LOUISIANA ENVIRONMENTAL EDUCATION STATE SYMPOSIUM

February 23-24, 2018
Baton Rouge Marriott
5500 Hilton Ave., Baton Rouge
Thank you to our symposium sponsor.

**FRIDAY Short Courses**

**Diverting Disaster with the Old River Control Structure**, TOUR
Grade Level: 5-12
Location: Van leaves from Marriott
Presenters: Dinah Maygarden and Dr. Ivan Gill, University of New Orleans

**Integrate Local Earth and Environmental Science into Your STEM Curriculum**, HANDS-ON WORKSHOP
Grade Level: K-12
Location: LSU Hilltop Arboretum
Presenters: Dr. Don Duggan-Haas, and Dr. Robert Ross, Paleontological Research Institution in Ithaca, NY

**Keep Louisiana Beautiful Presents the “Hows” and “Whys” of Recycling**, TOUR & HANDS-ON WORKSHOP
Grade Level: K-12
Location: Van leaves from Marriott
Presenters: Susan Russell and Christy Paulsell, Keep Louisiana Beautiful

**BREC Nature Exploration Toolkit**, HANDS-ON WORKSHOP
Grade Level: K-8
Location: BREC’S Bluebonnet Swamp Education Building
Presenter: Shannon Guidry, Education Curator
**SYMPOSIUM Agenda**

**Friday, February 23**
- 8:00 a.m. — 3:30 p.m. | Short Course Activities*
- 5:00 p.m. — 8:00 p.m. | Registration
- 6:00 p.m. — 8:00 p.m. | Social Mixer*, Meet the Exhibitors

**Saturday, February 24**
- 7:00 a.m. — 8:00 a.m. | Registration/ Continental Breakfast*
- 8:00 a.m. — 8:50 a.m. | Concurrent Sessions
- 9:00 a.m. — 9:50 a.m. | Concurrent Sessions
- 10:00 a.m. — 10:30 a.m. | Break & LEEA Meeting
- 10:30 a.m. — 11:20 a.m. | Concurrent Sessions
- 11:30 a.m. — 1:00 p.m. | Lunch*, Keynote & Recognitions
- 1:00 p.m. — 1:50 p.m. | Round Table Presentations
- 2:00–p.m. — 2:50 p.m. | Concurrent Sessions
- 3:00 p.m. | Grand Door Prizes

*Meals Provided

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**Stick Around for the Grand Door Prizes!**

We’ll announce the winners of the grand door prizes upon the conclusion of the conference at 3 p.m. on Saturday. They include:
- Environmental Education Specialty License Plates
- LDWF Fisheries Adventure
- Weekend at a State Park

**SYMPOSIUM Evaluations**


Filling out the **Overall Symposium Evaluation** automatically enters you in our grand prize drawing and, just as importantly, provides us with feedback we can use to make future events even better!

Just follow the link above or use the QR code to the left.
Shelby Barrett, Southeastern Louisiana University, *Growth Responses of Three Wetland Plant Species to Various Levels of Flooding and Nutrients*

Matthew Blanchard, Louisiana State University, *Recruitment of longleaf pine in an old-growth pine savanna*

Matthew Faldyn, Louisiana State University, *A CURE for Invasive Species: Understanding invasive species competition in Louisiana milkweed communities*

Stephen Formel, Tulane University, *Differential Gene Expression and Microbial Communities in Roots of Spartina alterniflora Under Oil Pollution Stress*

Brock Geary, Tulane University, *Foraging brown pelicans (Pelecanus occidentalis)*

Rachel Harman, Louisiana State University, *Movement Behavior of a Gregarious Insect within a Fragmented Patch*

Nathan Harms, Louisiana State University, *Biological control at a range margin: herbivore mediated competitive interactions*

John Herbert, Tulane University, *The Role of Coastal Wetlands on Shorebird Migration in the Northern Gulf of Mexico*

Hollis Jones, Louisiana State University, *Biomarkers of resilience in Crassostrea virginica*

Cody Kent, Tulane University, *Population genetics of a migratory bird population*

Devin Preston, University of New Orleans, *Temporal Heterogeneity as a Driver of Microevolution of Plasticity in Thermotolerance in the Differential Grasshopper*

Lori Radunzel-Davis, Louisiana State University, *Impact of soil microbes on cogongrass growth in native and non-native soil*

Jeremy Reiman, Louisiana State University, *High-Water Effects on Carbon Transport in the Mississippi River*

Christen Steele, Tulane University, *How Changes to Migratory Behavior Impact Disease Dynamics: A Case Study within Eastern Migratory Populations of the Monarch Butterfly (Danaus plexippus)*

