastic.com/lexus/>
- **Toshiba K-5 Grades Grants.** October 1, 2011. \$1000. Public and private (nonprofit) teachers for a set of lessons and/or hands on project they would like to teach. <http://www.toshiba.com/taf/k5.jsp>

For other resources, visit **EE Link** - <http://eelink.net/grants-generalinformation.html> or **Grant Wrangler** <http://www.grantwrangler.com/index.html>

Calendar of Selected EE Events [more events at http://www.meea.org/events.html](http://www.meea.org/events.html)

Northwest (Cameron, St. Joseph, Maryville, Trenton)

- June 25 - Creatures of the Night - Crowder State Park, Trenton - 2:00 pm (Crafts), 5:00 pm (Program), 7:00 pm (Marshmallow Roast), 8:00 pm (Night Hike) - <http://mostateparks.com/event/58878/creatures-night>
- June 28 - Intro to Basic Archery - 9:00 am to Noon, Parma Woods Range and Outdoor Education Center - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 6 to 8 - Youth Outdoor Skills Camp (3 days) - 9:00 am to 3:00 pm, Parma Woods Range Center, archery, fire-building, casting, wilderness survival, basic first aid - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 10 - Summer Tree ID - 8:00 am to 10:00 am, Parma Woods Rand and Outdoor Education Center - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 10 - Shooting Sports and Activities - 1:00 pm to 3:00 pm, Parma Woods Range and Outdoor Education Center - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 20 - Discover Nature Women Intro to Archery - 5:30 pm to 8:30 pm, Parma Woods Range and Outdoor Education Center - <http://mdc.mo.gov/events/region/05/heading/Northwest>
- July 29 - Discover Nature Families Froggin' Clinic - 6:00 pm to 8:00 pm, Parma Woods Range and Outdoor Education Center - try frog legs, learn ins and outs of froggin, and then go find some - <http://mdc.mo.gov/events/region/05/heading/Northwest>

Northeast (Hannibal, Kirksville, Macon, Mexico, Moberly)

- July 1 to 3 - Family Adventure Weekend - Milkweed Mercantile, Rutledge - horse care, pond swimming, nature crafts, \$93 for kids, \$45 adults, accommodations extra- <http://milkweedmercantile.blogspot.com/2011/02/milkweed-mercantile-summer-seminars.html>
- July 15 to 17 - Family Adventure Weekend - Milkweed Mercantile, Rutledge - horse care, pond swimming, nature crafts, \$93 for kids, \$45 adults, accommodations extra- <http://milkweedmercantile.blogspot.com/2011/02/milkweed-mercantile-summer-seminars.html>
- September 3 & 4, 7 & 8, 17 & 18, 18 & 19, 21 & 22- Picking and Preserving Organic Apples - Milkweed Mercantile, Rutledge - \$63 for adults, \$43 for children plus accommodations and you-pick apples - <http://milkweedmercantile.blogspot.com/2011/02/milkweed-mercantile-summer-seminars.html>
- September 10 to 11 - Discover Nature Families, Catfish Camp - 9:00 am, Ted Shanks and DuPont Reservation Conservation Areas - <http://mdc.mo.gov/events/region/04/heading/Northeast>

Kansas City (Blue Springs, Excelsior Springs, Grandview, Gladstone, Kansas City, Lee's Summit, Liberty, Sedalia, Warrensburg)

