

LASER

April 2024

LSTA NEWSLETTER




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

What's In This Month's Issue:

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- Professional Development Opportunities and Resources.....Pages 3-26

LSTA BOARD AND REGIONAL REPRESENTATIVES

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President's Message

Members of Louisiana Science Teachers Association,

I hope you all had a wonderful Easter holiday and spring break. With the start of spring our weather has been beautiful lately. My favorite season, hands down is crawfish season! Enjoy the sunshine and spend time outdoors while the temperature is just right.

Speaking of the sun, the total solar eclipse occurs on Monday, April 8th. While here in Louisiana we will only see a partial eclipse, this is still an excellent opportunity to enjoy and appreciate this rare celestial event. [NSTA](#) and [NASA](#) have many resources available for you to check out. Take the time to visit these sites to gather more information about safety and activities to engage your students in on this special day.

The beginning April signals that state testing is upon us. Good luck to all those who are about to embark on their standardized testing journey. This can be a very stressful time of year, always remember that you make a difference every day with your students and one week of testing does not define all of your hard work this school year. We appreciate all you do!

Just a reminder, the LASER will take a break from featuring our Regional News Reports. Our newsletter will continue to be delivered to your inbox; however, it will only be featuring the Professional Development Opportunities and Resources. Please keep an eye out for these monthly updates as they feature several events statewide that will allow you to continue supporting our science education community. In addition to this, we will be taking a break from our monthly coffee talks. These will begin again in August and dates will be released this summer.

The summer will bring many professional development opportunities including the Louisiana Department of Education's [Teacher Leader Summit](#), which will take place May 28-30th in New Orleans. There will be several science sessions featuring some of the LSTA board members on topics such as HQIM embedded curriculum and summative assessments, K-2 Sensemaking, QSM grant writing and more. Also, LSTA will have an exhibitor table with LATM at the summit, and we would love for any attendees to stop by. We hope to see you all there!

Another excellent professional development opportunity coming to New Orleans is the NSTA National Conference, which will be held November 6-9, 2024 at the New Orleans Ernest N. Morial Convention Center. The call for reviewers and proposals has opened. Page 3 of this newsletter contains links and more information or check out the [NSTA site](#) to learn more. We would love for you to join us at this amazing event.

Sincerely,

Bianca Deliberto

Dr. Bianca Deliberto



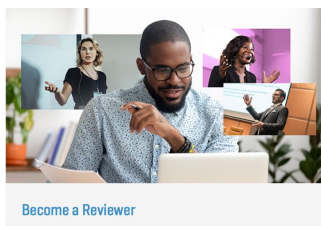
Professional Development Opportunities and Resources



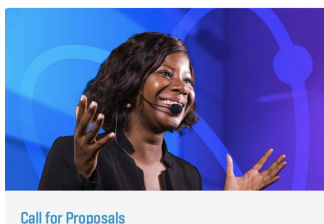
NSTA is headed to New Orleans, infusing its fall national conference with the city's unique energy and culture. Join us for an unforgettable experience where professional growth meets the soulfulness of the Big Easy. Click on the button below to register!

REGISTER TODAY

Also, consider applying to become a reviewer. Applications have just opened. Reviewers are integral to the creation, quality, and integrity of the educational content offered at the NSTA Conference. NSTA values its volunteers Interested candidates must apply to be a reviewer and complete a questionnaire that will guide the proposals that they will be assigned. Want to learn more? Click on the photo below to find out more information about the application process.



The portal for proposal submission is open! The National Science Teaching Association (NSTA) invites you to submit a proposal for educator sessions at the 2024 National Conference on Science Education in New Orleans, LA. If you've been working on something that reflects the best thinking in our field, now is the time to submit your proposal and share it with the community in New Orleans in November 2024. Click on the photo below to find out more information about the submission process.



Professional Development Opportunities and Resources



Gordon A. Cain Center for STEM Literacy

The LSU STEM Pathways is a program run exclusively by the Gordon A. Cain Center. It is designed for K-12 students in Louisiana's public, charter, or private school systems to get hands-on experience with STEM.



LSU partners with schools across the state to prepare teachers, students, and administrative staff to deliver more than 30 STEM courses plus STEM modules for middle and elementary.