Lance Umlang, Louisiana State University, *Effects of hurricanes, in the context of ongoing sea level rise, on plant communities in coastal transitions*

Bo Wang, Louisiana State University, *Dynamics of 30 large channel bars in the Lower Mississippi River in response to river engineering from 1985 to 2015*

Elliot Weidow, University of New Orleans, *Diversity in an Invasive Plant: a historical and contemporary perspective*

Thank you, LEEC Research Grant Recipients.
Napoleon Room
STEM Event Planning
General (K-12) - Hands-On Workshop, Exemplary Program
You will easily become the most popular science teacher with these STEM event ideas; hold a STEM night, have a STEM fair, plan an engineer's week event in your classroom, and so much more! Use a STEM event to connect families with local outreach groups, scientists and engineers. We will walk you through the basic steps of planning and holding a Green-themed STEM event. A sample schedule of each event, timeline for planning, tools for finding community partners, sample email to send to potential community partners, and online resources will be provided.

Presenter: Kristen Robertson Oliveri, Kenner Discovery - Health Sciences Academy

Beauregard Room
Let's Go Fishing
K-4th Grade, 5th-8th Grade - Hands-On Workshop
Join us to explore LDWF's updated aquatic education, interactive, student activity guidebook for 4th through 6th grade students. The book is correlated to the new LA Science Standards. Students will learn biodiversity of Louisiana fish species, spawning habits, fish external and internal anatomy, aquatic food webs, invasive species and much more. Teachers can download lesson plans and background information to aid in assisting students with book activities or book-directed research topics. Classroom sets of the Let's Go Fishing book are FREE to all schools while supplies last.

Presenter: Angela Capello, Louisiana Department of Wildlife and Fisheries

Azalea Room
Watch the Delta Grow
5th-8th Grade, 8th-12th Grade - Lesson Demonstration
Experience Wax Lake Delta, a living laboratory in Louisiana delta formation. Watch the Delta Grow is a unique collaboration between scientists, educators and designers to illustrate physical and biological processes in our state. Lessons focus on how a delta builds and changes over time and space.

Presenter: Dani DiIullo, Louisiana Sea Grant

Magnolia Room
Composting and Aquaponics
5th-8th Grade, 8th-12th Grade - Exemplary Program
Creating a significant environmental presence in your classroom and school grounds is greatly enhanced with grants from LEEC. A cafeteria composting program was created in 2016 and this was followed by aquaponics in the classroom in 2017. Aquaponics gives students hands-on experience growing food while learning about aquaculture.

Presenter: John Dupuis, St. Thomas More Catholic High School

Camelia Room
Microplastics in our Environment
8th-12th Grade, AP/College - Hands-On Workshop
We will filter water and look through soil samples to identify microplastics. Teachers will learn techniques to collect samples and analyze for microplastics in any water or soil around them.

Presenter: Alma Robichaux, BTNEP


**Concurrent Sessions**

9 a.m. to 9:50 a.m.

**Napoleon Room**  
**Dissecting the new LA Science Standards**  
*General (K-12) - Lesson Demonstration, Exemplary Program*  
New standards can be both overwhelming and confusing to educators, especially multidimensional ones. This session will provide you with a better understanding of them, give you more confidence in using them and resources so that you can effectively use them in your teaching.  
**Presenter:** Lynda Delo, Caddo Parish Schools

**Beauregard Room**  
**Turnip the Heat**  
*K-4th Grade, 5th-8th Grade - Lesson Demonstration, Exemplary Program*  
Compost Production Education. Learn technical information about school based compost production and specific teaching methods for integrating a compost curriculum. Edible Schoolyard New Orleans will explore challenges, lessons learned, and successes from each of our four program sites.  
**Presenter:** Matt Durham, Edible Schoolyard New Orleans  
**Additional Presenters:** Kerrie Partridge, Zach O'Donnell

**Azalea Room**  
**Listen, Learn, Lead - Empowering the Next Generation**  
*5th-8th Grade, 8th-12th Grade - Exemplary Program*  
Do you supervise a Green Club, assist with an Environmental Club or just have a student who wants to change the world? Join us as we discuss current environmental issues, conservation initiatives and opportunities for youth to make a difference. You can also join our listserv for updates on upcoming Eco Club workshops to bring chapter advisors together, share ideas and discuss options for collaboration among the clubs.  
**Presenter:** Stephanie Joseph, Audubon Zoo