- June 23, 30 - Nature Story Time - 10:00 am to 10:45 am or 11:00 to 11:45 am, George Owens Nature Park, Independence, 2 to 5 years old - <http://www.ci.independence.mo.us/parksandrec/Calendar.aspx>
- June 23, 24 and 25 - Explorer Day Camp - 10:00 am to 2:00 pm on the 23rd and 10:00 am to Noon on 24-25, Knob Noster State Park, 7 to 12 years old, earn an Explorer Patch - [http://mostateparks.com/events?park\[\]=52546](http://mostateparks.com/events?park[]=52546)
- June 24 - Starry Night Hike - 9:30 to 10:30 pm, George Owens Nature Park, Independence- <http://www.ci.independence.mo.us/parksandrec/Owens.aspx>
- June 24 - Get Your Grow On Cook Off! - 6:00 pm to 7:30 pm, Loose Park Pavilion, enter local dish, only 30 entries accepted, \$10 entry fee, fabulous prizes for the winners - <http://urbanfarmstourkc.com/>
- June 24 - Discover Nature Women- Let's Go Canoeing - 9:00 am to Noon, Burr Oak Woods Nature Center, Kansas City, women and girls 14 to 17 with adult woman, - <http://mdc.mo.gov/events/location/Burr%20Oak%20Woods/heading/Burr%20Oak%20Woods%20Nature%20Center>
- June 25 - Camping Presentation: then and Now - Harry S Truman State Park, Warsaw - [http://mostateparks.com/events?park\[\]=53450](http://mostateparks.com/events?park[]=53450)

- June 25-26 - KC Urban Farms and Gardens Tour - 10:00 am to 5:00 pm, Kansas City - <http://urbanfarmstourkc.com/>
- June 25 - Poe Creek Cleanup -10:00 am, 6401 NE 54, Kansas City - http://mostreamteam.org/Whats_Happening.asp
- June 26 - Local Farmer and Food Artisan Road Tour - 11:00 am to 4:00 pm, Whole Foods, 119th in Overland Park Kansas - <http://www.bridgingthegap.org/egap.php?id=116>
- June 28 and June 29 - Discovery Days Summer Camp - 10:00 am to 2:30 pm, both days, Anita B. Gorman Conservation Discovery Center, 10 to 14 years old - <http://mdc.mo.gov/events/location/Discovery%20Center/heading/Discovery%20Center>
- June 28 - Gardening with Nature Series: Good Bugs, Bad Bugs - 3:00 pm to 5:30 pm, Powell Gardens, Kingsville - <http://www.powellgardens.org/default.asp?page=Calendar>
- June 30 and July 1- Discovery Days Summer Camp - 10:00 am to 2:30 pm, both days, Anita B. Gorman Conservation Discovery Center, 10 to 14 years old - <http://mdc.mo.gov/events/location/Discovery%20Center/heading/Discovery%20Center>
- June 30 - Rain Barrel Workshop - 6:00 pm to 7:00 pm, 3 Trails Community Recycling Center, \$65 per barrel- <http://www.bridgingthegap.org/egap.php?id=116>
- July 1through August 31 - Geo-Quest - July through August, geocaches will be hidden in 10 Independence Parks this summer. Pick up manifest at George Owens Nature Park, free GPS class for first time users on July 2, 10:00 am to 11:00 am - <http://www.ci.independence.mo.us/parksandrec/Calendar.aspx>
- July 1, 8, 15, 22, 29- Tadpole Trekking - 10:00 am to 11:00 am, George Owens Nature Park, Independence, 3 to 6 years old with adult - <http://www.ci.independence.mo.us/parksandrec/Calendar.aspx>
- July 2 - Farm to Table: Groovalicious Fruit - 8:00 am to 2:00 pm, City Market, KC - <http://www.thecitymarket.org/>
- July 2 - Astronomy: It's Out of This World - 8:30 pm to 10:00 pm, Knob Noster State Park, Mercury, Saturn's rings, Titan - [http://mostateparks.com/events?park\[\]=52546](http://mostateparks.com/events?park[]=52546)
- July 6 - Go Wild! Nature Basics - 10:00 am to Noon, Burr Oak Woods Nature Center, ages 3-5 years with adult - <http://mdc.mo.gov/events/location/Burr%20Oak%20Woods/heading/Burr%20Oak%20Woods%20Nature%20Center>
- July 7, 14, 21, 28 - Nature Story Time - 10:00 am to 10:45 am or 11:00 to 11:45 am, George Owens Nature Park, Independence, 2 to 5 years old - <http://www.ci.independence.mo.us/parksandrec/Calendar.aspx>
- July 7 - Go Wild: No WII Needed Nature Games - 9 :00 am to Noon, Burr Oak Woods Nature Center, Kansas City, 6 to 8 years old with adult - <http://mdc.mo.gov/events/location/Burr%20Oak%20Woods/heading/Burr%20Oak%20Woods%20Nature%20Center>
- July 9 - Geocaching - 9:30 am, 1 to 2 hours, Stoll Park, Overland Park, fees apply - http://www.jcprd.com/activities/class_listing.cfm?ClassID=14589&ITS=1
- July 9 - Nature Dogs - 10:00 am to 11:00 am, George Owens Nature Park, Independence, well behaved, vaccinated, socialized dogs, bring leash, waste bags, water - <http://www.ci.independence.mo.us/parksandrec/Calendar.aspx>
- July 9 - Herb Walk - 10:00 am, Beanstalk Children's Garden, 6917 Kensington, Kansas City - <http://www.kccg.org/events-workshops>
- July 15 - Fall Vegetable Gardening - Beanstalk Children's Garden, 6917 Kensington, Kansas City - <http://www.kccg.org/events-workshops>
- July 16 - Snakes Alive - 7:00 pm to 8:00 pm, Knob Noster State Park - [http://mostateparks.com/events?park\[\]=52546](http://mostateparks.com/events?park[]=52546)
- July 16 - Dragonfly Day - 10:00 am to 4:00 pm, Powell Gardens, Kansas City, free with admission - <http://www.powellgardens.org/default.asp?page=Calendar&m=7&y=2011>
- July 19 - Go Wild: Friendly Frogs - 10:00 am to Noon, Burr Oak Woods Nature Center, Kansas City, 3 to 5 with adult - <http://mdc.mo.gov/events/location/Burr%20Oak%20Woods/heading/Burr%20Oak%20Woods%20Nature%20Center>