SUMMER TRAINING INSTITUTE



June 3 - June 18, 2024



June 19 - July 3, 2024



Training is **virtual** with synchronous and asynchronous components

Detailed course-specific schedule will be available mid-March. To learn more, email us or visit our webpage:

stempathways@lsu.edu

www.lsupathways.org

ELEMENTARY | MIDDLE | HIGH

Benefits For Schools

CDF and/or CTE funding for course support available for select high school credit courses

High school credit in middle school

SPS points for Industry Based Credentials and Dual Enrollment

Vertical alignment of STEM curriculum from kindergarten through high school

Benefits for Students

High-Quality, Project-Based Standards Aligned Courses and Modules

Earn LSU Pathway Certificates and Opportunity for Industry Based Credentials

Opportunity to apply for Scholarships at LSU

Dual Enrollment opportunities (High School only)

Benefits for Teachers

Access to LSU graduate tuition scholarships and support programs

Opportunity to participate in grant funded STEM education research

Access to a minimum of six free Community of Practice sessions

For the 2024-25 school year, the LSU STEM Pathways program is no longer using the BRBytes platform for the Computing Pathway courses. Schools who have a signed MOU with the BRBytes grant *and* with the LSU Cain Center can continue to use the LSU Partnership course codes for Introduction to Computational Thinking and Cybersecurity in 2024-2025 using the BRBytes platform for course delivery provided the teacher is trained in those courses by the BRBytes grant team. For non-grant participants, we are offering **free, virtual** re-training for previously trained teachers in the following courses: Introduction to Computational Thinking, Introduction to STEM Pathways & Careers, Cybersecurity, and Survey of Computer Science. Additionally, we encourage schools to take advantage of Code.org training we are offering in partnership with the Capital Area STEM Network Center.



WETshop 2024

July 14–19, 2024

LDWF Marine Research Lab, Grand Isle, LA

Application Due:
May 10, 2024

Number of Participants: 15 Teachers Registration Fee: \$50.00

What is WETshop?

A week-long coastal awareness workshop for teachers. Through WETshop, teachers work with scientists and educators to learn about Louisiana's coastal wetlands and become wetland stewards. Implementation of a six hour wetland stewardship project for students, teacher, and/or community in your parish after completion of the summer workshop is encouraged.

Highlights & Experiences:

- Fisheries management
- Research trawling and seining
- Barrier island and their role in coastal health
- Coastal botany and ornithology
- Visits to transitional coastal ecosystems
- A tour of one of the largest oil ports in the US
- Visits to coastal restoration and oil spill impact sites
- The role of invasive species in coastal land loss

Participants Will Receive:

- Wonders of Wetlands Teacher Guidebook
- Up to 61 professional contact hours
- Numerous classroom resources



**Contact: Lindsay Seely at Lseely@wlf.la.gov
Apply at www.wlf.louisiana.gov/page/for-teachers**

Professional Development Opportunities and Resources



with **ENGINEERING DESIGN** and **REAL-WORLD CONNECTIONS**

UL Region 4 STEM Network Center

April 13

8:00 am – 3:00 pm



- *Provided by SeaPerch Master Trainer*
 - *Free of charge*
- *Kit provided for every 4 educators in training*
 - *Bring your own lunch*
- *All trained teachers receive kits for classroom*

REGISTER TODAY! Link to
SeaPerch Training

<https://bit.ly/SeaPerchRegion4>



What Educators Say About SeaPerch:

“SeaPerch is everything a teacher could want to implement into their curriculum and classroom. It provides all students an opportunity to experience something that might otherwise never be offered until later in their educational careers. It can create a spark within a student early so that he or she may develop a love for math and engineering and choose classes, books, experiences accordingly.”