**Magnolia Room**  
**GIS Industry Based Certification and It's FUN!**  
*5th-8th Grade, 8th-12th Grade - Hands-On Workshop*  
For this presentation we will use Esri's Story Map application to present GIS software, Geo Inquiries which are ready to go lesson plans for much of the content currently being taught and information on how to register for the GIS IBC course and credential.  
**Presenter:** Fran Harvey, LA RS and GIS Institute

**Camelia Room**  
**Shining Light on Pollution**  
*5th-8th Grade, 8th-12th Grade, AP/College - Hands-On Workshop, Lesson*  
Demonstration  
Are you interested in adding coding or tinkering with electronics into your curriculum but not sure where to start? Come learn how to build your own air pollution detector using an Arduino and basic electronics. No prior experience with code, electrical engineering, or environmental measurements needed! A limited number of tablets will be available but participants are encouraged to bring their own laptops.  
**Presenter:** Jen Irving, Louisiana State University  
**Additional Presenter:** Maud Walsh

**Break and LEEA Meeting**  
10 a.m. to 10:30 a.m. in Salon
Concurrent Sessions

10:30 a.m. to 11:20 a.m.

**Napoleon Room**
**Classifying Classroom Pets**
*General (K-12) - Exemplary Program*
Which animals make good classroom pets? What constitutes a "good" pet? Pets in the classroom can be a wonderful way to teach students, but how do we do it properly? Join us to discuss if an animal in the classroom is the right option for you, your teaching style, your students, and- most importantly- the animal.
**Presenter: Tyler Annarino, Audubon Nature Institute**

**Beauregard Room**
**Using Picture Books in Environmental Education**
*K-4th Grade - Lesson Demonstration*
For elementary students topics of the environment can be overwhelming and/or uninteresting. Using selected science and nature picture books, THREE LITTLE SHRIMP and THE OAK TREE, this session will assist science teachers, parents and other educators in how to use both books to help elementary children learn about Louisiana's environment. By the end of the session attendees will be able to use these and other books to build a practical interest in our environment.
**Presenter: Steve Spires, Honey Island Elementary**

**Azalea Room**
**STEM Activities for a Sustainable Planet**
*5th-8th Grade - Hands-On Workshop*
Discover hands-on activities on real-world human ecology concepts (population growth, natural resource use and biodiversity) while building foundational math and science skills. Receive electronic lesson plans matched to state standards.
**Presenter: Monica Pasos, Audubon Nature Institute**

**Magnolia Room**
**Supporting Student-directed Research on Coastal Topics**
*8th-12th Grade - Exemplary Program*
We will share lessons learned and best practices for supporting student-centered, place-based, science research at several schools in Greater New Orleans; Students will help guide you through the process of developing a testable question about coastal wetlands topics, developing a research plan, field-based data collection and analysis, and producing the final product.
**Presenter: Dinah Maygarden, University of New Orleans**
**Additional Presenter: Marla Watts, Lake Forest Charter**

**Camelia Room**
**Engaging High School Students in Future Water Quality Challenges**
*8th-12th Grade, AP/College - Hands-On Workshop*
Water quality and quantity are important to global stability, human health, economic development and food supplies. Baylor University and Texas A&M University- Corpus Christi are partnering on a project focused on examining how things we use in our everyday lives can end up in wastewater, and potential impacts to the aquaculture industry. Professional development opportunities for teachers and informal science educators will be shared during this session.
**Presenter: Melissa Mullins, Baylor University**
Fire and Brimstone and Fort McMurray: Reasons and Strategies for Talking About Climate Change, Drs. Don Duggan-Haas and Robert Ross

The overwhelming majority of scientists who study the climate accept that the global climate is warming, that this change is driven by human activities, that it is already causing serious and worsening problems, and that we can do things to make coming changes less bad. The subject, however, remains controversial among the general public and many of our political leaders flatly reject the scientific consensus. Why does a substantial minority of Americans reject climate science? Often, our intuitive responses to controversial statements is counterproductive and deepens convictions more than understandings. Climate change has almost certainly worsened disasters in recent years. We'll discuss the perils and promise of apocalyptic talk, look into the role of moral framing of discussion of climate change, and share rules of thumb for discussing controversial issues more broadly. We'll also discuss the potential relevant green STEM career opportunities arising from responding to climate change. The talk draws from The Teacher-Friendly Guide to Climate Change, by Ingrid Zabel, Don Duggan-Haas, and Robert Ross.