Central (Columbia, Rocheport, Jefferson City, Marshall)

- June 24 - Wildflower Folklore Walk - 10:00 am to 11:30 am, Runge Nature Center, Jefferson City, for 50 and up - <http://mdc.mo.gov/events/location/Runge/heading/Runge%20Nature%20Center>
- June 25 - Ha Ha Tonka State Park Public Meeting and Grass Weaving Demonstration - 1:00 pm to 3:00 pm, Camdenton - <http://mostateparks.com/park/ha-ha-tonka-state-park>
- June 25 - Beautiful Yards for a Healthy Lake Workshop - 9:00 am to 3:30 pm, Lodge of 4 Seasons, Valencia Room, \$10 - <http://www.soslowa.org/byhl.html#beautiful>
- June 25 - Rock Bridge Hike - 9:00 am to 11:00 am, Rock Bridge Memorial State Park, Columbia - <http://missouri.sierraclub.org/osage/calendar.htm>
- June 26 - Bike to Rocheport and Back - 3:00 pm to 6:30 pm, Katy Trail trailhead, at McBaine - <http://missouri.sierraclub.org/osage/calendar.htm>
- June 29 - Food Preservation Workshop: Water Bath Canning - 6:00 pm to 8:30 pm, University of Missouri Extension Center, 1012 N. Hwy UU, Columbia, \$15 per session - <http://columbiaurbanag.org/about/calendar.shtml>
- July 2 - Missouri Bats at River Cave - 8:15 pm to 9:30 pm, Ha Ha Tonka State Park, Camdenton - <http://mostateparks.com/park/ha-ha-tonka-state-park>
- July 2 - Pinnacles Yough Park Hike - 1:00 pm to 4:00 pm, Pinnacles Youth Park, Columbia - <http://missouri.sierraclub.org/osage/calendar.htm>

