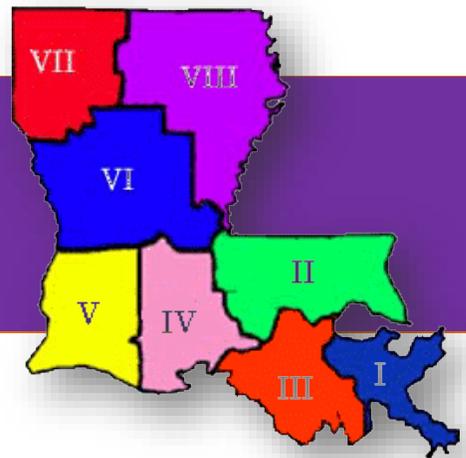


LSTA
NEWSLETTER

LASER



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LOUISIANA SCIENCE TEACHERS ASSOCIATION

Louisiana science educators dedicated to the advancement of scientific literacy at all levels,
and encouraging lifelong learning.



April 2019 | Louisiana Science
Teachers Association

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L O U I S I A N A S C I E N C E T E A C H E R S A S S O C I A T I O N

Louisiana science educators dedicated to the advancement of scientific literacy at all levels,
and encouraging lifelong learning.

President's Message from Patrice Mire

Hello Everyone!

SPRING IS HERE!! The birds are singing, the bees are buzzing, flowers are in bloom, and the weather has been fantastic! Mother Nature at her finest!! Before the busy "testing season" begins, take time to stop and smell the roses!

Representatives of the LSTA Board met on Saturday, April 6, 2019 to finalize the 2019 regional workshops. These workshops will focus on phenomena and ways to include it in your daily science lessons. These sessions will be free-of-charge for any LSTA member. If you are not a member, then your registration fee will be a discounted LSTA membership of \$10 which will expire at the 2019 Joint Math Science Conference November 4 – 5 in Baton Rouge. Your regional representatives will be sending emails with details. Also, check the [LSTA web site](#) and the [LSTA Facebook page](#) as we will post details as they become available for each region.

This year's joint LATM/LSTA Conference will be held at the Baton Rouge Convention Center November 4 – 5, 2019. Our conference committee members are in the preliminary stages of developing a high-quality professional development experience for the math and science teachers of Louisiana. This year's theme will be "**STEM**ulate Your Mind." With this in mind, it is now time to begin thinking about volunteering in some capacity for the conference. We are always looking for people to serve as presenters and/or presidors for both extended and concurrent sessions. Also, if you know of any businesses that would be willing to sponsor any part of the conference, please ask them to [contact me](#). Look for information on registration and hotel lodging in the next LASER.

Now is the time for science educators from around the state to play an important role in the future of science assessment in Louisiana. This is the first year that LEAP 2025 in science is operational in grades 3 – 8 and biology. Educator input is essential to the assessment development process to ensure that these assessments are fair, valid, with reliable metrics of student growth and achievement. In order to accomplish this task, LDOE is recruiting educators to serve on a variety of assessment development review committees. The roles of the science committees will include range-finding and standard setting. Committee members may review newly developed test items, provide guidance on scoring student responses to constructed-response and extended-response test items, and/or help determine cut scores. Members can see the mechanisms which ensure the development of high-quality assessments. Committee members will also confirm that tests are aligned to the Louisiana science standards, items are suitable for the grade or course, and appropriate for all Louisiana students. Additionally, the educators who do this work learn how to use assessments more effectively in their classrooms or school systems. Access the document titled "[Assessment Development Educator Review Committees](#)" in the [Assessment Guidance Library](#) to learn specific information about the committees, convening dates and locations, travel and reimbursement information, and how to apply to participate. I highly encourage teachers of science from across the state to apply.

Please take time to read through your newsletter. It contains plenty of information for educators (ex. awards, conferences, workshops, and other professional development opportunities) along with great opportunities for our students.

Yours in SCIENCE EDUCATION,



LATM/LSTA Math and Science Conference



LATM and LSTA presents

STEMulate Your Mind

November 4th and 5th 2019
Baton Rouge, La
Raising Cane's River Center

For more information, visit our websites:
www.lamath.org www.lsta.info

Call for Extended Seession Proposals

Interested presenters may submit a proposal for extended sessions (3-hour session) to be held on Monday November 4, 2019. Presenters must provide all equipment (computers, LCD panels, internet access, and other items) needed for their presentation.

To submit an online Extended Session proposal [Click Here](#)

Make sure proposals are submitted via this link by June 14, 2019. The conference program allows for each Extended Session or Field Trip to have a maximum of three names listed as the presenters: the Lead Presenter followed by, at most, two Co-Presenters. Co-Presenter information must be entered at the bottom of the form (see link above). The Presenter and Co-Presenter(s) listed in this proposal must register for the conference. Lead-Presenters can apply for [LATM Presenter Travel Grants](#). Questions or concerns regarding this process should be directed to Maribeth Holzer at latm.lsta.extsessions@gmail.com.



LATM/LSTA Math and Science Conference Sponcers

LATM and LSTA would like to thank McGraw Hill and Carilonia Biological Supply for their early conference sponsorship.



Louisiana Science and Engineering Fair Award Winners

The following students were selected to receive LSTA science fair awards at the state SEF. Awards and checks were hand-delivered on stage at the awards ceremony.

Junior Division

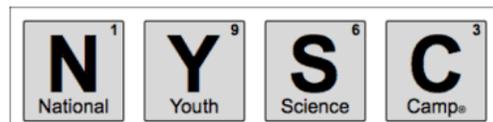
Emma K. Poche (1st Place,\$100)	Gramercy Elementary School
Breanna Pray (2nd Place,\$75)	Winnfield Middle School
Kynzli Jo A. Rivere (3rd Place,\$50)	Labadieville Middle School

Senior Division

Mary G. Salmon (1st Place,\$100)	St. Joseph`s Academy (SJA)
Selia E. Jindal (2nd Place,\$75)	Baton Rouge Magnet High School
Madison C. Henderson (3rd Place,\$50)	St. Joseph`s Academy (SJA)

National Youth Science Camp

The National Youth Science Camp (NYSCamp) is a residential science education program for young STEM enthusiasts the summer after they graduate from high school. Students from around the country (two are selected to represent each state and Washington, D.C.) are challenged academically in exciting lectures and hands-on studies, and have voluntary opportunities to participate in an outdoor adventure program, gain a new and deep appreciation for the great outdoors, and establish friendships that last a lifetime.



The following Louisiana students have been selected for the 2019 NYSC.

Benjamin Walker (446), Louisiana School for Math, Science and the Arts

Casey Tonnies (445), Louisiana School for Math, Science, and the Arts

Alternate: Kaili Taylor (432), Caddo Parish Magnet High School

Shell Science Lab Regional Challenge Announces 2019 Grand Prize Winners

[Shell Oil Company](#) and the [National Science Teachers Association](#) (NSTA) today announced the grand prize winners in the [Shell Science Lab Regional Challenge](#). The competition encouraged K-12 teachers who have found innovative ways to deliver quality lab experiences with limited school and laboratory resources, to share their approaches for a chance to win a school science lab makeover support package.

