Environmental Education Symposium

Celebrating Our 20th Symposium!

February 3 & 4, 2017
Embassy Suites by Hilton • Baton Rouge
Thank you to our symposium sponsor.

**FRIDAY Short Courses**

**Growing Up WILD**  
Grade Levels: Pre-K-4  
Location: LSU AgCenter Botanic Gardens at Burden  
Presenter: Dr. Brenda Nixon, Gordon A. Cain Center for STEM Literacy

**Eagle Tour**  
Grade Levels: Pre-K-12  
Location: Van leaves from Embassy Suites  
Presenter: Alma Robichaux, Barataria Terrebonne National Estuary Program

**Endangered Species and Zoos**  
Grade Levels: 5-16  
Location: Embassy Suites and Baton Rouge Zoo  
Presenter: Brenda Walkenhorst, Audubon Institute

**Wetlands**  
Grade Levels: K-12  
Location: BREC Bluebonnet Swamp Nature Center  
Presenter: Angela Capello, Louisiana Department of Wildlife and Fisheries and Dianne Lindstedt, Louisiana Sea Grant

**Young Environmental Science Stewards Project (YESS)**  
Grade Levels: 5-12  
Location: Louisiana Department of Wildlife and Fisheries  
Presenter: Dinah Maygarden, University of New Orleans
SYMPOSIUM Agenda

Friday, February 3, 2017
8:00 a.m. — 3:30 p.m. Optional Short Courses
6:00 p.m. — 8:00 p.m. Registration, Social/Mixer*, Meet the Exhibitors

Saturday, February 4, 2017
7:00 a.m. — 8:00 a.m. Registration/Breakfast*
8:00 a.m. — 8:50 a.m. Concurrent Sessions
9:00 a.m. — 10:00 a.m. Plenary Session on Endangered Species
10:05 a.m. — 10:30 a.m. LEEA Meeting & Exhibit Hall
10:30 a.m. — 11:20 a.m. Concurrent Sessions
11:30 a.m. — 12:20 p.m. Concurrent Sessions
12:30 p.m. — 2:00 p.m. Lunch*, Keynote & Recognitions

Grand Door Prizes will be awarded at the conclusion of the conference.
*Meals Provided

PLENARY Session

Panelists: Monica Sikes from the US Fish and Wildlife Service provides a general overview of the process for listing and delisting threatened and endangered species; Sara Zimorski of the Louisiana Department of Wildlife and Fisheries provides information on the reintroduction of extirpated species; and LDWF’s Maria Davidson explains the process of recovering species that have been listed.

Saturday, February 4 from 9 a.m.—10 a.m. — Assembly Room

Stick Around for the Grand Door Prizes!

We’ll announce the winners of the grand door prizes upon the conclusion of the conference at 2 p.m. on Saturday, Feb. 4. They include: a weekend at a state park, provided by the Louisiana Department of Culture, Recreation and Tourism; ten Environmental Education specialty license plates; and winners’ choice of field study with an LDWF biologist.
Dr. Jessica Kastler is the Coordinator of Program Development at the Gulf Coast Research Laboratory’s Marine Education Center (University of Southern Mississippi, School of Ocean Science and Technology). She writes proposals and directs grants to teach members of the public about the process of science, how science works following catastrophes like oil spills or hurricanes, ecology of coastal systems and communication.

She works with diverse audiences, including classroom teachers, citizen scientists, coastal stakeholders (e.g., fishermen) and scientists who are interested in communicating their research. One of her goals is to work with communities that have very different experiences of science, then introduce individuals from these communities to each other to initiate conversations and build trusting relationships. She also teaches Introduction to Oceanography and Barrier Island Ecology to university students in the GCRL Summer Field Program. She came to marine education from research training in coastal sedimentary ecology, with a Ph.D. in Oceanography and Coastal Sciences from Louisiana State University, an M.S. in Environmental Science from University of Virginia, and a B.S. in Geology from Louisiana State University.