- July 6 or 9 - Nature Detectives: Forest Friends - 9:30 am to 10:30 am, Rock Bridge Memorial State Park, Columbia, ages 3 to 6 years with adult - <http://rockbridge.missouri.org/>
- July 7 - Integrated Pest Management Field Day - Bradford Farm, Columbia - <http://aes.missouri.edu/bradford/events/>
- July 9 - Name that Star - 8:30 pm to 9:30 pm, Ha Ha Tonka State Park, Camdenton - <http://mostateparks.com/park/ha-ha-tonka-state-park>
- July 12 - Pallid Sturgeon Program - 7:00 pm, Les Bourgeois Winery, Rocheport - http://mosteamteam.org/Whats_Happening.asp
- July 12 to 14 - Explorer Day Camp - 9:00 am to 3:00 pm each day, Rock Bridge Memorial State Park, Columbia - Kids 9 to 11 can earn MO State Parks Explorer Patch - <http://mostateparks.com/park/rock-bridge-memorial-state-park>
- July 12 and 13 - Crop Injury and Diagnostic Clinic - Bradford Farm, Columbia - <http://aes.missouri.edu/bradford/events/>
- July 16 or 20 - Nature Detectives: Bats in the Cave - 9:30 am to 10:30 am, Rock Bridge Memorial State Park, Columbia, ages 3 to 6 years with adult - <http://rockbridge.missouri.org/>
- July 16 - Yard to Skillet: Backyard Chicken Processing - 9:00 am to noon, 1207 Smith Street, Columbia - humane preparation of an urban hen for consumption, donations accepted, over 18 only may participate - <http://columbiaurbanag.org/about/calendar.shtml>
- July 16 - Volunteer Water Quality Monitoring Level 2 Workshop - 8:30 pm to 5:00 pm, MO Dept Conservation, 2901 W. Truman Blvd, Jefferson City - http://mosteamteam.org/Whats_Happening.asp
- July 20 - Volunteer Water Quality Monitoring Validation Workshop - 6:00 m to 8:30 pm, MO Dept Conservation Resource Science Center, Columbia - http://mosteamteam.org/Whats_Happening.asp
- August 10 - Nature Detectives: Stream Explore - 9:30 am to 10:30 am, Rock Bridge Memorial State Park, Columbia, ages 3 to 6 years with adult - <http://rockbridge.missouri.org/>

St. Louis (St. Louis, St. Louis Co Cities, Sullivan, Washington)

- June 24 - Shaw Family Adventures: Let's Go Green - 9:30 am to 11:30 am, Shaw Nature Center, Gray Summit, 3 and up with adult, \$2 each- https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 24 - Mother Nature's Child Film Premier and Reception (documentary on growing outdoors in the media age) - 7:00 pm to 9:00 pm, Powder Valley Conservation Nature Center - <http://mdc.mo.gov/events/location/Powder%20Valley/heading/Powder%20Valley%20Nature%20Center>
- June 25 - Painting with the Sun - 10:00 am to 11:30 am, Busch Memorial Conservation Area, 6 and up with families - <http://mdc.mo.gov/events/location/Busch/heading/Busch%20Conservation%20Area>
- June 25 - GO FISH, Basic Fishing II - 9:00 am to 11:00 am, Busch Memorial Conservation Area Lake 15 , 7 to 15 years with adult - <http://mdc.mo.gov/events/location/Busch/heading/Busch%20Conservation%20Area>
- June 25 - Nighttime Insect Safari - 8:30 pm to 11:00 pm, Shaw Nature Center, Gray Summit, families, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 25 - A Rainbow of Paint - 10:30 am to noon, Missouri Botanical Garden, 4 to 6 years with adult, \$18 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 25 - Wildflower Identification and Ecology - 9:30 am to noon, Shaw Nature Center, Gray Summit, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 25 - Canoe Poling Clinic - 9:00 am to 1:00 pm, Meramec River at Route 66 Park near Eureka - http://mosteamteam.org/Whats_Happening.asp
- June 25 - Get Your Child Outside! Where Can You Go and What Can You Do? - 10:00 am to 2:00 pm, Powder Valley Conservation Nature Center, all ages - <http://mdc.mo.gov/events/location/Powder%20Valley/heading/Powder%20Valley%20Nature%20Center>
- June 27 - Survivor: Day Camp - 10:00 am to 2:30 pm, Columbia Bottom Conservation Area, 9 to 13 - <http://mdc.mo.gov/events/location/Columbia%20Bottom/heading/Columbia%20Bottom>
- June 27 - Shaw Family Adventures: Fairy Houses - 9:30 am t 11:30 am, Shaw Nature Reserve, 3 and up with adult, \$2/child - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 28 - Cashing in on Home Comfort - 6:30 pm to 8:00 pm, Commerce Bank Center for Science Education, \$20 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 29 - Discover Hunting, Archery Day Camp - 9:00 am to Noon, Busch Shooting Range, 11 to 15 - <http://mdc.mo.gov/events/location/Busch/heading/Busch%20Conservation%20Area>
- June 29 - Shaw Family Adventures: Missouri Critters - 9:30 am to 11:30 am, Shaw Nature Reserve, 3 and up with adult, \$2/child - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- June 29 - Nature's Niche: It's an Indoor Pond Study - 10:00 am to 11:30 am, Powder Valley Conservation Nature Center, 50 and up - <http://mdc.mo.gov/events/location/Powder%20Valley/heading/Powder%20Valley%20Nature%20Center>
- June 30 - GO FISH, Basic Fishing III - 6:00 pm to 8:00 pm, Busch Memorial Conservation Area - Lake 15, 7 to 15 with adult - <http://mdc.mo.gov/events/location/Busch/heading/Busch%20Conservation%20Area>
- July 1 - Shaw Family Adventures: Creek Stomp - 9:30 am to 11:30 am, Shaw Nature Reserve, Gray Summit, 3 and up with adult, \$2/child - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING

- July 2 - GPS Big River and Mineral Fork - meet 7:00 am near Eureka, contact Jim at kayakswarm@charter.net for details - http://mostreamteam.org/Whats_Happening.asp
- July 7 - GO FISH, Fishing with Lures - 6:00 pm to 8:00 pm, Busch Memorial Conservation Area - Lake 15, 7 to 15 years with adult - <http://mdc.mo.gov/events/location/Busch/heading/Busch%20Conservation%20Area>
- July 9 - GO FISH, Basic Fishing 1 - 9:00 am to 11:00 am, Busch Memorial Conservation Area - Lake 15, 7 to 15 years, with adult - <http://mdc.mo.gov/events/location/Busch/heading/Busch%20Conservation%20Area>
- July 9 - Insects of the Night - 8:30 pm to 10:00 pm, Butterfly House, 7 and up with adult, \$15 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 9 - Kids, Koi and Lotus - 10:30 am to noon, Botanical Garden, 4 to 6 years with adult, \$18 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 9 - Kimmswick Clean Stream - 8:00 am to noon, Bridge in Kimmswick (off 55 near Arnold) and going down Highway K - July 2 - GPS Big River and Mineral Fork - http://mostreamteam.org/Whats_Happening.asp
- July 10 (or 13) - Campu Bugaloo: Blossoms - 1:30 pm to 3:00 pm (or 9:30 am to 11:00 am), Butterfly House, 3 to 5 years with adult, \$15 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 11 thru 15 - Camp Earthways: Young Green Builders - 9:00 am to 4:00 pm, except 7/15 ends on 2:00 pm, Commerce Bank Center for Science Education, \$185 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 14 - GO FISH, Channel Catfish - 6:00 pm to 8:00 pm, Busch Memorial Conservation Area - Lake 15 - 7 to 15 years with adult - <http://mdc.mo.gov/events/location/Busch/heading/Busch%20Conservation%20Area>
- July 14 or 15 - Native Plants that Deer Don't Eat - 1:00 to 4:00 pm, Shaw Nature Reserve, Gray Summit, \$15, reservations required - <http://www.shawnature.org/nativeland/NativePlantSchoolHomeownerSeries.aspx>
- July 15 - Camp Earthways Open House (view Young Green Builders Designs) - 2:00 pm to 4:00 pm, Commerce Bank Center for Science Education FREE - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 16 - Great Green Adventures - 10:30 am to 11:30 am or 1:30 pm to 2:30 pm, Children's Garden, 6 to 12 years with adult, \$3/child - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING
- July 16 - Exploring Bridges - 10:30 am to noon, Missouri Botanical Garden, 4 to 6 with adult, \$18 - https://www.mobot.org/iebms/coe/coe_p1_all.aspx?&oc=10&cc=educlasses#GREENLIVING