“The science resources provide students access to safe lab equipment to support their inquisitive interests. Encouraging students to ask questions, explore, construct, test and interpret observations are important skills that may lead to them pursuing science disciplines,” said Dr. Frazier Wilson, Vice President Shell Oil Company Foundation and Director, Workforce Development Diversity Outreach. “The Shell Science Lab Regional Challenge equips schools labs to increase quality educational outcomes, especially for science teachers who create innovative experiences for students despite limited lab environments.”

To enter the Shell Science Lab Regional Challenge, K-12 science teachers located in [select school districts near Shell assets](#) were asked to describe their school’s current laboratory resources, explain why laboratory upgrade support is needed, and describe their approach to science education instruction utilizing their school’s current lab facilities. A panel of science educators then reviewed and selected the top entries.

“We take tremendous pride in these educators who are at the forefront of developing innovative science instruction that is transforming the learning environment and enabling their students to receive the high quality lab experiences they deserve,” said Dr. David Evans, Executive Director, NSTA. “Congratulations to the grand prize winners for their hard work, resourcefulness, and commitment to their students.”

Middle School Level: Dawn Sevin, Lacache Middle School, Chauvin, Louisiana

Dawn Sevin’s students not only do science, but are also actively engaged in STEM concepts and activities. Her students build remotely operated vehicles (ROVs) and test them, make modifications, and retest them at the local marine research facility. This activity is real-world because students live near the water—there is increasing concern over water quality and land loss along with the career opportunities in the area that relate to oceanography and exploration.

High School Level: Jaimie McQuarn, East Ascension High School, Gonzales, Louisiana

The philosophy of Jaimie McQuarn’s science department is that students learn best by engaging in inquiry and experimentation, rather than lecture and rote memorization. To improve her science lab, McQuarn used award funds to buy a set of digital microscopes and Carolina Inquiry kits. With the microscopes, students were motivated and engaged in several activities and participated in tactile and visual learning. Environmental science students also explored weathering and permeability with the use of a Carolina Inquiry kit. The Carolina Inquiry kits provide engaging lessons that can easily be connected to literacy, allowing students to become immersed in real-world science.

In addition to the school science lab makeover support package—valued at \$10,000 (for the elementary and middle level winners) and \$15,000 (for the high school level winner)—each grand prize winning teacher received an additional \$5,000 of support to attend the [NSTA National Conference on Science Education in St. Louis, Missouri](#), April 11-14, 2019. The three grand prize winners and their principals will be honored at the Shell reception and Teachers Awards Gala, taking place during the conference.



LSTA Needs You!

Call for Nominations for LSTA Board Positions

Do you want to become more involved in science education in Louisiana? Do you enjoy sharing your expertise with others? Are you ready to take a step into a leadership role? The Louisiana Science Teachers Association (LSTA) needs you!

Nominations are now open for the next two-year term of office, November 2019-December 2021, for the following positions:

- President
- Vice-President
- Secretary
- Region 1 Representative
- Region 2 Representative
- Region 3 Representative
- Region 4 Representative
- Region 5 Representative
- Region 6 Representative
- Region 7 Representative
- Region 8 Representative
-

The LSTA Board typically meets four times each year either face-to-face or electronically. Duties of officers and regional representatives include attending board meetings, participating in various board projects including regional workshops, nominating and supporting colleagues for awards, and working at the annual conference. Regional representatives have the opportunity to serve their regions by informing members about opportunities in science education, sharing local science news for publication in each issue of the LASER, and facilitating regional workshops. Persons applying for the office of LSTA President are required to have previous Board experience.

Nomination packets should include the following:

- letter with a statement from the nominee accepting the nomination, the reason the nominee is interested in serving as an LSTA officer, what experience and knowledge the nominee would bring to the office, and how the nominee envisions the role of LSTA in science education;
- resume which includes but is not limited to teaching experience and current position; and
- maximum of three letters of support (not to exceed one page each);
- President, Vice President, Secretary positions only:
 - brief bio (100 words or less) explaining how they can benefit science educators as a leader of LSTA
 - Photograph is preferred

Nomination packets should be sent to:

Terrebonne Parish School Board

Attn: Nathan Cotten

P.O. Box 5097

Houma, LA 70361

Electronic copies should be sent to: nathancotten@tpsd.org.

All nomination packets must be postmarked on or before Saturday, August 24, 2019.

All electronic packets must be received by midnight Saturday, August 24, 2019.

Nominees will receive acknowledgment of receipt of their nomination. The nominating committee, chaired by LSTA Past-President, Nathan Cotten, will select two nominees per office for the final ballot. Ballots will be distributed to active LSTA members in September. Election results will be announced at the 2019 LSTA Awards Event in Baton Rouge and officers will immediately assume their positions.

Regional News

✦ Region I ✦

Middle school science teachers in the metro New Orleans Shell Middle School Science Collaborative completed a four day training on the Sound Module.

Brenda Nixon facilitated the training assisted by **Wendy DeMers** and **Jean May-Brett**. The teachers are from schools in Orleans, Jefferson, and Plaquemines Parishes. Partners in the Shell Oil Company effort include the Greater New Orleans Collaborative of Charter Schools and the LSU Cain Center. On February 16 the Louisiana Environmental Education Commission (LEEC)



hosted a series of short courses around the state focused on the theme "*Taking Environmental Action: What's Great About Your Part of the State?*" Four New Orleans area formal and non-formal educators attended *Citizen Science in Education* presented by **Kimberly Cooke** and **Kali Bunn** at Jean Lafitte National Historical Park and Preserve. Activities included water quality testing and dip netting, soil testing and aerial mapping. Teachers who are interested in learning about school programs, outreach, and teacher workshops at Jean Lafitte National Historic Preserve should contact **Kimberly Cooke** at

kimberly_cooke@partner.nps.gov

At the Audubon Aquarium of the Americas, **Monica Pasos** and **Brenda Walkenhorst** hosted seven educators at their *Teach Wild: A Lesson on Marine Debris* workshop. Attendees learned about land-based marine debris education programs offered through Audubon Nature Institute's school field trips as well as resources teachers can use back in the classroom. They also experienced the outstanding [Washed Ashore](#) marine debris art exhibited at the aquarium.

On March 19, educators from Jefferson, Orleans, Plaquemines, St. Bernard, St. Charles, St. Tammany, Terrebonne, and Private/Parochial schools were honored by the American Petroleum Institute Delta Chapter. Receiving the Distinguished Teacher Award were

Margery Olinde (Orleans), **Melissa Rhodes** (Plaquemines), **Chris Dier** (St. Bernard), **Stephanie Gullage** (St. Charles), **Molly Graham** (St. Tammany), and **Sarah Bergeron** (Private/Parochial). Receiving the Chairman's Award winners were **Jessica Schwalb** (Jefferson), **Jennifer Deblieux** (Orleans), **Casey McMann** (Plaquemines), **Erin Johnston** (St. Bernard), **Hope Barnhill** (St. Charles), **Lauren Bethancourt** (St. Tammany), **Kristal Eimer** (Terrebonne), and **Kathleen Gosciniak** (Private/Parochial).