Don Duggan-Haas is the Director of Teacher Programs at The Paleontological Research Institution and its Museum of the Earth & Cayuga Nature Center in Ithaca, NY. He also currently serves as President of the National Association of Geoscience Teachers. Don’s work in public outreach, teacher education, teacher professional development and curriculum materials development marries deep understandings of how people learn with deep understandings of the Earth system. He is a nationally regarded expert in climate and energy education, place-based and technology-rich Earth and environmental science education. He has led educator professional development programming throughout the US. He also is co-author of the books, The Teacher-Friendly Guide to Climate Change and The Science Beneath the Surface: A Very Short Guide to the Marcellus Shale. He served on the Earth & Space Science Design Team for the National Research Council’s A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas. Don has a BA in physics from SUNY Geneseo, an MS in Earth Science Education from SUNY Cortland, and PhD in Curriculum, Teaching and Educational Policy with a focus on Science Education from Michigan State University. He has taught at Colgate, Cornell, and Michigan State Universities, Kalamazoo College, and Tapestry and Norwich (New York) High Schools.

Robert Ross is the Associate Director for Outreach at the Paleontological Research Institution (PRI), its Museum of the Earth and Cayuga Nature Center. PRI offers Earth system education to audiences of all ages and backgrounds, in a wide variety of exhibitions, presentations, professional development, and written resources. In addition to overseeing the outreach program at PRI since 1997, Ross has participated in various national initiatives to improve Earth science education, such as development of the national Earth Science Literacy Principles. He is founder and a co-editor of the ten-volume set of PRI’s Teacher-Friendly Guides on topics of regional Earth science, evolution, and climate change and is co-author of the books The Teacher-Friendly Guide to Climate Change -- Past, Present, and Future and The Science Beneath the Surface: A Very Short Guide to the Marcellus Shale. Ross received his Ph.D. in Earth and Planetary Sciences from Harvard University, did a post-doctoral fellowship in paleoclimatology at the University of Kiel (Germany), and was on the Faculty of Sciences at Shizuoka University (Japan) before arriving in Ithaca. He also teaches classes at Cornell University and Ithaca College.
Educational Opportunities at LUMCON
Join the Louisiana Universities Marine Consortium (LUMCON) in exploring the exciting educational opportunities available in Louisiana’s estuaries and at LUMCON’s facilities.

**Presenter:** Murt Conover, LUMCON

**Water Research**
Focus on water research and education as CPRA shares exemplar programs, including the Center for River Studies and the Youth Wetlands Program.

**Presenter:** Morgan Crutcher, CPRA

**Composting 101**
Find out what it takes to get composting started at your school, and how a school garden program can compliment your learning objectives.

**Presenter:** Matt Durham, Edible School Yards

**Louisiana Student Standards for Science**
Come learn about how investigative approaches are used in the new Louisiana Student Standards for Science.

**Presenter:** Lydia Hill, LDOE

**Writing Successful Grants**
Learn from the pros what it takes to write a successful grant, and what local grant opportunities are available for you and your school.

**Presenter:** La. Environmental Education Commission Board Member

**Student Field Experiences**
We will share first hand experiences from taking students into the field and using place-based instruction that focuses on water quality.

**Presenter:** Valerie Nehrbass, Berchmans Academy Lower School

**Kids to Parks Events**
Learn how to host a KTP event, learn how to apply for the KTP contest where you can get grant funds for an outdoor field trip.

**KTP is a nationally coordinated effort designed to connect kids and families with their local, state, and national parks.**

**Presenter:** Amy Perrodin, Zachary Schools

**Water-Wise in BR**
Explore groundwater use in Baton Rouge and other areas of the state. Discussion on sustainable management strategies, ideas and input on the statewide expansion of the “Water-Wise in BR” curriculum; for review/distribution, state groundwater-use choropleths from USGS, and other graphics.

**Presenter:** Matthew Reonas, La. Office of Conservation

**Louisiana Floor Map**
Using a 16 X 20 Floor Map of a satellite image of Louisiana, teachers will be able to teach geography, land loss, habitat differences, water flow and much, much more.

**Presenter:** Alma Robichaux, BTNEP

**Climate Change in Rural Communities**
While much of the attention about Climate Change reflects an urban-centric focus, this table will focus on adaptation and mitigation strategies as they relate to rural communities.

**Presenter:** John W. Sutherlin, University of Louisiana Monroe

**School-Wide Recycling**
Successful recycling programs require institutional changes. ULL will share what they have discovered works when initiating a school-wide recycling program.

**Presenter:** Gretchen Vancor, University of Louisiana at Lafayette

**Environmental Health Data**
Discover LDH’s Tracking Portal and the environmental health data it contains, and how it can be used in your classroom.