Southwest (Bolivar, Branson, Carthage, Joplin, Lebanon, Marshfield, Monett, Nixa, Ozark, Springfield)

- June 24 - Firefly Frolic - 8:00 pm to 9:00 pm, Springfield Conservation Nature Center, all ages - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- June 24 - Year of Forests Celebration - 10:00 am to noon, Springfield Conservation Nature Center - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- June 25 - Upper Big Piney River Cleanup - 8:00 am at Dogs Bluff Access, near Houston - http://mostreamteam.org/Whats_Happening.asp
- June 25 - Ha Ha Tonka State Park Public Meeting and Grass Weaving Demonstration - 1:00 pm to 3:00 pm, Camdenton - <http://mostateparks.com/park/ha-ha-tonka-state-park>
- June 25 - Camping Then and Now - Harry Truman State Park - [http://mostateparks.com/events?park\[\]=53450](http://mostateparks.com/events?park[]=53450)
- June 25 - Family Camping Relay - Roaring River State Park, Cassville, includes campfire building, tent pitching, water relay, cooler packing and more - <http://mostateparks.com/park/roaring-river-state-park>
- June 25 - Hiking Club: Busiek State Forest Trail with Naturalist Doug Gilliam - 8:00 am to 2:00 pm, Springfield Conservation Nature Center - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- June 25 - S'mores and Other Goodies - Table Rock State Park, Branson - <http://mostateparks.com/park/table-rock-state-park>
- June 26 - Summer Hummers with Sara Driver - 5:00 pm to 6:30 pm, Springfield Conservation Nature Center - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- June 28 - Tree Pest Clinic - 9:00 am to 1:00 pm, Springfield Conservation Nature Center, bring infected twigs at least 12" long or leaves - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- June 28 - Medicinal and Edible Plants of the Ozarks - 5:00 pm to 6:30 pm or 6:30 to 8:00 pm, Springfield Conservation Nature Center, guided hike with Bob Liebert, 15 and up - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- June 28 - Discover Nature Women: Beginning Catfishing - 6:30 pm to 8:30 pm, Springfield Conservation Nature Center, 12 to 17 with adult and 18 and up - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>

- June 30 - "Tree"-rific Trees - 6:30 pm to 7:45 pm, Springfield Conservation Nature Center, 7 to 12 years - <http://mdc.mo.gov/events/location/Springfield%20Conservation%20Nature%20Center/heading/Springfield%20Nature%20Center>
- July 2 - Wildflower Hike - 10:00 am to 11:00 am, Prairie State Park, Mindenmines - <http://mostateparks.com/park/prairie-state-park>
- July 16 - Explorer Camp - 10:00 am to 2:00 pm, Prairie State Park, Mindenmines - <http://mostateparks.com/park/prairie-state-park>
- July 23 - Falconry - 7:00 pm to 8:00 pm, Prairie State Park, Mindenmines - <http://mostateparks.com/park/prairie-state-park>

Ozark (Cabool, Eminence, Huston, Mountain Grove, Rolla, Saint James, Salem, Waynesville, West Plains, Willow Springs, Winona)

