Louisiana
Environmental Education
SYMPOSIUM

WATERSHEDS
FROM MY BACK YARD TO THE OCEAN

February 21-22, 2014
Shreveport Convention Center

Presented by:
Dear Friends and Colleagues,

The Louisiana Environmental Education Association (LEEA) and the Louisiana Environmental Education Commission (LEEC) extend a warm welcome to our 17th Annual Symposium! We are delighted that you have chosen to attend and believe you find this opportunity to be filled with valuable experiences. Environmental literacy and advocacy must be on the leading edge of every action that impacts our environment. Accurate understanding of environmental impacts is key to making informed decisions as we encounter and adapt to the environmental changes and challenges we currently, and will in the future, face in Louisiana.

This year’s program provides a wealth of information across many topics that affect our state. You will find the latest research findings and ways in which we can all be proactive in disseminating information that is critical to preventing and lessening negative environmental impacts. We are especially excited to have three outstanding additions to the Symposium:

- **Dr. Kevin Baer**, Keynote Speaker, University of Louisiana at Monroe, will provide research data he has acquired while studying environmental toxicology.
- **Lieutenant General Russel Honoré**, who has been credited with being the driving force behind New Orleans recovery efforts, will share environmental leadership strategies.
- **Playmakers of Baton Rouge**, a highly successful children’s theatre troupe, will present Zoe’s Watershed Adventure, sponsored by LEEC, to showcase the environmental play they will be performing throughout Louisiana. As you can see there is something for everyone!

Of course, one of the best outcomes of this event is networking! We have participants attending from across the state who have expertise in a broad range of areas—just think of the endless possibilities to share information! What a way to “pass a good time!” Many thanks to our participants, presenters, and exhibitors for making the Symposium a priority! We appreciate what each of you do every day to practice good stewardship of Earth’s resources and help others better understand its importance. You are the heart of environmental education! Thanks for all you do for Louisiana!

Sincerely,

Brenda Nixon
Chair, Louisiana Environmental Education Commission

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**2014 Louisiana Environmental Education Commission**

*BESE*
- Judith Miranti, Ph.D.
- Board of Regents
- Nancy Rabalais, Ph.D.
- LA Department of Agriculture & Forestry
- Wade Dubea
- LA Department of Education
- Ann Wilson
- LA Department of Environmental Quality
- Vladimir A. Appeaning, Ph.D.
- LA Department of Health & Hospitals
- Gary Balsamo, DVM
- LA Department of Natural Resources
- Kelley Templet
- LA Department of Wildlife & Fisheries
- Angela Capello
- Environmental Advocacy
  - Jonathan Dearbone
- Environmental Advocacy
  - Brenda Walkenhorst
- Environmental Scientist
  - Deepak Bhatnagar
- Industry
  - Dean Blackett
- LA Environmental Ed. Association
  (Listed by Congressional Districts)
  - District 1 — Dinah Maygarden
  - District 2 — Jennifer Roberts
  - District 3 — Cole Ruckstuhl
  - District 4 — Connie Conner
  - District 5 — Melanie Dupre
  - District 6 — Dianne Lindstedt
  - At Large — Heather Egger
- LA Science Teachers Association
  - Brenda Nixon, Ph.D.
- Local Government
  - Jason Barnes
- LSU Agricultural Center
  - Mindy Brooks
- Southern University
  - Leodrey Williams, Ph.D.
- LEEC Coordinator
  - Venise Ortego
- LEEC Assistant Coordinator
  - Thomas Gresham
Lt. General Russel L. Honoré, U.S. Army (Ret.) will address the attendees of the 17th Annual Louisiana Environmental Education Symposium on Saturday, February 22, 2014 at the Shreveport Convention Center. The subject of General Honoré’s presentation is environmental leadership.

Honoré is a native of Lakeland, Louisiana. He was commissioned a Second Lieutenant of Infantry and awarded a Bachelor of Science degree in Vocational Agriculture upon graduation from Southern University in 1971. He holds a Master of Arts in Human Resources from Troy State University as well as an Honorary Doctorate in Public Administration from Southern University, an Honorary Doctorate in Laws from Stillman College, and an Honorary Doctorate in Humane Letters from Stillman College.