She has always loved working with teachers. She did not know how lucky Louisiana is in its environmental education community until she moved out of the state and has missed it greatly. Jessie is an active member of the National Marine Educators Association and the president of its regional association SAME (Southern Association of Marine Educators) and invites all environmental educators to join.

In her keynote, Dr. Kastler will use individual cases of endangered species to engage the audience in explorations of the process of science while cultivating environmental stewardship.

Saturday, February 4 at 12:30 p.m. — Assembly Room
Poster Session

LEEC Research Grant Recipients

Emily DelDuco, LSU - “Dissolved carbon transport and transformation in the Atchafalaya River”

Andrew Flick, LSU - “The effects of infected prey on predators”

Rachel Harman, LSU - “Characterizing the fungi community of Phragmites australis: geographic and genotypic variation”

Katherine Hovanes, LSU - “Life history traits of the native insect Ischnodemus falicus”

Bo Wang, LSU - “Decadal riverbed deformation in the last 310 miles of the Mississippi River - Insights into natural and river engineering effects on large alluvial rivers”

Special Poster Presentation

Shaun Boese, Abby Cockran, Lisa-Marie McAbee, Kylee Olsen, and Julie Southerland, Kenner Discovery Health Sciences Academy - “Coastal Wetland Student Researchers”

Friday, February 3 from 6–8 p.m.

Special Exhibitors

Bayou Builders FIRST Lego League team #4043 Jasmine Barlow, Matthew Benfield, Holden Brown, Rebekah Christian, Quinn Dennis, Adam Deslatte, Jesse Landry, Linus Sommerfeld, Preston Warren, Jillian Williams, and Coach Jean-Marie Williams.

Saturday, Feb. 4 – Exhibit Hall

Reuse It!

We chose a tough, durable cotton canvas tote for your conference bag this year to make sure you can get use from it for years to come.
Concurrent Sessions 8 a.m. to 8:50 a.m.

ASSEMBLY ROOM

Rocksey the Raccoon’s Environmental Education Program
Presenter: Susan Russell, Keep Louisiana Beautiful

Learn about Keep Louisiana Beautiful’s new curriculum, Rocksey's Toolbox. Lesson plans, hands-on activities, fun activity sheets, GLE matches, and additional resources presented for topics including; defining litter, timeline of trash, litter decomposition, effects on wildlife, plastics, reducing, reusing, recycling and civic responsibility.

PreK-4th Grade Hands-on Workshop, Lesson Demonstration

CAUCUS ROOM

Something’s Fishy: the Mystery of Extirpation and Extinction
Presenter: Helen Umstead, Lafayette Parish School System

Hands on activities and simple manipulatives teach children to assess water quality and understand how processes affect fish and other wildlife populations' sustainability. Abbreviated Project WILD activity demonstrations will be explored.

5th-8th Grade Lesson Demonstration

RENOIR ROOM

Save Our Coast: The Multiple Lines of Defense
Presenter: Joann Haydel, Lake Pontchartrain Basin Foundation

Learn about how LPBF’s Multiple Lines of Defense strategy can protect us from hurricanes and storms. Participate in a STEM activity where you can build those lines of defense to protect your home and hear about opportunities for field trips to LPBF’s New Canal Lighthouse Museum and Education Center.

General (K-12) Hands-on Workshop

CONGRESS ROOM

Citizen Science and Community Engagement on Public Lands Red River National Wildlife Refuge
Presenters: Isaac Burson, Bossier Parish Schools & David Young, USFWS

Red River NWR staff and Friends of Red River NWR provide opportunities for youth in our community to learn about how to become engaged in conservation as a citizen and as a citizen scientist. Many of the highlighted programs are available at other public places in Louisiana and across the US.

