SESSION LINEUP FOR STATE SYMPOSIUM

The LEEC is very excited to share the lineup for the upcoming Environmental Education State Symposium, to be held February 23 & 24 at the Baton Rouge Marriott.

Remember, there’s just one more week to take advantage of our special early-bird registration fee of just $45!

Our keynote this year will be delivered by Dr. Don Duggan-Haas, Director of Teacher Programming and Dr. Rob Ross, Associate Director of Outreach, from the Paleontological Research Institute and it’s museum. PRI is located in Ithaca, New York and is affiliated with Cornell University.

PRI has recently completed a $1.8 million dollar, multi-year project to develop teacher-friendly regional guides to teaching earth science. You can find the South-Central US guide at http://geology.teacherfriendlyguide.org/index.php/prologue-sc.

Duggan-Haas and Ross are also presenting a short course focused on using virtual field experiences in the classroom on Friday, February 23. You can view the description to theirs and other available short courses at http://www.wlf.louisiana.gov/louisiana-environmental-education-symposium#shortcourses.

Our Saturday concurrent sessions offer a wide variety of topics for every grade level. See the descriptions below:

8:00 a.m.
Azalea Room
STEM Event Planning
General (K-12)
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

Magnolia Room
Let's Go Fishing
K-4th Grade, 5th-8th Grade
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
Beauregard Room
Climate Change Graphics
5th-8th Grade, 8th-12 Grade
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 State University

Orleans Room
Composting and Aquaponics
5th-8th Grade, 8th-12 Grade
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

Acadia Room
Microplastics in our Environment
8th-12 Grade, AP/College
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

9:00 a.m.
Azalea Room
Dissecting the new LA Science Standards
General (K-12)
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

Magnolia Room
Turnip the Heat
K-4th Grade, 5th-8th Grade
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

Beauregard Room
Listen, Learn, Lead - Empowering the Next Generation
5th-8th Grade, 8th-12 Grade
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

Orleans Room
GIS Industry Based Certification and It's FUN!
5th-8th Grade, 8th-12 Grade
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

Acadia Room
Shining Light on Pollution
5th-8th Grade, 8th-12 Grade, AP/College
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

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10:30 a.m.,

**Azalea Room**

**Classifying Classroom Pets**

**General (K-12)**

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

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**Magnolia Room**

**Using Picture Books in Environmental Education**

**K-4th Grade**

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

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**Beauregard Room**

**STEM Activities for a Sustainable Planet**

**5th-8th Grade**

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

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**Orleans Room**

**Watch the Delta Grow**

**5th-8th Grade, 8th-12 Grade**

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 Dilullo, Louisiana Sea Grant

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**Acadia Room**

**Engaging High School Students in Future Water Quality Challenges**

**8th-12 Grade, AP/College**

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

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2:00 p.m.,

**Azalea Room**

**There's a Marsh in my Backyard?**

**General (K-12)**

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

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**Magnolia Room**

**Alligator Cuisine**

**5th-8th Grade**

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*

**Beauregard Room**
**Journey 2050**
*5th-8th Grade, 8th-12 Grade*
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*

**Orleans Room**
**Supporting Student-directed Research on Coastal Topics**
*8th-12 Grade*
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 Presenters: Janell Simpson, Mary Gubala*

**acadia Room**
**Energy Efficiency: Making a Difference Can Start Early**
*5th-8th Grade, 8th-12 Grade*
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*

Find a simplified “bird’s-eye view” of the schedule here.


If you wish to pay by check, please register at the above address, then send your check, paid to the order of the Louisiana Wildlife and Fisheries Foundation, to the following address:

**Venise Ortego**
Louisiana Department of Wildlife and Fisheries
5652 Hwy. 182
Opelousas, LA 70570

**Hotel Information:**
Baton Rouge Marriott 1-800-228-9290
Room rate is $97 per night for single or double occupancy. Reservation link.