General Honoré is perhaps best known for coordinating the Army’s relief effort in New Orleans following Hurricane Katrina in 2005. Following the experience, Honoré vowed to foster a “culture of preparedness,” and to improve the response of emergency services to future disasters.

Since his retirement from the U.S. Army, General Honoré has become a strong supporter of the importance of education, having helped to establish the Honoré Center for Undergraduate Student Achievement (CUSA) at the Southern University and A&M College System, which has the twin goals of reversing the trend of fewer African American males graduating from college, and increasing the number of male certified classroom teachers in urban settings.

His passion for the environment is seen through his work with the Green Army, a group he established to inform the public about environmental issues. He believes that it is essential to empower citizens to take well-informed actions to improve our environment.
Thanks to our sponsor
Shell Exploration & Production Company.
Friday, February 21, 2014
Day-long Short Courses and Tours. Course times vary. See Short Courses and Tours listing below.

4:00-5:00 p.m. LEEC Commission Meeting
5:00 p.m.-8:00 p.m. Registration
6:00 p.m.-8:00 p.m. Social/Mixer Meet the Exhibitors
7:45 p.m.-8:15 p.m. Zoe’s Watershed Adventure by Playmakers of Baton Rouge

Saturday, February 22, 2014
7:00 a.m.-8:00 a.m. Registration/Continental Breakfast—Second Floor Lobby
7:30 a.m.-8:00 a.m. LEEA Meeting (all attendees invited) —Ballroom C
8:00 a.m.-9:50 a.m. Concurrent Sessions—Rooms 201-205
9:50 a.m.-10:15 a.m. Exhibitor Showcase/Refreshments—Second Floor Lobby
10:15 a.m.-10:55 a.m. Guest Speaker, Lt. Gen. Russel Honoré—Ballroom D
11:00 a.m.-12:50 p.m. Concurrent Sessions—201-205
12:50 p.m. Lunch/Keynote/Grand Door Prize—Ballroom C

Friday Short Course Sessions

8:00 a.m.-4:30 p.m. | From A to Chimpanzee WORKSHOP & TOUR
Grade Levels: K-12 | Presenters:
Andrea Falcetto, Education Specialist, Chimp Haven
Amy Fultz, Director of Behavior, Research & Education, Chimp Haven

8:00 a.m.-3:00 p.m. | Bayou Pierre Watershed TOUR
Grade Levels: K-12 | Presenters:
Jon Soul, Outdoor Education Coordinator, Montessori
School for Shreveport
Dionne Procell, Caddo Magnet High School
Michele McKee, Programs & Education Grants Manager, Sci-Port:
Louisiana’s Science Center

8:00 a.m.-3:30 p.m. | The Bear Necessities WORKSHOP
Grade Levels: 5-12 | Presenters:
Carrie Salyers, Education Outreach Coordinator, LDWF
Natalie McElveya, Youth Wetlands Program Extension Associate, LSU
AgCenter

7:30 a.m.-4:00 p.m. | Learning with Nature WORKSHOP
Grade Levels: K-12 | Presenters:
Terri Jacobson, Refuge Ranger, Red River National Wildlife Refuge
Chautal Stricklan, Refuge Volunteer & Certified Interpretive Guide
Kevin Neal Baer, PhD is the head of the University of Louisiana Monroe Toxicology Department and an expert on environmental pollution. He is a recognized authority on multiple public safety issues, including: mercury in fish, insecticide and insect repellent toxicity, and water quality.

Baer began his academic career at Northeast Louisiana University in 1978 and earned his PhD in Pharmacology and Toxicology in 1988. Before returning to the university, he worked as a research toxicologist at Haskell Laboratory for Toxicology and Industrial Medicine from 1989-1994. He currently teaches seven undergraduate and five graduate courses on pharmacology and toxicology at ULM.

Among the most recent research grant and fellowship projects on which Dr. Baer served as lead investigator are:

· Are There Unintended Toxic Effects on Resident Biota in Wetlands Used for Water Quality Management?