Louisiana Science Teachers Association Newsletter (www.lsta.info)

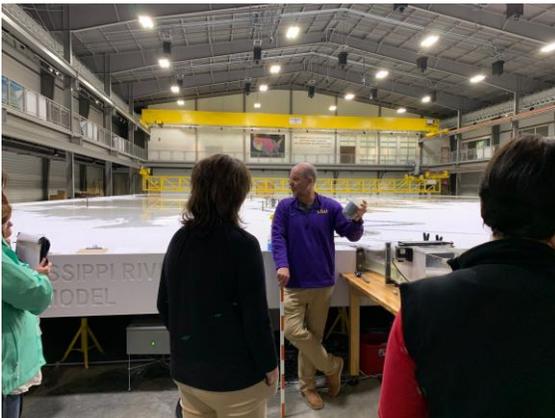
Congratulations to the following schools' robotics teams for competing in the 2019 FIRST robotics Regional Competition: Academy of Our Lady, Ben Franklin HS, Kenner Discovery, Lusher Charter, McMann, NO Math Sci High, Warren Easton. **Jean May-Brett** served as a mentor during the National Academies of Science, Engineering and Medicine (NASEM) recent meeting of grantees through the Thriving Communities Grants of the Gulf Research Program (GRP). Jean is a member of the NASEM GRP Advisory Board. The meeting brought together representatives from "projects and activities that enable people and coastal communities to successfully prepare for, respond, and adapt to stressors and adverse events".



Please submit news for Region 1 to **Casey McMann** at cmcmann@ppsb.org.

✦ **Region II** ✦

On February 16, the **Louisiana Environmental Education Commission** held a series of short courses around the state, including one in the LSTA region II you represent. Sixteen Baton Rouge area formal and non-formal educators joined **Steve Babcock** of the LSU Lab School and **Dr. Clint Wilson** of the LSU Center for River Studies. The workshop, titled **LSU Center for River Studies and Your Classroom** featured a tour of the state-of-the-art LSU Center for River Studies facility, including a 10,000 square foot scale model of the lower Mississippi River. Educators viewed illustrations and interactive features that help visualize and communicate the importance of the Mississippi River Delta, the ongoing coastal land-loss crisis, and CPRA's comprehensive Coastal Master Plan restoration and risk reduction program. Finally, facilitators demonstrated how to use the model as an anchoring phenomenon and in the development of storylines integrated with hands-on 4H Youth Wetland Program lessons linked to the model



Twenty-eight states submitted 58 nominees to **U.S. Department of Education Green Ribbon Schools (ED-GRS)** by the Feb. 15 deadline. **Brookstown Middle School** in East Baton Rouge Parish received a nomination. The 2019 federal review is underway. ED will announce the 2019 cohort in the spring, notifying honorees via email. The institutions' names will appear on the ED website and in a press release. Honored institutions will be invited to send representatives to a fall recognition ceremony in Washington, D.C.

Louisiana Science Teachers Association Newsletter (www.lsta.info)



The **Bayou Regional Competition for FIRST Robotics** was held on March 23, 2019 at the Pontchartrain Center in Kenner, Louisiana. There was a total of 59 teams competing, including US teams from Louisiana, Mississippi, Arkansas, Florida, Iowa and South Carolina! There were also teams from the Netherlands and Turkey that competed. **Zachary High School** ranked #1 in defense, #7 in total contribution and were supported by industry mentors from Dow, Entergy, and LSU's School of Engineering's Society of Peer Mentors. Laitram and Dow were the primary sponsors for ZHS and they also received support from Bank of Zachary and Walk-Ons. **Lisa Williams** is the primary coach. **Kyle Melancon** and **Maree Funk** are assistant coaches.



Please submit news to your region 2 representative, **Bianca Deliberto** at bianca.deliberto@zacharyschools.org.

✦ Region III ✦

9th Grade students in **Wendy Delgado's** class at Houma Christian School in Houma took a trip to the Louisiana Arts & Science Museum where they built robots and learned the importance of robotics in our changing world. Students were challenged to build a robot that could carry a plate using certain parameters and constraints. Once built, students raced their robots to the finish line. Wendy's students also attended the Laser Interferometer Gravitational wave observatory (LIGO) in Livingston, LA where they built pinhole viewers as part of a classroom activity and enjoyed time in the Exhibit Hall.



Louisiana Science Teachers Association Newsletter (www.lsta.info)

The Louisiana Science and Engineering Fair was held at LSU March 18-20, 2019. The results for Terrebonne Parish are below.

Senior Division

Place	Category	Student	School	Project Title
HM	Animal Sciences	Lauren Boudreaux	Terrebonne High School	"Daphnia Diagnosis"
1 st	Engineering Mechanics	Maxwell Eschete	Terrebonne High School	"No Signal"
4 th	Physics & Astronomy	Craig Colville	Terrebonne High School	"Effects of Changing Momentum on a Magnetic Linear Accelerator"

Junior Division

Place	Category	Student	School	Project Title
2 nd	Microbiology	Jesus V. Diaz	Houma Christian School	"What Type of Sponge Retains the Most Bacteria?"

Special Awards

Award	Name	School
American Society of Civil Engineers (ASCE) Transportation & Development Institute (T &DI)	Tara Bardarson, 2 nd Place, \$100.00	Houma Christian School

AP Environmental Science students from **Adrianna Adam's** Class at South Terrebonne High School worked with 6th grade Lacahe students at the Wetlands Center to help them understand invasive species, salt water intrusion and other factors affecting our coast.



BTNEP has created lesson plans on Marine Debris and microplastics as well as a lesson plan to accompany their giant floor map of Louisiana. Lesson plans can be accessed at the following

website- <https://education.btnep.org/2019/02/06/marine-debris/>. If you have any questions, contact **Alma Robichaux**, Education/Outreach Coordinator, BTNEP at Alma@btnep.org or call at (985) 447-0868.

4th, 5th, and 6th grade students and their families were participated in Family Science Night at Pierre Part Elementary School. There were stations where students built catapults, raced paper planes, competed in a cup tower challenge and watched/participated in a demonstration on real and virtual images, convex and concave mirrors and electricity. All students and their families had a great time!

Please submit news for Region 3 to **Tammy Brouillette** at tammybrouillette@tpsd.org.

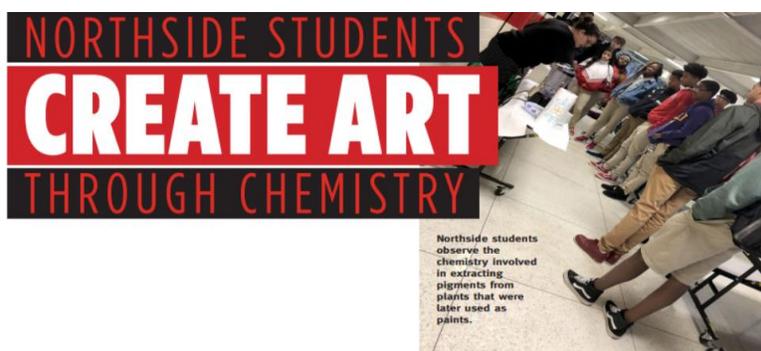


✦ Region IV ✦

Exploring By the Seat of Your Pants is a program sponsored by National Geographic Society. This program allows classrooms to connect with scientists and explorers from around the world via Google Hangouts. Fifth grade students from Milton Elementary Middle School in Lafayette Parish participated in hangout sessions in the library with archaeologists **Chichen Itza**, a biologist studying bees in Louisiana, and an explorer named **Ollie Hunter Smart**. The program is free and available to all educators. Teachers can view the calendar of events and submit a Google Form request for a Hangout spot on the Exploring By the Seat of Your Pants website: <http://www.exploringbytheseat.com>



Vermilionville partnered with Northside's Art and Chemistry teachers to conduct a Color and Test of Nature Workshop. Using chemistry, students extracted pigment from plants and used them to paint.