General (K-12) Exemplary Program

CAPITOL ROOM

Environmental Monitoring Using "Eco-Drones"
Presenter: Steven Babcock, LSU Lab School

Drones offer an inexpensive, quick turn around data acquisition tool for a wide range of projects. Students can use these powerful observation platforms to create multi-media digital and graphical projects that will help them meet key instructional goals. Applications include forestry, wildlife conservation studies, coastal management, flood assessment and change monitoring.

9th-12th, AP/College Lesson Demonstration, Exemplary Program

Plenary Session, 9 a.m. to 10 a.m. — Assembly Room

LEEA Meeting & Exhibit Hall, 10:05 a.m. to 10:30 a.m. — Assembly & Senate Rooms
Concurrent Sessions 10:30 a.m. to 11:20 a.m.

ASSEMBLY ROOM
Wild Wetland Wonders
Presenter: Heather Niemic, LSU AgCenter
Put on your boots for a Louisiana wetland adventure. Discover the wild wonders that fly, swim, and crawl around us by learning their life cycles through movement activities.
PreK-4th Grade Hands-on Workshop, Lesson Demonstration

CAUCUS ROOM
Using Pesticide Poisoning to Teach about Environmental Risk Assessment
Presenters: Jen Irving & Maude Walsh, Louisiana State University
Pesticides are important tools, but when used improperly they can hurt wildlife, cause pollution, and make us sick. We will use the hands-on activities in Science Take-Out’s kit “A Case of Pesticide Poisoning” to learn about environmental risk assessment and connect environmental science topics like food webs with environmental health science topics like toxicology.
5th-8th Grade, 9th-12th Grade Hands-on Workshop, Lesson Demonstration

RENOIR ROOM
Marine Micro Plastics
Presenter: Clara Wilson, Mandeville High School & Thomas Gresham, LDWF
This hands-on lab/demonstration introduces students to the processes of mechanical and photo degradation. Students will 'sample' a marine environment and analyze their findings. They will have an opportunity to discuss ramifications as well as possible solutions to marine pollution.
5th-8th Grade, 9th-12th Grade Hands-on Workshop, Lesson Demonstration

CONGRESS ROOM
Coastal Connections to LA Commodities
Presenter: Natalie McElyea, LSU AgCenter
Louisiana’s coastal wetlands are vital to everyone in both the state and the country. However, making the connection between the northernmost parishes and our coastal communities can be a challenge. By highlighting how the infrastructure protected by our coastal wetlands benefits everyone, students get a better idea of how dependent they are on both the coast and the wetlands.
General (K-12) Hands-on Workshop, Lesson Demonstration

CAPITOL ROOM
Using High Altitude Balloons to Explore the Environment
Presenter: Esperanza Zenon, River Parishes Community College
This session will focus on the River Parishes Community College high altitude ballooning club (The RPCC Aces). Atmospheric data collected during the RPCC Aces' balloon launch at Marshall Flight Space Center will be shared. In addition, this session will focus on future data collection efforts of the Club.
9th-12th, AP/College Exemplary Program
Concurrent Sessions 11:30 a.m. to 12:20 p.m.

ASSEMBLY ROOM
What is a Wetland?
Presenter: Heather Niemic, LSU AgCenter
This session will highlight hands-on lessons needed to connect your students to a wetlands unit from the very beginning. Cultivate appreciation for the vital role wetlands play by tasting a wetland, demonstrating subsidence, measuring sea level rise, and building a watershed. Lessons and materials provided by LSU AgCenter’s Youth Wetlands Program.
K-4th Grade, 5th-8th Grade Hands-on Workshop, Lesson Demonstration

CAUCUS ROOM
Activities for the Anthropocene
Presenter: Monica Pasos, Audubon Nature Institute
Combine history and environmental science in this hands-on session exploring how humans have shaped the earth and atmosphere since the Industrial Revolution. Discover how to build interdisciplinary lessons that bring human ecology concepts into the social studies, math and science classrooms.
5th-8th Grade, 9th-12th Grade Hands-on Workshop