**Presenter:** Emán Williams, La. Department of Health
Concurrent Sessions

2 p.m. to 2:50 p.m.

**Napoleon Room**
**There's a Marsh in my Backyard?**
*General (K-12) - Hands-On Workshop*
Come learn about LPBF's urban marsh located right at the mouth of Bayou St. John. Discover the many opportunities for students to learn about marsh ecosystems, stewardship, and water quality. Find out how LPBF's educators can involve your students in meaningful outdoor education experiences.
**Presenter:** Joann Haydel, Lake Pontchartrain Basin Foundation

**Beauregard Room**
**Alligator Cuisine**
*5th-8th Grade - Hands-On Workshop*
Participants will take part in a simulation scenario in which they will be determining food “preferences” of alligators. Teachers will examine alligator specimens! They will also create a food web from alligator food chain cards and experience a LEAP like task-assessment.
**Presenter:** Brian Fontenot, Calcasieu Parish Middle School Science Consultant

**Azalea Room**
**Journey 2050**
*5th-8th Grade, 8th-12th Grade - Lesson Demonstration, Exemplary Program*
Explore world food sustainability on this virtual simulation that encourages students to make decisions and adjust them as they see their impact of social, economic and environmental factors at a local and global scale. Discover how easily this inquiry based approach to global food issues fits into the curriculum. www.journey2050.com
**Presenter:** Tiffany Ballow, Nutrients for Life

**Magnolia Room**
**Climate Change Graphics**
*5th-8th Grade, 8th-12th Grade - Hands-On Workshop*
Climate Change graphics focuses on enhancing observation and interpretation skills through climate data, graphs and maps in science, math and geography classrooms. The graphics are directly from published research on climate and climate change and can be examined individually or in groups. Each graphic has focus questions to help students interpret what they see in the graphic. Keys are provided.
**Presenter:** Dianne Lindstedt, Louisiana Sea Grant

**Camellia Room**
**Energy Efficiency: Making a Difference Can Start Early**
*5th-8th Grade, 8th-12th Grade - Hands-On Workshop*
The school building is a perfect learning laboratory for students to explore energy consumption & conservation utilizing tools like a Kill-A-Watt meter, Flicker Checker, & light meter. Join in this hands-on session as we investigate and measure energy consumption, determine costs, quantify environmental effects, and devise a plan to reduce energy use.
**Presenter:** Judy Reeves, National Energy Education Development Project
**Special Exhibitors**

9 a.m. to 2 p.m.— Exhibit Area

**Hurst Middle Wetland Watchers** is a school-based service-learning project that involves Hurst students along with student volunteers from eight other schools in a variety of service activities to improve their local habitat and community. For over 20 years Wetland Watcher students have lead field trips, periodic litter collection events, tree plantings, host community events, and speak to over 80,000 people a year through outreach events. Through education, service, and awareness, Wetland Watcher students lead a community effort for wetland conservation.

Be sure to visit with these knowledgeable middle school students on their many environmental activities.

**Special Presenters**

10:30 a.m. to 11:20 a.m.—Magnolia Room

**Supporting Student-directed Research on Coastal Topics:** Student researchers Pierce Anderson, Mai Burrell, Lauren Ejiaga, Corinne Folse, Tanesia Green, Francis Hoang, Tristan Jackson, Kevin Nguyen, Kimia Sadat Mirlohi, and Lexys Stromeyer from Karr High, Kenner Discovery - Health Sciences Academy, and Lake Forest Charter join co-presenters Dinah Maygarden and Marla Watts as they share lessons learned and best practices for supporting student-centered, place-based, science research.