- June 25 - Upper Big Piney River Cleanup - 8:00 am at Dogs Bluff Access, near Houston - http://mostreamteam.org/Whats_Happening.asp
- June 25 - Stories Around the Campfire - Johnson Shut-Ins State Park - [http://mostateparks.com/events?park\[\]=51370](http://mostateparks.com/events?park[]=51370)
- June 25 - Campfire Adventure - 8:00 pm, Sam A. Baker State Park - [http://mostateparks.com/events?park\[\]=51942](http://mostateparks.com/events?park[]=51942)
- June 26 - Photo Tour of Onandaga Cave - 10:30 am to 1:30 pm, Onandaga State Park - <http://www.dnr.mo.gov/calendar/public/calendarParksListAction.do?parkNm=Onandaga%20Cave%20State%20Park>
- July 2 - Get Out and Play the Old Fashioned Way - 10:00 am to 2:00 pm, Johnson's Shut-Ins State Park - [http://mostateparks.com/events?park\[\]=51370](http://mostateparks.com/events?park[]=51370)
- July 2 - Hummingbird Banding - 11:00 am to 3:00 pm, Onandaga Cave State Park - [http://mostateparks.com/events?park\[\]=51677](http://mostateparks.com/events?park[]=51677)
- July 9 - Ozark Kids Connections (crafts, community service, hands on) - 10:00 am to 4:00 pm, Bonebrake Nature Center, for 5-15 years with adult, bring a sack lunch, 601 North Hickory, Salem - <http://bonebrake.org/activities.html>
- July 13 - Volunteer Water Quality Monitoring Validation Workshop - 6:00 pm to 8:30 pm, Eugene Northern Community Hall, Rolla - http://mostreamteam.org/Whats_Happening.asp
- July 19 - Mother Goose Goes BUGGY - 6:30 pm, Bonebrake Nature Center, preschoolers with adult, \$1 includes light refreshments, 601 North Hickory, Salem - <http://bonebrake.org/activities.html>
- July 30 - Big River GPS Trip #7 Kayakswarm - contact Jim at kayakswarm@charter.net for details on trips - http://mostreamteam.org/Whats_Happening.asp
- July 30 - Onandaga Streambank Cleanup - 9:00 am, Onandaga Cave State Park - http://mostreamteam.org/Whats_Happening.asp

Southeast (Cape Girardeau, Doniphan, Farmington, Hayti, Ironton, Jackson, Kennet, New Madrid, Piedmont, Poplar Bluff, Sikeston)

- June 21 to 24 - Outdoor Adventure Camp - 8:30 am to 4:30 pm, Cape Girardeau Conservation Nature Center, 7 to 11 years, \$20 fee (returnable once 4 day camp is complete) registration required - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- June 25 - Great American Backyard Campout - 7:30 pm, Trail of Tears State Park, presentation, night hike and s'mores - [http://mostateparks.com/events?park\[\]=52161](http://mostateparks.com/events?park[]=52161)
- June 25 - Hidden Forest Creatures - 10:00 am to 11:30 am, Cape Girardeau Conservation Nature Center, for 7-11 years - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- June 30 - River Adventure (boating on the Mississippi) - 9:00 am to Noon, Cape Girardeau Conservation Nature Center, teens 12 to 17 years, registration required - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 2 - GPS Big River and Mineral Fork - meet 7:00 am near Eureka, contact Jim at kayakswarm@charter.net for details - http://mostreamteam.org/Whats_Happening.asp
- July 8 to 9 - Summer Campout - 2:00 pm July 8 to 4:00 pm July 9 - Cape Girardeau Conservation Nature Center, for teens 12 to 17 years, registration required - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 9 - Playin' Possum - 9:00 am, 11:00 am, 1:00 pm, for 45 minutes, Cape Girardeau Conservation Nature Center, for 3-6 year olds with adults - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 12 - Playin' Possum - 9:00 am or 11:00 am for 45 minutes, Cape Girardeau Conservation Nature Center, for 3-6 year olds with adults - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 14 - Leaf Critters - 5:00 pm to 8:00 pm, Cape Girardeau Conservation Nature Center, all ages - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 15 to July 16 - Full Moon Adventure (overnight) - 7:00 pm July 15 to 9:00 am July 16, Cape Girardeau Conservation Nature Center, 7 to 11 years old, registration required - <http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>