JH Williams Middle is in Abbeville. They have a growing STEM department that has been at work for the last 4 years to get students more involved in the 4 areas of STEM- science, technology, engineering, and math. Through fundraising and generous donations from Dow Chemical, they have been able to purchase 3 of the LEGO brand EV3 robotics kits. They use them in multiple STEM elective classes and use them for other students who do not take the STEM elective class through events like Robotics Day. For Robotics Day this year, all JH Williams students were invited to come and work with the robots. Robotics requires hard work and determination to manually program the robots to complete a task. The students loved it so much! Sponsors for the program are **Marlie Hebert**, **Jessica Touchet** and **Jerica Broussard**. This program was also featured on KATC TV 3 as one of Acadiana's "Cool Schools."



Students from Rene Rost Middle School in Kaplan competed and placed in the regional Future City competition. The winner of the 2018-2019 regional competition for Louisiana is the team Lueurviant. The official team consisted of **Dina Abshire** (teacher), **Tani M. Romero** (teacher), Jasmine Fruge, Rocky Dufort, and Cameron Laszlo.

Please submit news for Region 4 to **Breyone Carter** at bscarter@lpssonline.com.

✦ Region V ✦



Congratulations to Sam Houston High School in Moss Bluff. Their FFA team placed 2nd in Electricity, Floriculture, and Vet Science. All are advancing to state level competition.

E.K. Key Elementary students enjoy a trip to the Moon! First and fourth grade students joined together to explore STARLAB, wear space gloves while manipulating space candy, making craters, creating their own space food.



The Calcasieu Parish School Board is excited to announce the continuation of the CITGO Innovation Academy at the middle school level for the 2019-2020 school year. The CITGO Innovation Academy at LeBlanc Middle School will welcome sixth graders beginning this fall. The CITGO Innovation Academy at E.K. Key Elementary School is already building the foundation for future success with a STEM integrated curriculum. This hands-on learning, development of problem-solving skills using scientific inquiry, and collaboration with others through the implementation of engineering design process will be mirrored with the incoming Academy students at LeBlanc Middle.



Please submit news for Region 5 to **Darrell McDaniel** at darrell.mcdaniel@cpsb.org.

✦ Region VI ✦



Fourth grade teacher, **Maggi Pepiton**, recently had her classroom come to life. She has acquired a number of class pets that help her teach science and math standards. From structures of organisms to measuring and graphing, students are learning using living things in the classroom. Students are excited and eager to come to the class each day and interact with the pets. The pets include a salamander, guinea pig, and turtle. She has noticed that students have developed a greater sense of responsibility since they have gotten the classroom pets. Some students even bring worms to school that they have gotten from their yard to feed Fernando, an axolotl salamander she has received from a Pets in the Classroom Grant. She has noticed a more enthusiastic learning atmosphere since she has introduced the pets into the classroom. In addition to animals she is also using plants to help teach science. She has an indoor planter in her classroom with grow lights. She has received this vertical garden using a QSM grant. Students monitor and



graph the growth of these plants daily. The garden will eventually produce vegetables that could be used to help feed some of the class's pets. Through living organisms, **Ms. Pepiton** has found a way to grow her students' knowledge, responsibility, and excitement.

Louisiana Science Teachers Association Newsletter (www.lsta.info)

The Alexandria Zoo has "Bio Bags" for rent. Each customized bio bag backpack includes durable artifacts, program curriculum geared to Louisiana science standards, and conservation actions to connect your students with the world's wildlife. There are three different programs to choose from. They can be rented at no cost to the educator and require a \$25 security deposit that will be returned to the educator once the bag is returned. For more information about the bio bag and other available resources please <http://thealexandriazoo.com/EducatorResources.html>. If you wish to visit their outdoor classroom for a field trip, please visit <http://thealexandriazoo.com/FieldTrips.html>.

Please submit news for Region 6 to **Pierre LaCaze** at pierre.lacaze@rpsb.us.

✦Region VII ✦

The Louisiana State Science and Engineering Fair was held Saturday, March 18-20 in Baton Rouge. Students competed in school and regional completions to reach the state level. Two students from Caddo Parish, Nikita A. Takalkar from Caddo Middle Magnet and Ashini Modi from Caddo Magnet High School, were awarded the top honor of overall winners of their division for the entire state. Congratulations to all students who participated in science fair on the school, regional, and state level.



Elementary, middle, and high school teams participated in the 2018-2019 Regional Autonomous Robotics Circuit (RARC) competition 2 Saturday, February 9, 2019. Elementary, middle, and high school teams from public and private schools and afterschool organizations in Bossier, Caddo, Sabine, and Webster Parishes participated in the Competition at the Bossier Civic Center. RARC, a series of three cyber and science, technology, engineering, and mathematics (STEM) competitions for students in grades 3-12, is now in its eight year. This year's theme, *Marine Discovery*, allows teams to explore fields like marine biology, biomimicry, mineralogy, and ichthyology while programming their robots to autonomously accomplish several tasks.

Throughout Competition 2, teams accumulated points based on their performance and were ranked accordingly. In the elementary division, South Highlands Elementary swept the category with South Highlands Team 5, South Highlands Team 2, and South Highlands Team 4 winning first, second, and third place, respectively. Webster Team 4 triumphed in the middle school division and was awarded first place. Webster Team 7 won second place, and Greenacres Team 4 was named the third place winner. In the high school division, Airline Team 1 emerged as the first place winner followed by Cope Team 1 in second place and Cope Team 2 in third place.

When what you need to teach is unavailable, you engineer! That was the philosophy of 5th grade Apollo Elementary School science teacher, **Krystal Nuss**. **Mrs. Nuss** desperately was trying to locate a Starlab Portable Planetarium in the local area with no success. **Mrs. Nuss** wanted to give a real experience to her students in displaying patterns and seasonal appearances of stars in the night sky. So she took matters into her own hands. **Mrs. Nuss** engineered her own planetarium from household items and projected constellations, stars and planets for her 5th grade students. Nothing will stop the science lessons and learning at Apollo Elementary School! Way to go **Mrs. Nuss!**



Please submit news for Region 7 to **Jeff Holcomb** at jeffreygholcomb@gmail.com.

✦ Region VIII ✦

Cathi Cox-Boniol and **Missy Wooley** (both Lincoln Parish Schools) joined **Chris Campbell** and **Diane Madden** (both LA Tech SciTEC) and **Garrah Leshe** and **Marci Bryant** (both Ouachita Parish Schools) in presenting a two-day professional development experience focused on the newly released OpenSciEd units for middle school. More than 35 teachers from Lincoln, Monroe City, and Ouachita gathered in Monroe to explore the forces and weather units to conclude the MSP project that began last summer. Cathi and Missy lead professional development for Lincoln Parish middle school teachers as the team developed assessments and worked on scope and sequence elements for the remainder of the year.



Congratulations to **Sarah Wages** (Ruston Junior High) for being the recipient of the Superintendent's Spotlight on Success Award for December/January. Nominated by her principal, Sarah was surprised with the honor during an expected presentation in her classroom by Superintendent Mike Milstead. In addition, Sarah received a nomination for the Presidential Award for Excellence in Mathematics and Science.