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**Buy a Plate to Educate**

Support this conference and other LEEC programs! Call the Office of Motor Vehicles at 1-225-925-6381. 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!
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<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Email</th>
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<tbody>
<tr>
<td>Tyler Annarino</td>
<td>Audubon Nature Institute</td>
<td><a href="mailto:tannarino@auduboninstitute.org">tannarino@auduboninstitute.org</a></td>
</tr>
<tr>
<td>Tiffany Ballow</td>
<td>Nutrients for Life Foundation</td>
<td><a href="mailto:tballow@nutrientsforlife.org">tballow@nutrientsforlife.org</a></td>
</tr>
<tr>
<td>Angela Capello</td>
<td>LA Dept. Wildlife &amp; Fisheries</td>
<td><a href="mailto:acapello@wlf.la.gov">acapello@wlf.la.gov</a></td>
</tr>
<tr>
<td>Murt Conover</td>
<td>La. Universities Marine Consortium</td>
<td><a href="mailto:mconover@lumcon.edu">mconover@lumcon.edu</a></td>
</tr>
<tr>
<td>Morgan Crutcher</td>
<td>CPRA</td>
<td><a href="mailto:morgan.crutcher@la.gov">morgan.crutcher@la.gov</a></td>
</tr>
<tr>
<td>Lynda Delo</td>
<td>Caddo Parish Public Schools</td>
<td><a href="mailto:ljdelo@caddoschools.org">ljdelo@caddoschools.org</a></td>
</tr>
<tr>
<td>Dani DiIullo</td>
<td>Louisiana Sea Grant</td>
<td><a href="mailto:ddiullo@lsu.edu">ddiullo@lsu.edu</a></td>
</tr>
<tr>
<td>Don Duggan-Haas</td>
<td>Paleontological Research Institution</td>
<td><a href="mailto:dugganhaas@priweb.org">dugganhaas@priweb.org</a></td>
</tr>
<tr>
<td>John Dupuis</td>
<td>St. Thomas More Catholic High School</td>
<td><a href="mailto:john.dupuis@stmcougars.net">john.dupuis@stmcougars.net</a></td>
</tr>
<tr>
<td>Matt Durham</td>
<td>Edible Schoolyard New Orleans</td>
<td><a href="mailto:matt@esynola.org">matt@esynola.org</a></td>
</tr>
<tr>
<td>Brian Fontenot</td>
<td>Calcasieu Parish School System</td>
<td><a href="mailto:brian.fontenot@cpsb.org">brian.fontenot@cpsb.org</a></td>
</tr>
<tr>
<td>Shannon Guidry</td>
<td>BREC’s Bluebonnet Swamp Nature Ctr.</td>
<td><a href="mailto:sguidry@brec.org">sguidry@brec.org</a></td>
</tr>
<tr>
<td>Fran Harvey</td>
<td>LA RS and GIS Institute</td>
<td><a href="mailto:fharvey@ggsonline.org">fharvey@ggsonline.org</a></td>
</tr>
<tr>
<td>Joann Haydel</td>
<td>Lake Pontchartrain Basin Foundation</td>
<td><a href="mailto:joannh@saveourlake.org">joannh@saveourlake.org</a></td>
</tr>
<tr>
<td>Lydia Hill</td>
<td>Louisiana Department of Education</td>
<td><a href="mailto:lydia.hill@la.gov">lydia.hill@la.gov</a></td>
</tr>
<tr>
<td>Jen Irving</td>
<td>Louisiana State University</td>
<td><a href="mailto:jirvin6@lsu.edu">jirvin6@lsu.edu</a></td>
</tr>
<tr>
<td>Stephanie Joseph</td>
<td>Audubon Zoo</td>
<td><a href="mailto:sjoseph@auduboninstitute.org">sjoseph@auduboninstitute.org</a></td>
</tr>
<tr>
<td>Dianne Lindstedt</td>
<td>Louisiana Sea Grant</td>
<td><a href="mailto:dlindst@lsu.edu">dlindst@lsu.edu</a></td>
</tr>
<tr>
<td>Dinah Maygarden</td>
<td>University of New Orleans</td>
<td><a href="mailto:dmaygard@uno.edu">dmaygard@uno.edu</a></td>
</tr>
<tr>
<td>Melissa Mullins</td>
<td>Baylor University</td>
<td><a href="mailto:melissa_mullins@baylor.edu">melissa_mullins@baylor.edu</a></td>
</tr>
<tr>
<td>Jean May-Brett</td>
<td>La. Science Teachers Assn.</td>
<td><a href="mailto:jam05@bellsouth.net">jam05@bellsouth.net</a></td>
</tr>
<tr>
<td>Valerie Nehrbass</td>
<td>Berchmans Academy Lower School</td>
<td><a href="mailto:vnehrbass@sshcoteau.org">vnehrbass@sshcoteau.org</a></td>
</tr>
<tr>
<td>Monica Pasos</td>
<td>Audubon Nature Institute</td>
<td><a href="mailto:mpasos@AudubonInstitute.org">mpasos@AudubonInstitute.org</a></td>
</tr>
<tr>
<td>Amy Perrodin</td>
<td>Zachary Schools</td>
<td><a href="mailto:aimee.perrodin@zacharyschools.org">aimee.perrodin@zacharyschools.org</a></td>
</tr>
</tbody>
</table>
**Presenter Directory**