RENOIR ROOM
Watershed Webs - A Guide for Teaching About Watersheds in the Classroom
Presenter: John Dupuis, St. Thomas More Catholic High School
Watersheds in Louisiana play a vital role in the environmental health of our home state. Explore methods that assist teachers in explaining, demonstrating, and analyzing their local watershed, how it works and why everyone should care. Resources will include physical models and online sources for teachers to take back to the classroom. Based on the LEEC Watershed Webs Workshop from Summer 2016.
5th-8th Grade, 9th-12th Grade Lesson Demonstration, Exemplary Program

CONGRESS ROOM
Classrooms in Motion
Presenter: Murt Conover, Louisiana Universities Marine Consortium
This hands-on session will highlight and teach you how to make and use videos to communicate science in your classroom. A fast-paced introduction to movie production using easy to use software that will have your students feeling like movie stars!
General (K-12) Hands-on Workshop

CAPITOL ROOM
Teaching Composting to Community College Students
Presenter: Catherine Broussard, River Parishes Community College
This session will focus on information and materials that can be used to teach composting in a community college environment. Participants will be provided with lesson materials on composting.
9th-12th, AP/College Lesson Demonstration

Lunch, Keynote & Recognitions, 12:30–2 p.m. — Assembly Room
Grand Door Prizes will be awarded at the conclusion of the conference.
LEEC Grants Program

The Louisiana Environmental Education Commission would like to fund your next environmental education project. In 2016, we awarded $39,805 in grants that impacted 3,345 students!

The 2017 LEEC Grants application process is currently underway. Go to http://www.wlf.louisiana.gov/grant-opportunities for the applications and more information.

Grant Categories include:

- **Educator Grants** up to $1000 for one or $2000 for a team; for projects that impact Louisiana teachers and students

- **Green Schools Grants** up to $5,000; for Pre-K-12 schools implementing green initiatives aligned with the Green School Program’s three pillars

- **Professional Development Grants** up to $2,500; for direct education of pre-service and/or in-service teachers in Louisiana

- **University Grants** up to $1,200; for Louisiana Masters/Ph.D. students to support research in area of concentration

For questions, please contact Venise Ortego, Environmental Education State Coordinator, at vortego@wlf.la.gov.

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**Buy a Plate to Educate**

Support this conference and other LEEC programs! Call the Office of Motor Vehicles at 1-225-925-6146. Have the number of your current license plate and ask for the Environmental Education Plate and obtain a quote which will include a $26 fee*. Your plate will arrive in about one week.

* $25 goes directly to the LEEC’s Environmental Education programs!
Audubon Nature Institute
Monica Pasos
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Bluebonnet Swamp Nature Center
Shannon Guidry
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Bureau of Ocean Energy Management
Caryl Fagot
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Coastal Wetlands Planning, Protection, and Restoration Act
Mirka Zapletal
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Gordon A. Cain Ctr. for Scientific, Technical, Engineering and Mathematical Literacy
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Lake Pontchartrain Basin Foundation (LPBF)
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LA Agriculture in the Classroom
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LA Science Teachers Association (LSTA)
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LA Universities Marine Consortium (LUMCON)
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LSU AgCenter's 4-H Youth Wetlands Program
Ashley Mullens
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LSU Museum of Natural Science
Valerie Derouen
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U.S. Dept. of Agriculture (USDA)
Deepak Bhatnagar
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University of Louisiana at Monroe
John W. Sutherlin, PhD
sutherlin@ulm.edu
Open to students ages 5-18, the LEEC Environmental Awareness Student Art & Language Arts Contest offers students the opportunity to learn about the natural world and to paint, draw, and write about their experiences in nature. Winners receive cash prizes and an invitation to a reception at the Governor’s Mansion.