· Watershed Monitoring in the Ouachita River Basin

· Mississippi River Basin Initiative (MRBI) Watershed Water Quality Monitoring Project in Bayou Lafourche Tributaries

· Mississippi River Basin Initiative (MRBI) Watershed Water Quality Monitoring Project in Turkey Creek Tributaries

He is Associate Editor for the journal Drug and Chemical Toxicology, has authored or co-authored dozens of studies for scientific journals throughout his career, and is a frequent presenter at numerous toxicology and pharmacology symposia.

Doctor Baer is the father of three children and resides with his wife in Monroe, Louisiana.

Keep up with us! Join our weekly eNewsletter list.

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2014 Environmental Education State Symposium
Warwick Allen — “Latitudinal gradients in tritrophic interactions between arthropod herbivores of Phragmites australis and their natural enemies”
This project focuses on how the strength of biotic interactions among multiple trophic levels (plant-herbivore-commensal-natural enemy) may vary on a continental scale, and what implications this may have for invasion success. The model study system includes native and invasive genotypes of common reed (Phragmites australis).

Ganesh Bhattarai — “Test of enemy release hypothesis with native and invasive genotypes of Phragmites australis”
The reduced enemy pressure in invasive species in the introduced range compared to co-occurring native species has been considered as one of the primary causes of biological invasion. We tested this hypothesis with native and exotic genotypes of common reed, Phragmites australis. Feeding damage by fall armyworm (Spodoptera frugiperda) was substantially lower in exotic plants than the natives. These results suggest that escape from natural enemies may have contributed to the invasiveness of the Eurasian genotype in North America.

Anthony Chow — “Effects of Latitude on the Competitive Ability of Native and Invasive Genotypes of Phragmites australis”
An examination of the competitive ability over latitude of both native and invasive haplotypes of P. australis against a common co-occurring wetland species in Spartina alterniflora. The Gulf Coast haplotype of P. australis is also examined in terms of its competitive ability relative to that of the native and invasive haplotypes.

Ivan Prock—“Recent Historical Sediment Supply and Distribution to the Louisiana Southeast Coastal Plain”
A study of recent historical sediment supply and distribution to the Louisiana southeast coastal plain; the impacts of weather and river engineering on this supply; the effects projected climate change will have on sediment supplies; and estimating sediment requirements to mitigate relative sea level rise.

Zhen Xu — “Rapid Field Estimation of Biochemical Oxygen Demand with Chlorophyll-a Fluorescence”
Rapid field estimation of biochemical oxygen demand (BOD) can be very useful for cost-effective monitoring of urban water quality. To develop a simple BOD prediction model, this study conducted in-situ measurements on chlorophyll a fluorescence and laboratory BOD of waters in the LSU University Lake from October 2012 to September 2013, and found a close association of BOD with chlorophyll a fluorescence.

POSTERS ONLY
Sandra Galeano—“Understanding How Coloration and Body Size in the Poison Dart Frog Oophaga pumilio Influence Aggressive Behaviors and the Strength of Species Interactions”

Sarah Giltz—“Effects of Oil, Dispersant, Acidification and Their Interactions to the Survival and Condition of Blue Crab Zoea Larvae”

Buy a Plate to Educate!

Purchase Louisiana’s “ENVIRONMENTAL EDUCATION PLATE” to Educate Louisiana’s Citizens about our Environment. Your purchase helps to fund Environmental Education grants for educators and students, the annual Environmental Education State Symposium, and other programs designed to further environmental knowledge and stewardship in Louisiana.