Matthew Reonas  
La. Office of Conservation  
matthew.reonas@la.gov

Judy Reeves  
National Energy Education Development Project  
jreeves@stmcs.com

Kristin Robertson Oliveri  
Kenner Discovery  
kristin.oliveri@discoveryhsf.org

Alma Robichaux  
BTNEP  
Alma@BTNEP.org

Rob Ross  
Paleontological Research Institution  
ross@priweb.org

Susan Russell  
Keep Louisiana Beautiful  
srussell@keeplouisianabeautiful.org

Steve Spires  
Honey Island Elementary  
Jstevenspires@charter.net

John W. Sutherlin, Ph.D.  
University of Louisiana Monroe  
sutherlin@ulm.edu

Gretchen Vancor  
University of Louisiana at Lafayette  
gal2730@louisiana.edu

Emán Williams  
La. Department of Health  
eman.williams@la.gov

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**LEEC Grant Recipients**

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<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>School/Organization</th>
<th>Project Title</th>
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<td>Pre-K is Getting Lean and Going Green</td>
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<td>Tess</td>
<td>Boyet Junior High</td>
<td>Environmental Quality Testing Equipment</td>
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<td>Kees</td>
<td>Jennifer</td>
<td>Buckeye High School</td>
<td>The Study of Environmental Impacts and Sustainability</td>
<td>492</td>
<td>$995.00</td>
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<td>Broady</td>
<td>Rahn</td>
<td>Arthur Ashe Charter School</td>
<td>Putting the Heat on our Composting System</td>
<td>751</td>
<td>$3,240.00</td>
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<td>Dupuis</td>
<td>John</td>
<td>St. Thomas More Catholic High School</td>
<td>Comprehensive School Greening Program</td>
<td>995</td>
<td>$4,998.00</td>
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<td>Johnson</td>
<td>Johmyrin</td>
<td>ReNEW Schaumburg</td>
<td>ReNEWed Recycling and Resource Reduction</td>
<td>200</td>
<td>$3,453.00</td>
</tr>
</tbody>
</table>

**Educator Grants**

**Green School Grants**

**Professional Development Grants**

LeBlanc Shauna  
Lafayette Parish School System  
Using an Application Programmable Interface (API) to Design Solutions for a Cleaner Tomorrow  
20 | $2,500.00
4-H Youth Wetlands Program
Heather Niemic
hniemic@agcenter.lsu.edu

Barataria-Terrebonne National Estuary Program
Alma Robichaux
Alma@BTNEP.org

Bureau of Ocean Energy Management
Wilfred Times
wilfred.times@boem.gov

Coastal Protection and Restoration Authority
Joseph McClatchy
joseph.mcclatchy@la.gov

Coastal Wetlands Planning, Protection, and Restoration Act
Mirka Zapletal
mzapletal@usgs.gov

Ducks Unlimited
Scott Graham
sgraham@ducks.org

Inspired Books Publishing
Steve Spires
steve@jstevenspires.com

Lake Pontchartrain Basin Foundation
Joann Haydel
joannh@saveourlake.org

LARSGIS Institute
Mary-Katherine Moore
mkmoore@gginstitute.org

La. Agriculture in the Classroom
Lynda Danos
lyndad@lfbf.org

La. Department of Environmental Quality
Linda M. Piper
linda.piper@la.gov

La. Department of Natural Resources
Phyllis Darensbourg
phyllis.darensbourg@la.gov

La. Department of Wildlife & Fisheries
Angela Capello
acapello@wlf.la.gov

La. Department of Wildlife & Fisheries
Carrie Salyers
csalyers@wlf.la.gov

La. Environmental Education Association
Connie Conner
cconner@beau.k12.la.us

La. Environmental Education Commission
Venise Ortego
vortego@wlf.la.gov

La. Science Teachers Association
Susannah Craig
susannahcraig@smedprogram.org

LSU Museum of Natural Science
Valerie Derouen
vderou1@lsu.edu

LSU Shreveport
Sarah Bare
sarah.bare@apdegrees.com

La. Universities Marine Consortium
Murt Conover
mconover@lumcon.edu

Merry Green Marvel Adventure & Service Learning
Steve Lawless
bikeinrain@yahoo.com

National Energy Education Development Project
Judy Reeves
jreeves@stmcs.com

Nutrients for Life
Tiffany T. Ballow
tballow@nutrientsforlife.org

STEM Library Lab
Todd Wackerman
twackerman@STEMLibraryLab.org

University of La. Monroe
Sean Chenoweth
chenoweth@ulm.edu

University of La. Monroe
John Sutherlin
sutherlin@ulm.edu

US Dept. of Agriculture
Deepak Bhatnagar
depak.bhatnagar@ars.usda.gov
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 2019 calendar.