Cathi and Missy teamed up to host the Lincoln Parish *You Be the Chemist* Challenge at Louisiana Tech University. **Dr. Bill Deese** (Louisiana Tech University Chemistry) started the day with an exciting demonstration show and **Chris Campbell** (Louisiana Tech University SciTEC) ended the day by hosting the students at the Lambright Sports and Wellness Center for thrilling activities that allowed the students to blow off some steam after their intense challenge. Science teachers **Denise Baugh** (Choudrant Elementary School), **Jeff Nugent** (Choudrant High School), **Amy Pickett** (Cypress Springs Elementary School), **Kristi Bourgeois** (Ruston Junior High School), and **Sara Johnston** (Simsboro High School) chaperoned the students. Top honors went to Grand Champion Joshua Thorson (Ruston Junior High School), 1st Runner-Up Abigail Frazier (Choudrant Elementary School), 2nd Runner-Up Rosie Shultz (Ruston High School), 3rd Runner-Up Kassandra Peterson (Ruston Junior High School), and 4th Runner-Up Kade Waterman (Choudrant High School).



Cathi and Missy attended the CUE Conference in Palm Springs, CA, where they also made a site visit to the STEM Center USA facility. They also began a new quarter teaching Elementary Science Methods for Louisiana

Tech University's College of Education where Cathi was also recognized in the Alumni Spotlight.



Please submit news to your region 8 representative, **Laura Malone** at lauramalone@opsb.net

Professional Development Opportunities and Resources

Science Leaders' Corner

Louisiana Association of Science Leaders (LASL)

Are you a district science supervisor, science content specialist, school master teacher, Teacher Leader or science coach? If so consider becoming a member of LASL.

Based on the Frameworks for K-12 Science Education and the LSSS the way science educators approach the teaching and learning process and the use of tools and resources to improve science teaching and learning has shifted. To share important resources LASL will be providing a Science Leader Column in the LASER. In this issue LASL connects science leaders to three recently released rich science resources.

Resisting Scientific Misinformation: Prepare your students to resist fake science. Developed by science educators and PBS NOVA staff at WGBH-TV, this one-week science unit teaches students how to evaluate scientific information and distinguish facts from "fake" science.

Why? Because these days evidence-based reasoning seems under assault. "Climate change is a hoax," "Next month Mars will look almost as large as the full moon," "Babies who listen to our recordings develop higher IQs." Social media spreads misinformation widely and rapidly. Teachers need to help students examine claims that seem to be based on science but often are not. These classroom-tested materials—a Teacher Guide and four short videos—make it easy. <https://tumblehomebooks.org/services/resisting-scientific-misinformation/>

Achieve's Tap in TAPS

The Task Annotation Project in Science (TAPS) was launched by Achieve to answer the questions "What does it look like to ask students to demonstrate progress toward three-dimensional standards?" and "What are the most important features of high-quality science tasks?" The suite of free resources includes annotated examples of assessment tasks for elementary, middle, and high school as well as a series of short resources that highlight the major takeaways across the whole project.

<https://www.achieve.org/our-initiatives/equip/tools-subject/science/task-annotation-project-science>

Advancing Coherent and Equitable Systems of Science Education (ACESSE) [Learning to See the Resources Students Bring to Sensemaking](#). This Open Educational Resource professional development module engages participants in understanding and appreciating the diversity of ways in which students make sense of phenomena. More on the Advancing Coherent and Equitable Systems of Science Education (ACESSE) project http://cosss.org/ACESSE_Resources

To receive notification of the upcoming LASL workshop and more information on the association contact **Julie' DuBois** at judubois@iberia.k12.la.us.



BASF and Louisiana Art & Science Museum Enter Ninth Year of Kids' Lab Partnership



For the ninth year, BASF and the [LASM](http://www.lasm.org) will create chemistry by offering BASF Kids' Lab workshops to area schools and the public. As in previous years, support of LASM is part of the company's ongoing effort to promote and enhance science, technology, engineering, and math (STEM) education and encourage children to explore the connections between chemistry and the world around them.

The Kids' Lab program is open for children ages 6 – 12 and their accompanying adults on the second and fourth weekends of every month. Program topics change monthly and range from DNA extraction in "Chemistry is Bananas!" to creating slime with "Playful Polymers."

"Kids always seem to have a sense of wonder," said Chris Witte, BASF Senior Vice President. "BASF Kids' Lab is about encouraging students to enjoy and pursue their interests in science and explore career possibilities in the field."

In addition to the Kids' Lab workshops, BASF sponsored more than 400 hours of pop-up programming at LASM in 2018 along with providing free admission to 875 visitors during Free First Sunday in October.

Since 2011, approximately 14,500 fourth graders, nearly 1,000 teachers and more than 2,600 adult chaperones from Ascension and East Baton Rouge Parish schools have participated in Kids' Lab at LASM. In addition, over 11,500 weekend visitors have enjoyed these BASF workshops and interactive demonstrations.

More information on BASF Kids' Lab at LASM is available at www.lasm.org.

Framework for Leading NGSS Implementation

An excellent resource for districts, is available at <https://www.wested.org/wp-content/uploads/2017/10/Framework-for-Leading-NGSS-Implementation.pdf>

Free NGSS-Designed Curriculum Available!

[SCALE Science Website is Live](#)

Teacher Institute for Evolutionary Science (TIES)

The purpose of the Teacher Institute for Evolutionary Science (TIES) is to familiarize interested science teachers with the concepts of natural selection, common ancestry, and diversity in order for them to confidently cover the topics in their classrooms and fulfill their curriculum requirements. TIES introduces teachers to the most important points of evolution and natural selection with a focus on the amazing advances of genetics. The success of TIES depends upon providing ready-to-use resources that teachers can begin to use immediately. Participating teachers or student teachers leave our workshops with presentation slides, labs, guided reading assignments, an exam, and a valuable resource list for their lesson plans.

TIES is funded by the Richard Dawkins Foundation for Reason and Science which is a subsidiary of the Center for Inquiry. School Districts wanting to in-service or provide professional development for their teachers can contact me to

Louisiana Science Teachers Association Newsletter (www.lsta.info)

set up a workshop. The full workshop usually runs about 3 hours and includes content knowledge presentation on genetics and evolution, lab simulation and explanations and a walk through of the web page where they can access lots of free, high quality information, presentations, tests, labs, and activities. Here is a link to the website for your perusal: <https://richarddawkins.net/ties/>

If you are interested in becoming a member of this amazing Professional Learning Community as a teacher or scientist, please take a minute to sign up on the website. If you don't want to participate, you can still feel free to take what resources you want and use them in your classroom. Everything that we have is FREE!

You can also follow us on Facebook @RDFRSTIES and Twitter @rdfrsTIES. The links are also on our website.

LSU's Chem Demo Program

The link below is about LSU's Chem Demo Program a science roadshow run by LSU

<https://cen.acs.org/articles/96/i17/Louisiana-State-Universitys-ChemDemo-program.html>

Assessment Literacy Modules

Here is a newly developed assessment literacy digital workbook that some may be interested in taking a look at...

<http://www.scillsspartners.org/scillss-resources/>

One needs to scroll about 3/4 the way down the page to find...