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Simple, Fun PK-4 EE Activities for Young Learners!
Participate in PK-4 learning activities that pique young learners’ curiosities and encourage environmental stewardship! Receive classroom-ready handouts with learning station ideas! Build critical skills through EE using water conservation, bottle biology, mealworms, composting, habitats, and more! Door Prizes compliments of the LSU/SU Regional Collaborative!
Brenda Nixon, Cain Center for STEM Literacy/Louisiana State University
Hands-On Workshop  Grades: K-4  Room 201

WETSHOP – A Coastal Awareness Institute
Want a sneak peek? Open to all science/history teachers, WETSHOP provides 55 hours of professional development and numerous wetlands classroom resources. Unearth the extensive bounty of our coast with a week-long wetland workshop that introduces educators to wetland loss, the importance of Louisiana’s shores, and restoration efforts.
MattiLynn Dantin, Louisiana Department of Wildlife & Fisheries
Exemplary Program  Grade: K-12  Room 202

What a Lot of Rot! Using Compost to Teach Life and Environmental Science
Composting provides many benefits by promoting natural decomposition of organic wastes such as food scraps and by improving soil quality. By examining the composting process students can learn about decomposition, nutrient cycling, and environmental stewardship. We will explore kid-friendly activities that can be used inside or outside of the classroom.
Maud Walsh, School of Plant, Environmental & Soil Sciences, Louisiana State University
Hands-On Workshop  Grades: K-12  Room 203

Exploring Water
One of our most valuable natural resources in agriculture is water. This session will cover the importance of water to life, water quality, water quantity and agricultural use of water. Participants will construct an aquifer in a cup and create a water cycle bracelet.
Lynda Danos, Louisiana Agriculture in the Classroom
Hands-On Workshop  Grade: K-12  Room 204

It’s All Downstream from Here!
Learn how to start a debris removal project to build a more sustainable school community. Engage students in math and science to teach a “hands on and higher level thinking project” that meets math and science standards. Participants will be given lesson plans for grades K-12 that show STEM and data collection procedures that encourage environmental knowledge about how trash in our waterways affects the Gulf Coast.
Sandra Saye Foucqueteau, Upper Pointe Coupee Elementary School
Hands-On Workshop  Grade: K-12  Room 205
### 9:00 AM - 9:50 AM  Concurrent Sessions

**A Floor Map to Understanding Coastal Wetlands**  
This session uses a floor map to talk about natural and man-made changes to our coastal salt marshes. Activity will show how changes to the way water flows through wetlands can have widespread effects on land loss rates, community structure, and water quality. Activity can be recreated in the classroom.  
*Murt Conover, Louisiana Universities Marine Consortium (LUMCON)*  
**Hands-On Workshop**  
Grades: K-8  
Room 201

**Backwater Blues: Webbed Feet, Long Legs, and Other Aquatic Adaptations**  
Learn how Swamper, the swamp rabbit, copes with floods in the bottomland hardwood forest. Participate in an activity called “Water Address.” Identify plants, animals and their habitats by analyzing clues that describe water-related adaptations of aquatic and terrestrial organisms.  
*Amy Ouchley, Naturalist, Educator and Author*  
**Hands-On Workshop**  
Grade: 5-8  
Room 202

**Understanding the Chemistry of Air**  
Discover unique and creative ways of using Lego bricks to build molecules and show reactions. Get your students (of all grades) to interact while learning about air pollution. Session includes a walk-through demonstration of activities and techniques to make lessons enjoyable for any grade (K-12).  
*Elisabeth Feld and Cholena Ren, Graduate Students, LSU Superfund Research Center*  
**Hands-On Workshop, Lesson Demonstration**  
Grades: K-12  
Room 203

**Creating a Local Water Resources Curriculum**  
Take a look at the ongoing development of a localized water resources curriculum in the Baton Rouge area. Discuss the potential for a statewide program for middle and high school students with an emphasis on scientific literacy, modeling and management of water resources “in your back yard.”  
*Matthew Reonas, Louisiana Office of Conservation*  
**Lesson Demonstration, Exemplary Program**  
Grade: 5-12  
Room 204

**All Rivers Lead to the Ocean; a Classroom Study**  
Is it true that our rivers are major polluters of the Gulf of Mexico? Learn how to perform a student centered comparison study of debris found in your local waterways and the Louisiana coastline, and watch in amazement as your students take ownership of your local waterways. Discuss turning this classroom project into an eye-opening science fair exhibit.  
* Diedre Young, Ridgway Christian School  
Randy Harris, Student, Ridgway Christian School*  
**Lesson Demonstration**  
Grade: 9-12  
Room 205

:: 9:50-10:15 a.m  
Break in the Exhibit Hall  
Second Floor Lobby::

::10:15-10:55 a.m.  
Leadership Presentation by Lt. Gen. Russel L. Honoré  
Ballroom D::

Watersheds: From My Back Yard to the Ocean
11:00 a.m. - 11:50 a.m. Concurrent Sessions

**Bringing the Beach to Your Classroom**
How do you teach early learners about the beach when they have never seen one? Learn techniques and lesson ideas to bring the beach and estuaries to your classroom. Enjoy all the fun without the sunburn!