- July 16 - Crane Lake Hike - 8:30 am to 4:30 pm, Cape Girardeau Conservation Nature Center, 8 and up, trail rated difficult, 5 mile double loop -
<http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 21 - Flower Arranging - 6:30 pm to 8:00 pm, Cape Girardeau Conservation Nature Center, bring long-stemmed cuttings and a found container, 16 years and up -
<http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 22 - Goin' Froggin' (Discover Nature Women) - 7:00 pm to 12:00 am, Cape Girardeau Conservation Nature Center, learn ins and outs of frogging for women 14 years and older (under 18 must be accompanied by adult) -
<http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 23 - Guided Trail Walk, White Oak Trace - 9:00 am to 2:00 pm, Cape Girardeau Conservation Nature Center, all ages, hikes leaving on the hour -
<http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 23 - Managing Missouri's Forests, Discovery Station - 1:00 pm to 4:00 pm, Cape Girardeau Conservation Nature Center, all ages -
<http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>
- July 30 - Orienteering Treasure Hunt - 10:00 am to Noon, Cape Girardeau Conservation Nature Center, first 10 families, ages 8 and up -
<http://mdc.mo.gov/events/location/Cape%20Girardeau/heading/Cape%20Girardeau%20Nature%20Center>

Environmental and Environmental Education News

Department of Education Starts Award for "Green" Schools - April 26, 2011

The U.S. Department of Education announced today the creation of the Green Ribbon Schools program to recognize schools that are creating healthy and sustainable learning environments and teaching environmental literacy. The new awards program will be run by the Education Department with the support of the White House Council on Environmental Quality and the U.S. Environmental Protection Agency..... The Green Ribbon Schools program will be modeled after the Department of Education's Blue Ribbon Schools Program, which annually honors public and private schools that are either high performing or have improved student achievement to high levels.

Through the Green Ribbon schools program, the Education Department, the EPA, and CEQ will recognize schools for energy conservation, creating healthy learning spaces, and teaching environmental literacy.

"Environmental literacy is an important part of a well-rounded, world-class education," Secretary Duncan said. "Through the Green Ribbon Schools program, we'll be holding up schools that are leading the way in teaching science and in ways that show students the importance of developing clean energy sources and sustainable solutions for the environment."

The application for the program will be released later this year, and the first group of "Green Ribbon Schools" announced next year.... more at <http://www.ed.gov/news/press-releases/department-education-starts-award-green-schools>

Mississippi Flooding - June 15, 2011

Nature's fury reached new extremes in the U.S. during the spring of 2011, as a punishing flooding and rainfall brought the greatest flood in recorded history to the Lower Mississippi River, an astonishingly deadly tornado season, the worst drought in Texas history, and the worst fire season in recorded history. There's never been a spring this extreme for combined wet and dry extremes in the U.S. since record keeping began over a century ago as shown by statistics released last week by the National Climatic [Data Center](#). One other result is the Gulf of Mexico's hypoxic zone is predicted to be larger than average this year, due to extreme flooding of the Mississippi River this spring, according to an annual forecast by a team of NOAA-supported [scientists](#) from the Louisiana Universities Marine Consortium, Louisiana State University and the University of Michigan. The forecast is based on Mississippi River nutrient inputs compiled annually by the U.S. Geological [Survey](#). Scientists are predicting the area could measure between 8,500 and 9,421 square miles.....more at <http://www.enn.com/ecosystems/article/42812>

2011 MEEA Officers

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MDC Liaison: Kevin Lohraff - Jefferson City

City of Joplin Relief Info - <http://joplinmo.org/>

Missouri River Flood Info - http://www.crh.noaa.gov/eax/?n=riverflood_2011

meea Membership Application

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An environmentally responsible
citizenry in Missouri

MEEA Mission
Advance environmental education in
Missouri by providing innovative
professional development and
networking opportunities for those
who share our mission

MEEA Value
Connecting people, ideas and
resources throughout Missouri

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Thank you for your support!