Categories:
Group 1—Ages 5-7
Group 2—Ages 8-10
Group 3—Ages 11-13
Group 4—Ages 14-18

Prizes awarded to winners in each category:
First Place—$200
Second Place—$100
Third Place—$75

Winners’ art and language arts will be published in our 2018 calendar.

This year’s theme is “Protecting Louisiana’s Endangered Species.”

Mark your calendar for the 2017 Environmental Awareness Art & Language Arts Contest!

Deadline: Friday, April 21, 2017
Certificate of Participation

is hereby granted to

for completion of _____ hours of Professional Development during the Louisiana Environmental Education State Symposium

February 3-4, 2017

Brenda Walkenhorst, Chair
Louisiana Environmental Education Commission

Brenda Walkenhorst
Louisiana Environmental Education Commission
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<tr>
<th>DATE</th>
<th>TIME</th>
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<td>FRIDAY</td>
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<td>Feb. 3</td>
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<td>BREAK &amp; LEEA MEETING</td>
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<td>LUNCH, KEYNOTE &amp; RECOGNITIONS</td>
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This planner is provided for participants who need documentation of attended sessions. Participants are responsible for collecting their proof of attendance sticker 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, plenary session and the keynote address are set at a total of up to 5 CLUs for the day’s events. Districts have the option to accept this documentation.
LEEC, LDWF, and the U.S. Green Building Council’s Louisiana Chapter are inviting student leaders from across the state to share and learn about the projects and initiatives that have helped to make schools more environmentally sustainable.

The event will take place on Friday, March 24th in New Orleans. Space is limited to about 100 students. Attendance is free for students and their chaperones. Attendees will hear from student presenters about their “green” projects, see exhibits about green career opportunities, and learn about becoming a Green Schools Student Ambassador.

<table>
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<tr>
<th>Time</th>
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<tr>
<td>8:00-8:50</td>
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| 8:30-9:00    | Hands-on Workshop:  
|              | Susan Russell, PreK-4                                                        |
| 8:30-9:00    | Lesson Demonstration:  
|              | Rockey the Raccoon's Enviro Ed Program                                       |
| 8:30-9:00    | Lesson Demonstration:  
|              | Something's Fishy: The Mystery of Extirpation and Extinction                |
| 8:30-9:00    | Lesson Demonstration:  
|              | Save Our Coast: The Multiple Lines of Defense                               |
| 8:30-9:00    | Lesson Demonstration:  
|              | Coastal Connections to LA Commodities                                       |
| 8:30-9:00    | Lesson Demonstration:  
|              | Using High Altitude Balloons                                                |
| 8:30-9:00    | Lesson Demonstration:  
|              | What is a Wetland?                                                          |
| 9:00-10:00   | Plenary Session:  
|              | Monica Sikes, Sara Zimorski and Maria Davidson                             |
| 9:00-10:30   | Break & LEAA Meeting                                                       |
| 9:30-10:00   | Hands-on Workshop:  
|              | Steve Babcock, 9-12, AP/College                                             |
| 9:30-10:00   | Lesson Demonstration:  
|              | Environmental Monitoring Using Eco Drones                                   |
| 9:30-10:00   | Lesson Demonstration:  
|              | Teaching Compost to Compost Students                                         |
| 9:30-10:00   | Lesson Demonstration:  
|              | Using Pesticide Poisoning to Teach Environmental Risk Assessment            |
| 9:30-10:00   | Lesson Demonstration:  
|              | Watershed Webs - A Guide for Teaching About Waterways                      |
| 9:30-10:00   | Lesson Demonstration:  
|              | Coastal Connections to Public Lands                                         |
| 9:30-10:00   | Lesson Demonstration:  
|              | Citizen Science and Environmental Risk Assessment                           |
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| 10:30-11:20  | Hands-on Workshop:  
|              | Monica Pascoe, 5-8                                                          |
| 10:30-11:20  | Lesson Demonstration:  
|              | Marine Micro Plastics                                                       |
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