*Monica Pasos, Audubon Zoo*

**Lesson Demonstration**

**A Tour of a Watershed**
Participants will use clues and data they collect to solve mysteries about locations within a watershed. This activity is hands-on and designed to teach students how to collect data and use that data to answer questions. Activity will provide insight about how we are all connected to our water resources.

*Murt Conover, Louisiana Universities Marine Consortium (LUMCON)*

**Hands On Workshop**

**Hydrogen-Powered Cars**
Explore renewable energy, fuel cell efficiency, electrolysis and Ohm’s law while creating hydrogen-powered cars. If time allows, solar energy in reference to producing hydrogen will also be explored. (This program is one of the numerous Environmental Education programs offered by Sci-Port: Louisiana’s Science Center.)

*Alan Brown, Sci-Port: Louisiana's Science Center*

**Hands On Workshop**

**Uninvited Visitors: Introducing Invasive Species**
Introducing invasive species in your classroom engages students in a real ecological problem that is interesting and meaningful. Learn about invasives in Louisiana, their ecological impacts, how they spread and what makes them such a nuisance. Work with at least one activity and become aware of other tools.

*Dianne Lindstedt, Sea Grant, Louisiana State University*

**Hands-On Workshop, Lesson Demonstration**

**Bench-Scale Micro Fodder System**
Students explore the use of micro fodder to provide farmers with a means to supplement their poultry and livestock during winter or drought. Fodder is a highly nutritious feed (think sprouts) that minimizes the need for hydrocarbon fuel inputs and protects the watershed from pollution. Chemistry students are responsible for determining the physical/chemical needs of the animals and fodder, and physics students are charged with building the bench-scale machine.

*Katy Turnbaugh, Eureka Springs High School, Arkansas*

*N. Andress, K. Cash, E. Randolph, J. Alvarado, H. Comstock, M. McClung; Students, Eureka Springs High School, Arkansas*

**Lesson Demonstration**
12:00 p.m. - 12:50 p.m. Concurrent Sessions

**Energy Bike Workshop**
Teach young students about energy science and conservation. Through riding the Energy Bike, students learn about energy efficiency by experiencing the difference in physical effort needed to power incandescent, CFL, and LED light bulbs. Also discuss renewable, clean energy sources. Alliance for Affordable Energy offers workshops free to public school teachers. Lessons meet GLE and the Next Generation Science Standards.

*Julia Michaels, Alliance for Affordable Energy*

Ivan Gill, PhD, University of New Orleans

**Hands on Workshop**
Grades: K-4
Room 201

**Investigating Wetland Loss Using Free Mapping Tools**
Students can pose their own questions and, through guided inquiry, investigate the answers using mapping and GIS tools available online. Math and science skills are practiced while gaining an understanding of what is happening to our coast. We will explore the tools and investigate a question together.

*Dinah Maygarden, University of New Orleans*

**Lesson Demonstration**
Grades: 5-12
Room 202

**Native Fish in the Classroom**
Connect your students to the outdoors and Louisiana’s natural resources through this stewardship project. Students raise the native paddlefish from eggs to fingerlings in their classroom nursery tank, then release the fingerlings to a pre-selected river habitat. This initiative is a must-do for 6 – 12 graders!

*Angela Capello, Louisiana Department of Wildlife & Fisheries*

**Exemplary Program**
Grade: 5-12
Room 203

**From A to Chimpanzee**
Did you know the National Chimpanzee Sanctuary is located in Northwest Louisiana? Learn about what we do and how your classroom can help! We will feature lessons about chimpanzee care at our sanctuary, conservation in the wild, and engage in an activity you can share with your students.