This year’s theme is “Green STEM Careers.”
Info at http://www.wlf.louisiana.gov/art-contest

Mark your calendar for the 2018 Environmental Awareness Art & Language Arts Contest!
Deadline: Friday, April 20, 2018
Certificate of Participation

is hereby granted to

for completion of ______ hours of Professional Development during the Louisiana Environmental Education State Symposium February 23-24, 2018

Angela Capello, Chair

Louisiana Environmental Education Commission

Certificat of Participation

for completion of ______ hours of Professional Development during the Louisiana Environmental Education State Symposium February 23-24, 2018

Angela Capello, Chair

Louisiana Environmental Education Commission
## 2018 Symposium Planner/Organizer

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>SHORT COURSE TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRIDAY</td>
<td>8 a.m. - 3:30 p.m.</td>
<td>7</td>
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<tr>
<td>Feb. 23</td>
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<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>SESSION TITLES</th>
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<tbody>
<tr>
<td>SATURDAY</td>
<td>8 a.m. - 8:50 a.m.</td>
<td>1</td>
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<tr>
<td>Feb. 24</td>
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<tr>
<td>SATURDAY</td>
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<tr>
<td>SATURDAY</td>
<td>10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td></td>
<td></td>
<td>BREAK &amp; LEEA MEETING</td>
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<td>SATURDAY</td>
<td>10:30 a.m. - 11:20 a.m.</td>
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<tr>
<td></td>
<td></td>
<td>LUNCH, KEYNOTE &amp; RECOGNITIONS</td>
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<tr>
<td>SATURDAY</td>
<td>11:30 a.m. - 1:00 p.m.</td>
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<tr>
<td>SATURDAY</td>
<td>1:00 p.m. - 1:50 p.m.</td>
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<td>SATURDAY</td>
<td>2:00 p.m. - 2:50 p.m.</td>
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Total Contact Hours

Grand Door Prize Drawing Immediately Following Final Session

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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, round table presentations 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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:50</td>
<td>STEM Event Planning</td>
<td>Kristin Robertson Oliveri</td>
<td>K-12</td>
</tr>
<tr>
<td></td>
<td>Let's Go Fishing</td>
<td>Angela Capello</td>
<td>K-4th, 5th-8th</td>
</tr>
<tr>
<td></td>
<td>Watch the Delta Grow</td>
<td>Dani DiIullo</td>
<td>5th-8th, 8th-12th</td>
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<td></td>
<td>Composting and Aquaponics</td>
<td>John Dupuis</td>
<td>5th-8th, 8th-12th</td>
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<tr>
<td></td>
<td>Microplastics in our Environment</td>
<td>Alma Robertaux</td>
<td>5th-8th, 8th-12th</td>
</tr>
<tr>
<td></td>
<td>There's a Marsh in my Backyard?</td>
<td>Napoleon, Maud Walsh</td>
<td>8th-12th, AP/College</td>
</tr>
<tr>
<td>9:00-9:50</td>
<td>Dissecting the new LA Science Standards</td>
<td>Lynda DeLo</td>
<td>General (K-12)</td>
</tr>
<tr>
<td></td>
<td>Engaging High School Students in Future Water</td>
<td>Matt Dunphy, Kerrie</td>
<td>General (K-12)</td>
</tr>
<tr>
<td></td>
<td>STEM Activities for a Sustainable Planet</td>
<td>Monica Pasos</td>
<td>5th-8th, 8th-12th</td>
</tr>
<tr>
<td></td>
<td>Supporting Student-directed Research on Coastal Topics</td>
<td>Dinah Maygaardan, Maria Watt</td>
<td>5th-8th, 8th-12th</td>
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<tr>
<td></td>
<td>STEM Event Planning</td>
<td>Brian Fontenot</td>
<td>General (K-12)</td>
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<tr>
<td></td>
<td>Alligator Cuisine</td>
<td>Journey 2050</td>
<td>General (K-12)</td>
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<td>Journey 2050</td>
<td>Tiffany Ballow</td>
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<td></td>
<td>Early Energy Efficiency: Making a Difference Can Start</td>
<td>Judy Reeves</td>
<td>General (K-12)</td>
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<tr>
<td>10:00-10:30</td>
<td>Lunch, Keynote and Recognitions</td>
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<td></td>
<td>Round Table Presentations</td>
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<td>11:00-11:30</td>
<td>Classifying Classroom Pets</td>
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<td></td>
<td>STEM Event Planning</td>
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