Digital Workbook on Educational Assessment Design and Evaluation: Creating and Evaluating Effective Educational Assessments

Chapter 1: Purposes and Uses of Assessment Scores, Validity, Validity Questions ([Adobe Connect Digital Workbook](#), [PPT](#), [Script](#), [MP3](#))

- Chapter 1.1 Assessment Purposes and Uses
- Chapter 1.2 Validity as the Key Principle of Assessment Quality
- Chapter 1.3 Four Validity Questions to Guide Assessment Development and Evaluation
- Chapter 1.4 Summary and Next Steps

Chapter 2: Construct Coherence ([Adobe Connect Digital Workbook](#), [PPT](#), [Script](#), [MP3](#))

- Chapter 2.1 Review of Key Concepts from Chapter 1
- Chapter 2.2 The Concept of Construct Coherence

Chapter 3: Comparability ([Adobe Connect Digital Workbook](#), [PPT](#), [Script](#), [MP3](#))

- Chapter 3.1 Review of Key Concepts from Chapters 1 and 2
- Chapter 3.2 What is Comparability and Why is it Important?
- Chapter 3.3 What is Reliability/Precision and Why is it Important?
- Chapter 3.4 Validity Questions Related to Comparability and Reliability/Precision

National Geographic Online Educator Certification

Registration for the online Educator Certification program is live. [Click here to sign up for the fall cohort](#). Participants will complete all three phases of Educator Certification online.

The Satellites and Weather Teaching Box

This collection of educational resources is designed to help middle school students learn how satellites “see” the atmosphere and how they help with weather forecasting. Resources in the [teaching box](#) are sequenced to help build student understanding, align with Next Generation Science Standards, and have been reviewed by our team of educators. The [Satellites and Weather Teaching Box](#) is made possible thanks to support from [COSMIC](#) and [NOAA](#).

[UCAR Teaching Boxes](#) are collections of classroom-ready and standards-aligned activities, content, and multimedia that build student understanding of science, technology, engineering, and math. All materials are freely available online.

NEW: Screening Tools for 3D Science Assessment Tasks



As the science education community focuses on how to assess student learning under new science standards, the question of how to determine the quality of potential assessment tasks arises time and again. Today, Achieve is excited to release [two new tools](#) intended to assist educators in evaluating science assessment tasks to determine whether they are designed for three-dimensional science standards based on the *Framework for K-12 Science Education*, such as the Next Generation Science Standards.

The [Science Task Prescreen](#) is used to conduct a quick review of assessment tasks to identify any "red flags" - challenges commonly found in science assessment tasks - and determine whether a task is worth a more rigorous evaluation.



The [Science Task Screener](#) is used to take a deeper dive into evaluating science assessment tasks. The Screener is organized around four key criteria, each with a set of indicators to help reviewers determine whether the criteria are met and a set of response forms for gathering and analyzing evidence, providing suggestions for improvement, and rating the task. The Screener builds off the criteria in the [EQuIP Rubric for Science](#) by more clearly specifying features for the assessment tasks embedded in lessons and units.

If you have questions or are interested in professional development opportunities related to evaluating science assessment tasks, please contact ngss@achieve.org. You can also learn more about the broader science professional learning services that Achieve offers, including support for science tasks, [here](#).



Miami University's Project Dragonfly

Miami University's Project Dragonfly is accepting applications for 2019 Earth Expeditions graduate courses that offer extraordinary experiences in 16 countries throughout the world. <http://EarthExpeditions.MiamiOH.edu>

Earth Expeditions can build toward the Global Field Program (GFP), a master's degree that combines summer field courses worldwide with web learning communities so that students can complete the GFP master's part-time from anywhere in the United States or abroad. <http://GFP.MiamiOH.edu>

Project Dragonfly also offers the Advanced Inquiry Program (AIP) master's degree that combines web instruction from Miami University with experiential learning and field study through several AIP Master Institutions in the U.S. Applications for Miami's 2019 cohorts are being accepted now with place-based experiences provided at zoos in Chicago, Cincinnati, Cleveland, Denver, New York, San Diego, Seattle, and our newest affiliate learning institution, St. Louis. <http://AIP.MiamiOH.edu>

Graduate tuition for all programs is greatly reduced because of support from Miami University.

American Geosciences Institute

It is my pleasure to invite you to assist us in recruiting teachers for the 11th **American Geosciences Institute (AGI)/ExxonMobil Exploration Teacher Leadership Academies**, which will be held **July 7-12, 2019**. Each year teachers meet in Houston for week-long academies at which they learn Earth science content, explore hands-on STEM activities, and gain real-world science experiences. This academy prepares teachers with geoscience teaching techniques, resources, and tools that they can share with their colleagues and students.

Funding from ExxonMobil and AGI covers academy-related costs for the teachers, including travel within the U.S. to Houston, meals, lodging, and educational materials. Participants have opportunities to interact with their peers from other locations, gain skills and knowledge for teaching Earth and space science, and develop plans for presenting effective teacher workshops.

We welcome applicants from all states and school systems serving U.S. students, including those that are part of the DoDEA network and U.S. territories. **Teachers are encouraged to come as a team of two to four, from one grade level or several across the K-8 range**, so that they can continue to support each other when they return to their local setting. Academy participants will be expected to lead one or more post-academy experience, which can be a workshop, conference presentation, or other professional learning events. We ask that all academy participants share what they learned, help spread geoscience awareness, and apply what they learned to their own students.

We encourage science supervisors, principals, science coaches, and other administrators to nominate teachers for the academy. We recommend that you nominate teachers before April because that is when the application review process starts. Nominated teachers will then receive more information about how to apply. The application process is competitive and we anticipate having space for up to 30 teachers, and we will continue to accept applications until the academy is full.



4220 King Street
Alexandria, VA 22302-1507
+1 703-379-2480; Fax: 703-379-7563
www.americangeosciences.org

Louisiana Environmental Education Commission

The LEEC is also conducting a student art and language arts contest. The 2019 LEEC Student Environmental Awareness Art and Language Arts Contest will feature the theme "Taking Environmental Action: What's Great About Your Part of the State?" The deadline for the contest is Friday, April 19, 2019. For more information and official contest rules, please visit <http://www.wlf.louisiana.gov/artcontest>.

Summer Teacher Session at WWII Museum

Rob's Summer Teacher Session at WWII Museum

Applications are now being accepted for the 2019 Cohort of the Real World Science Summer Teacher Seminar at The National WWII Museum.

28 teachers of 5th-8th grade science will be chosen to participate in this professional learning experience. (Two spots are reserved for teachers from Louisiana). The cohort will come to the museum in New Orleans from July 14th-20th 2019, and will conduct a short workshop of their own for colleagues in their area in the following school year. Each cohort member will receive a copy of the curriculum, and other books and supplies to implement the curriculum. A copy of the curriculum book for each participant will be provided and shipped to the training workshops conducted by the cohort members.

The onsite training integrates best practices in science and literacy education with implementation of the curriculum. The curriculum uses hands-on activities and stories from WWII to teach science and engineering concepts and practices. Cohort members see all parts of the museum, including a behind-the-scenes look at artifacts, and a visit to the restored PT-305, as well as a trip the nearby Laser Interferometer Gravitational Observatory.

Please apply, and pass the word on to your colleagues.