*Andrea Falcetto, Chimp Haven, Inc.*

**Lesson Demonstration**
Grade: K-12
Room 204

**Bayou to Bay - Our Watershed Education Project Collaboration**
Informal and formal, outdoor and indoor? Want to connect them all together? Find out about the education component of our Bayou to Bay Watershed Project and how we’ve connected outdoors, the science center and the formal classroom for a growing community collaboration that is changing kids’ health and connection to their water and their watershed.

*Michele McKee, Sci-Port: Louisiana's Science Center*

**Jon Soul, Bayou to Bay Watershed Project**

**Exemplary Program**
Grades: K-12
Room 205

:: 12:50 p.m.                                     Keynote/Luncheon                          Ballroom C ::

Watersheds: From My Back Yard to the Ocean 9
2013 GRANT RECIPIENTS

UNIVERSITY GRANTS
Warwick Allen          Louisiana State University
Ganesh Bhattarai      Louisiana State University
Anthony Chow          Louisiana State University
Sandra Galeano        Louisiana State University
Sarah Giltz           Tulane University
Ivan Prock            Louisiana State University
Zhen Xu               Louisiana State University

EDUCATOR GRANTS
Julie Fink            The Runnels School
Sandra Saye Foucqueteau Upper Point Coupee Elementary
Tera LaPrarie         Alexandria Middle Magnet School
Janell Simpson        Patrick F. Taylor Science & Tech. Academy

PROFESSIONAL DEVELOPMENT GRANTS
Jennifer “Murt” Conover Louisiana Universities Marine Consortium
Ann Findley            University of Louisiana at Monroe
Diane Madden          Louisiana Tech University/SciTEC
Amy Ouchley           Friends of Black Bayou, Inc.

SCHOOL SUSTAINABILITY GRANTS
Glenita Anderson       Central Math & Science Magnet Elem., AR
Lucy Bartholomew      Northstar School, TX
Pam Baxter            Sulphur Rock Math & Science Magnet, AR
Mary Brinkman         Sci-Tech Preparatory School, TX
Christy Cope          Haskell Middle School/High School, OK
Sharon Hatfield       Remington Elementary School, OK
Susan Malone           St. Paul’s Episcopal School, LA
Terry Simmons         Ashdown Junior High School, AR
Dana Smith             Fayetteville High School, AR
Jonathan Ward         Sonora Middle School, AR

SUSTAINABILITY INITIATIVE GRANTS
Kelly Boyter          Airline High School, LA
Terri Colclough       Academic Distinction Fund, LA
Robert Doyle          Baylor Univ. Ctr. for Reservoir & Aquatic Sys., TX
Barbara Garrity       Environmental Ed. Assoc. of New Mexico, NM
Robert Thomas         Loyola Univ. Ctr. for Environmental Comm., LA
Kristina Turnbaugh    Eureka Springs High School, AR
Kim Van Scoy          University of the Ozarks, AR

LEEC awarded a total of $98,597 to grant recipients in 2013. Many thanks to EPA for co-funding these worthy endeavors.

Reuse it!

Your symposium bag is made from recycled PET, a plastic commonly used to make drink bottles. It folds easily into its own 4-by-5-inch pocket and fits neatly into your pocket, purse or glove compartment.
Environmental Awareness Art & Language Arts

The LEEC and Alcoa Foundation co-sponsored the 11th Annual Environmental Awareness Art & Language Arts Contest:
Louisiana’s Natural Resources: What’s Important to You?

THANK YOU to Alcoa Foundation, LEEC members, judges, and others for helping make the 11th Annual Environmental Awareness Art and Language Arts contest a HUGE SUCCESS! Hundreds of entries were received for the 2013 contest, and because of the environmental awareness focus, many teachers took advantage and used this as a classroom learning activity.

The LEEC honored the winners last June at a reception in the Governor’s Mansion. The students’ families, teachers, and principals were invited to attend the reception. LEEC members and Alcoa Foundation representatives attended the event as well.

All winners received cash prizes and winning entries were used to create the 2014 calendar. Top winners had their works featured on billboards and newspaper ads in their communities. Thank you, Alcoa, for making all this possible! CONGRATULATIONS TO OUR 2013 WINNERS & THEIR TEACHERS!

MARK YOUR CALENDAR FOR THE
2015 12TH ANNUAL ENVIRONMENTAL AWARENESS ART & LANGUAGE ARTS
CONTEST!

Theme: Watersheds: From My Back Yard to the Ocean
Deadline: Friday, April 25, 2014
Contest is open to all children in Louisiana between 5-18 years. Submission forms are available: www.wlf.la.gov/eec

2013 CONTEST WINNERS

<table>
<thead>
<tr>
<th>GROUP 1</th>
<th>5-7 yrs</th>
<th>ART WINNERS</th>
<th>LANGUAGE ART WINNERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Noah Guidroz</td>
<td>Port Barre Elementary</td>
<td>Emilee King Chesbrough Elementary</td>
</tr>
<tr>
<td>2nd</td>
<td>Levi Graham</td>
<td>Chesbrough Elementary</td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td>Noah Katner</td>
<td>Lusher Charter School</td>
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<tr>
<th>GROUP 2</th>
<th>8-10 yrs</th>
<th>ART WINNERS</th>
<th>LANGUAGE ART WINNERS</th>
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</thead>
<tbody>
<tr>
<td>1st</td>
<td>Ashini Modi</td>
<td>South Highland Magnet</td>
<td>Lakin Graham Chesbrough Elementary</td>
</tr>
<tr>
<td>2nd</td>
<td>Anna Johnson</td>
<td>Isidore Newman School</td>
<td>Owen Brouillette Homeschooled</td>
</tr>
<tr>
<td>3rd</td>
<td>Ethan Guidroz</td>
<td>Lockport Upper Elementary</td>
<td>Lizzie Robert Isidore Newman School</td>
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<tr>
<th>GROUP 3</th>
<th>11-13 yrs</th>
<th>ART WINNERS</th>
<th>LANGUAGE ART WINNERS</th>
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</thead>
<tbody>
<tr>
<td>1st</td>
<td>Trence Robertson</td>
<td>Port Barre High School</td>
<td>Paycen Brouillette Homeschooled</td>
</tr>
<tr>
<td>2nd</td>
<td>Kyle Miller</td>
<td>S.P. Arnett Middle School</td>
<td>Clay Knight Lockport Middle School</td>
</tr>
<tr>
<td>3rd</td>
<td>Christian Torres</td>
<td>Curtis Elementary</td>
<td>Shayley Naquin St. Gregory Catholic School</td>
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</table>

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<thead>
<tr>
<th>GROUP 4</th>
<th>14-18 yrs</th>
<th>ART WINNERS</th>
<th>LANGUAGE ART WINNERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Tuyen Dang</td>
<td>Helen Cox High School</td>
<td>Tara Guy Mount Hermon School</td>
</tr>
<tr>
<td>2nd</td>
<td>Brenden Ledet</td>
<td>Bayou Blue Middle School</td>
<td>Brook Lawson Grace King High School</td>
</tr>
<tr>
<td>3rd</td>
<td>Victoria-Duyen Chu</td>
<td>Helen Cox High School</td>
<td>Maddy McDade DeRidder Jr. High School</td>
</tr>
</tbody>
</table>
EXHIBITOR DIRECTORY

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Louisiana Office of Conservation
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LSU Health Shreveport, Health Sciences Library
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U.S. Army Corps of Engineers J. Bennett Johnston Waterway Regional Visitor Center
Suzanne Odom, donna.s.odom@usace.army.mil

THANK YOU Exhibitors!

We all greatly appreciate the time, effort, information, and FREEBIES that you provide to our participants!
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Qualify for the GRAND DOOR PRIZE by turning in your FINAL EVALUATION at the luncheon!