<https://www.nationalww2museum.org/realworldscience>

Educational Facility Planning

The MSBA recognizes the importance of educational programming, especially as it relates to the effective planning, design, and construction of adaptable school facilities. A comprehensive educational program will help inform school designs that are responsive to current teaching and learning practices, while providing flexibility to accommodate future changes in learning environments and educational delivery methods during the useful life of a school facility. To support districts and consultants in the exploration, development, and evaluation of options for proposed projects, the MSBA offers the following resources.

[Educational Program Requirements](#)

[Science Laboratories and STE Learning Spaces Guidelines - NEW!](#)

[Assembly Space Adjacencies in Elementary and Middle Schools](#)

[Break-Out Spaces in Elementary Schools](#)



FREE Engineering Professional Development this Summer for Middle and High School Teachers



FREE ENGINEERING PD FOR 6-12 TEACHERS

AN ASM MATERIALS EXPERIENCE

UNIVERSITY OF NEW ORLEANS
NEW ORLEANS, LA | JUNE 24-28, 2019

AN ENGINEERING BOOT CAMP FOR TEACHERS

Engage with science and engineering practices of NGSS through real-world applications of engineering and hands-on activities you can incorporate in your classroom.

Excellent opportunity to meet volunteers from industry and build connections to benefit your students.

WHO SHOULD ATTEND?

- Middle school and high school teachers with an interest in science, engineering, and industrial/career and technical education.
- Pre-service science teachers

WHY ATTEND?

- Engage in hands-on, low-cost activities that you can integrate into your classroom immediately.
- Help your students discover career opportunities in science and engineering, and meet practicing engineers.
- Strong connection to NGSS.

WHAT'S INCLUDED?

- 4 CEUs (40 hours), demonstration materials and meals.

GRADUATE CREDITS AVAILABLE!

- Two (2) graduate credits available (at participant's expense) through the University of Missouri-Kansas City at \$250. (This is optional.)

"Gave me the background information to better understand how materials are beneficial and why they are important. I'm also more confident in teaching about materials in the middle school setting."

"I felt so excited about what I was learning I started planning lessons for next year! I went to the \$1 store and purchased the items for determining growth and mass."

REGISTER NOW! [SURVEYMONKEY.COM/R/JMM9GKH](https://www.surveymonkey.com/r/JMM9GKH)

QUESTIONS?

Jeane Deatherage, Administrator of Foundation Programs
jeane.deatherage@asminternational.org | 800 336 5152, ext. 5433.



MATERIALS CAMP®
ASM MATERIALS EDUCATION FOUNDATION

Stennis 2019 ASTRO CAMP®



**GET READY TO HOST
ASTRO CAMP® AT YOUR SITE!**

NASA SSC ASTRO CAMP® is an opportunity for Youth Service Organizations to bring NASA STEM engagement activities to 2nd -- 12th graders in MS, LA, TX, & AL. SSCASTRO CAMP professional developments for educators, leaders, and facilitators use the uniquely developed 2019 ASTRO CAMP Program / Facilitator's Guide for support making NASA lesson plans accessible while relying on proven NASA STEM ASTRO CAMP methodology.

Camps consist of student-centered, standards-based activities that utilize NASA resources to give educators, leaders, and facilitators everything they need for engaging, high-quality STEM learning experiences for all students.

Help students foster career dreams of tomorrow and develop life-changing goals through Next Generation science, math, and engineering skills by bringing ASTRO CAMP to your site!

- Eligible organizations must be Youth Service Organizations (YSO) who serve students grades 2-12th and are open to a close collaboration with the NASA SSC ASTRO CAMP staff.
- YSO organizations will provide: 1) a camp leader, 2) support staff, 3) facilities, 4) supplies/materials, and 5) camp management for each camp site.
- YSO camp leaders and facilitators must take part in a 1-2 day Educational Professional Development provided by NASA Education Specialists in order to be designated as an official SSC 2019 ASTRO CAMP Site.
- SSC ASTRO CAMP staff will provide the 2019 ASTRO CAMP Facilitators Guide, activity supply list, on-line resources, completion certificates, and on-line support (as needed) by NASA SSC ASTRO CAMP Education Specialists.
- NASA SSC ASTRO CAMP includes 10 hours of NASA curriculum activities delivered over five days, a NASA unique closing program with certificate presentations, and final camp data/surveys completed and returned to SSCASTRO CAMP staff at the end of each camp.



Camp Cardiac



CampCardiac

Scholarships Available

With locations nationwide, Camp Cardiac is a 1-week summer day camp open to all high school students (including Spring/Summer graduates) 15-18 years of age as of first day of assigned session and currently residing in the US. Although Camp Cardiac's primary focus is on care and maintenance of the heart, it provides an excellent starting point for careers in all fields of medicine.

For more information, including locations, dates, deadlines, and applications details, please visit www.campcardiac.org.



All of the following and more is included:

- CPR Certification*
- Hands-on Workshops*
- Basic Knowledge Lectures*
- Introduction to Various Careers in Healthcare*
- Heart Dissection (pig)*
- Medical Student Forum*
- Daily Heart Healthy Lunch*
- Healthy Living Exercise*
- Graduation Certificate*

Camp Neuro



Scholarships Available

With locations nationwide, Camp Neuro is a 1-week summer day camp open to all high school students (including Spring/Summer graduates) 15-18 years of age as of first day of assigned session and currently residing in the US. Although Camp Neuro's primary focus is on care and maintenance of the brain as well as psychology, it provides an excellent starting point for careers in all fields of medicine.

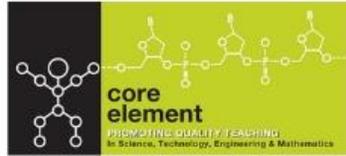
For more information, including locations, dates, deadlines, and applications details, please visit www.campneuro.org.



All of the following and more is included:

- Hands-on Workshops*
- Basic Knowledge Lectures*
- Introduction to Various Careers in Healthcare*
- Brain Dissection (pig)*
- Medical Student Forum*
- Daily Healthy Lunch*
- Healthy Living Exercise*
- Graduation Certificate*

Core Element Summer Stem Institute



2019 Summer STEM Institute

Core Element's annual Summer STEM Institute is a series of FREE professional development workshops for math and science teachers. Choose from a variety of topics, earn contact hours, and learn strategies and methodologies that can improve and motivate STEM learning in your classroom.

Google Classroom | June 11

Learn how to set up and implement Google Classroom! Uncover ways to manage your classroom more efficiently using a variety of Google tools that integrate with classroom teaching strategies and currently used programs.

Get it Right - Grant Writing to Support Classroom Instruction | June 12

Learn where to find, and how to write grants to support classroom instruction. Bring your ideas for programs or materials for which you might seek funding and jump-start the grant writing process.

Math Teaching Tools That Add Up to Student Success – Eureka Math for Grades 3 - 5 | June 18 & 19

Eureka Math is a tier 1 math program for grades K - 8 and approved by the Louisiana Department of Education. Review instructional strategies used in Eureka modules and teaching tools to help you integrate Eureka into classroom lessons in this two-day workshop. Participants will share best practices and resources currently being effectively used in their instruction.

www.core4kids.org

Mindstorm Robotics! Learn LEGO EV3 for Teachers in Grades 5 – 8 | June 25 & 26

Join Core Element for a two-day workshop and introduction LEGO EV3 Mindstorm Robotics. Learn how to build and program an EV3 robot and discover how to establish a robotics program at your school. This workshop is intended for educators who teach grades 5–8.