Join us on Facebook!
Please “like” our page and share with your friends:
facebook.com/LouisianaEnvironmentalEducationCommission
THE LEEC NEEDS YOUR INPUT!
PLEASE TURN IN YOUR EVALUATIONS AFTER EACH SESSION AND
HAND IN YOUR FINAL SYMPOSIUM EVALUATION AT THE LUNCEHEON!
# 2014 Symposium Planner/CLU Organizer

**DATE** | **TIME** | **SHORT COURSE TITLE** | **Presenter Initials**
--- | --- | --- | ---
Friday, FEB 21 |  |  | 

**DATE** | **TIME** | **SESSION TITLE** | **Presenter Initials**
--- | --- | --- | ---
**S** | **A** | **T** | **U** | **R** | **D** | **A** | **Y** | 
FEB 22 | 7:00 AM - 8:00 AM | REGISTRATION / LEEA MEETING / EXHIBIT HALL OPENS | 
| 8:00 AM - 8:50 AM |  |  | 
| 9:00 AM - 9:50 AM |  |  | 
| 9:50 AM - 10:15 AM | EXHIBITOR SHOWCASE |  | 
| 10:15 AM - 10:55 AM | LEADERSHIP PRESENTATION |  | 
| 11:00 AM - 11:50 AM |  |  | 
| 12:00 PM - 12:50 PM |  |  | 
| 12:50 PM | KEYNOTE ADDRESS / LUNCHEON |  | 

This planner is provided for participants who need documentation of attended sessions. Participants must request that the presenter initial this form at the end of each session. CLUs are not awarded for visiting the exhibit hall. Friday Short Course sessions are set at 7 CLUs. Saturday concurrent sessions, leadership presentation and the keynote address are set at a total of up to 6 CLUs for the day’s events. *Districts have the option to accept this documentation.*
Certificate of Participation

is hereby granted to

for completion of _______ hours of Professional Development received during

February 21-22, 2014

OUR ENVIRONMENT . . . OUR FUTURE

LOUISIANA ENVIRONMENTAL EDUCATION STATE SYMPOSIUM

Brenda Nixon, Chair

Amy Ouchley, President

Louisiana Environmental Education Commission

Louisiana Environmental Education Association
Shreveport Convention Center Floorplan
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Speaker(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 AM</td>
<td>Simple, Fun PK EE Activities for Young Learners!</td>
<td>Brenda Nixon, Ph.D.</td>
<td>Room 201</td>
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<tr>
<td>8:30 AM</td>
<td>WETSHOP - Coastal Awareness Institute for Young Learners!</td>
<td>Matt/Lynn Dantin</td>
<td>Room 202</td>
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<tr>
<td>9:00 AM</td>
<td>What a Lot of Rot! Using Compost to Teach Life &amp; Environmental Science</td>
<td>Maud Walsh</td>
<td>Room 203</td>
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<tr>
<td>9:30 AM</td>
<td>Exploring Water</td>
<td>Lynda Danos</td>
<td>Room 204</td>
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<tr>
<td>10:00 AM</td>
<td>It's All Downstream from Here</td>
<td>Sandra Saye Foucqueteau</td>
<td>Room 205</td>
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<tr>
<td>10:30 AM</td>
<td>A Floor Map to Understanding Coastal Wetlands</td>
<td>Murt Conover</td>
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<tr>
<td>11:00 AM</td>
<td>Investigating Wetland Loss Using Free Mapping Tools</td>
<td>Diah Maygardien</td>
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<td>11:30 AM</td>
<td>Hands-On K-4</td>
<td>Exemplary Program</td>
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<td>Bringing the Beach to Your Classroom</td>
<td>Monica Parra</td>
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<td>1:00 PM</td>
<td>Hands-On K-8</td>
<td>Exemplary Program</td>
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<td>1:30 PM</td>
<td>Exploring the Chemistry of Air</td>
<td>Elisabeth Feld</td>
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<tr>
<td>2:00 PM</td>
<td>Understanding the Chemical Composition of Water</td>
<td>Matthew J. Thomas</td>
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<td>2:30 PM</td>
<td>Hands-on K-12</td>
<td>Exemplary Program</td>
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<tr>
<td>3:00 PM</td>
<td>Bench-Scale Micro Fodder Systems</td>
<td>Katy Turnbaugh &amp; Students</td>
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