Inquiring Minds Want to Go -- LIGO Workshop for 5th – 8th Grade Science Educators | June 27 & 28

Join the LIGO (The Laser Interferometer Gravitational-Wave Observatory) Science Education Center for a two-day workshop focused on inquiry, interactives, and the physical sciences.

On day two of the workshop, attend a special guided field trip to the LIGO Science Education Center in Livingston!

Completion of this workshop will qualify you for priority booking for your class for an extraordinary hands-on science field trip experience at the LIGO Science Education Center in Livingston, LA and financial support for bus transportation for your students. LIGO's interactive displays are wonderfully designed to teach and motivate students!

****Teachers will receive a \$200 stipend for participating in the LIGO workshop (must attend both days to receive stipend).***



Elementary STEM Exploration - Integrating Hands-on STEM in Elementary Curriculum July 8 & 9

Discover ways to implement hands-on STEM activities into your elementary classroom curriculum. This two-day workshop will introduce strategies for incorporating basic robotics, engineering, coding, and literacy, too! Gain a variety of STEM teaching resources to implement into every subject!

LEAP 2025 Science Assessment for Grades 3 – 8 | July 11 & 12

Explore assessment strategies based on the LEAP 2025 Science Assessment in this one-day workshop for 3rd through 8th-grade teachers.

Engineer a Better World -- Engineering is Everywhere for Grades 6-8 | July 17 & 18

Explore Louisiana's Student Standards for Science in grades 6 - 8, Phenomena-based instruction, and ways to integrate science and engineering practices using the Engineering is Elementary program in this two-day workshop. Educators who complete the workshop receive an *Engineering is Everywhere* kit complete with strategies to implement phenomena-based science instruction in the classroom.

High School Biology | July 23

Calling high school biology teachers! Explore high school biology teaching strategies that align with the new Louisiana Student Standards for Science. Delve into curricula and assessment techniques.

Discover Your Inner Engineer -- Engineering is Elementary for Grades 3 – 5 July 24 & 25

Explore Louisiana's Student Standards for Science in grades 3 - 5, Phenomena-based instruction, and ways to integrate science and engineering practices using the Engineering is Elementary program in this two-day workshop. Educators who complete the workshop receive an *Engineering is Elementary* kit complete with strategies to implement phenomena-based science instruction in the classroom.



Core Element's Summer STEM Institute workshops are **FREE** to teachers in the Greater New Orleans region. A \$25 refundable fee is required at registration however the fee is refunded at the completion of each workshop.

To learn more about Core Element's Summer STEM Institute, go to www.core4kids.org or contact Tracey Zelden at tracey.zelden@core4kids.org.

www.core4kids.org

FDA Summer Professional Development Program in Food Science

Deadline for applying is April 24, 2019

The following is information about a wonderful professional development opportunity for teachers fully funded by the FDA.

Foodborne disease outbreaks and food recalls frequent the news. What organisms cause these diseases? What can an individual do to protect themselves from these diseases? What measures are being taken by the federal government to prevent transmission of these diseases?

Science, health, agriculture, and family and consumer science teachers have an opportunity to provide inquiry-based lessons related to these outbreaks, recalls, and nutrition. Lessons can be found in the curriculum Science and Our Food Supply. And, in order to prepare teachers to use these lessons, FDA provides a free multidimensional professional development program that will take place July 21 – 27, 2019 in Washington, DC. Included in the program are transportation to and from Washington and all housing and meal expenses.

During the program, selected teachers will participate in activities such as the following - meet with FDA and USDA scientists to learn about their current research on foodborne diseases and nutrition; work with instructors to learn proper techniques to use in doing all the labs with their own students; and, tour USDA's farm in Beltsville, MD.

Selected teachers are asked to implement the supplemental curriculum in their classrooms during the 2019- 2020 school year and to do a hands-on workshop on the curriculum for other teachers.

To apply on line-deadline April 24, 2019 go to: <http://www.teachfoodscience.org/apply.asp>

The Science and Our Food Supply curriculum guides on which the summer program is based are available from this website - <http://www.fda.gov/Food/FoodScienceResearch/ToolsMaterials/ScienceandTheFoodSupply/default.htm>. We strongly suggest you review these guides before applying for the summer workshop.

For more information, contact Mimi Cooper at mimicooper@verizon.net



LATM and LSTA presents

STEMulate Your Mind

November 4th and 5th 2019

Baton Rouge, La

Raising Cane's River Center

For more information, visit our websites:

www.lamath.org www.lsta.info

Stem Apprenticeship Opportunities



STEM APPRENTICESHIP OPPORTUNITIES

High School & Undergraduate Students

Are you a high school or college student looking for a life changing STEM experience? The US Army Educational Outreach Program [AEOP] has summer and year-long apprenticeship opportunities for you in universities and Army labs across the country.

FOR HIGH SCHOOL STUDENTS

RESEARCH & ENGINEERING APPRENTICESHIP PROGRAM [REAP]

A summer STEM program that places talented high school students, from groups historically underserved in STEM, in research apprenticeships at area universities.

✉ reap@aaas-world.org ☎ 603.228.4530

HIGH SCHOOL APPRENTICESHIP PROGRAM [HSAP]

A summer STEM program, which places current, rising high school juniors and seniors in university research laboratories alongside world-class Army funded researchers.

✉ jennifer.r.ardouin.civ@mail.mil ☎ 919.549.4209

SCIENCE & ENGINEERING APPRENTICESHIP PROGRAM [SEAP]

A STEM program that matches practicing DoD scientists with talented high school students creating a direct mentor-student relationship. Summer term or year-round opportunities are available.

✉ seap@aaas-world.org ☎ 603.228.4530

Visit www.usaeop.com to find out specific requirements for each program.



FOR UNDERGRAD STUDENTS

COLLEGE QUALIFIED LEADERS [CQL]

A STEM program that provides undergraduate students with an authentic science and engineering research experience in a Department of Defense Laboratory. Summer term or year-round opportunities are available.

✉ cql@aaas-world.org ☎ 603.228.4530

UNDERGRADUATE RESEARCH APPRENTICESHIP PROGRAM [URAP]

A summer, science and engineering apprenticeship specifically designed for undergraduate students offering an authentic science and engineering research experience, alongside world-class Army funded university researchers.

✉ jennifer.r.ardouin.civ@mail.mil ☎ 919.549.4209

LSTA Membership / Change of Address Form

Membership Dues (Check one box.)

- 1 year membership \$15.00
- 3 year membership \$40.00
- Full Time Student - 1 year membership \$10.00



Name: _____

Email Address: _____

***** Email must be provided to receive correspondences from LSTA (including the LASER)*****

Check here if you are interested in receiving the science E-blast!

Alternative Email Address: _____

Parish: _____ School: _____

Preferred Mailing Address (Check one box): Home Work School

Contact Phone: _____

*****Helpful when serving on committees (not required)*****

Print and mail form with dues to:

LSTA Membership
 Attention: Nathan Cotten
 P.O. Box 5097
 Houma, LA 70361

ALL CHECKS SHOULD BE MADE PAYABLE TO: LSTA