Professional Development Opportunities and Resources

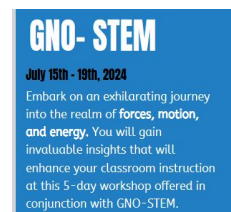


June 3-7, Light Interference: LIGO exploring the universe w/ LA-STEM

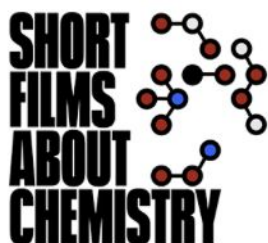
July 8-12, Project MISE w/ SUBR (week in the summer, year-long follow-up)

July 15-19, Forces, Motion & Energy in LIGO w/ GNO-STEM

- Targeted at MS and HS science teachers
- Provides stipends and priority field trip booking



Films and Lesson Plans from Chemistry Shorts The Chemistry Shorts™ film series spotlights the positive impact of chemistry on modern life as scientists work to solve important problems and create new opportunities that benefit humanity. Learn more about Chemistry Shorts and see all of the films, lesson plans, and experiments in this series. "Frosty Formulations" dives into the exciting chemistry behind one of the world's favorite desserts: ice cream! "Driving Reactions" features a "plastic eating enzyme" that harnesses nature's own innovations to solve problems. "Untapped Potential" explores the growing challenge we face in providing sustainable fresh water supplies to our communities.



NSTA Safety Blog Commentary by Dr. Ken Roy, NSTA Chief Safety Compliance Consultant: "Studies Indicate Safety Must Be A Greater Priority in STEM and CTE Instructional Spaces" - The National Science Teaching Association's (NSTA) March Safety Blog by Dr. Ken Roy examines the most critical safety issues recently reported by STEM educators and discusses how school districts can work to address these concerns in alignment with legal safety standards and better professional practices. A short read and very helpful resource for school teachers, administrators, supervisors, school districts and state science/STEM supervisors facing issues with common safety concerns such as large class sizes, lack of safety training/PPE/engineering controls, and other issues.



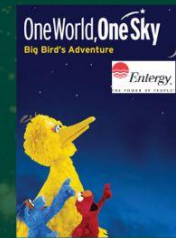


APRIL SCHEDULE

11 A.M.

ONE WORLD ONE SKY

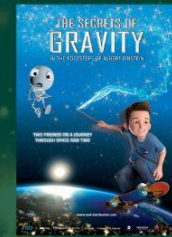
Join Big Bird, Elmo and their friend from China, Hu Hu Zhu as they locate the Big Dipper, the North Star and the moon in the night sky.



12 P.M.

SECRETS OF GRAVITY

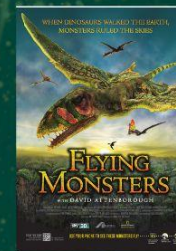
Limbradur and ALBYX3 embark on a magical journey of discovery through time and space to uncover the secrets of gravity and explore the theories of Albert Einstein!



1 P.M.

FLYING MONSTERS

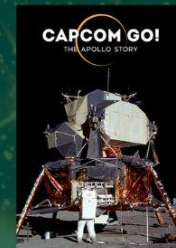
You can discover the truth about the dinosaur cousin, the pterosaur, with a wingspan of about 40 feet.



2 P.M.

CAPCOM GO!

View an immersive, historical documentary showcasing the achievements of the Apollo program and what it took to put the first human on the Moon.



3 P.M.

LASER JOURNEY

Laser Journey is fun for audiences of all ages whether you first fell in love with the band's music while roller skating in the 1980's or watching American Idol and Glee!



Adults - \$6.00 Children/Seniors \$5.00

Professional Development Opportunities and Resources



Tulane University Center for K-12 STEM Education

Upcoming Events:

- Saturday, April 13th - Boys at Tulane in STEM (BATS)
 - Grades 3-8 teachers can attend BATS for free! You experience three hands-on workshops, discuss how to implement the activities and aligned standards into their classrooms, and receive supplies to bring the activities back to your school! \$100 STIPEND also PROVIDED!!
 - If you would like to bring a group (from a school, girl/boy scout troop, etc.), please email k12stem@tulane.edu.



June Workshop Opportunities:

- June 11-12: Explore Coding and Robotics with LEGO® Spike Prime Essential - Grades 1st-4th
 - Day 1 is in-person at Tulane's Uptown Campus and Day 2 Virtual!
 - 2 Options: 9-hour PD will be for rookie coaches who want to learn more about FIRST LEGO League Explore, whereas the 6-hour PD (Day 1 only) is for teachers who want to learn how to use Spike Prime Essential but have coached a FIRST LEGO League Explore team before.
 - Teachers will receive a \$100 (6 hours) or \$150 (9 hours) stipend upon completion of the PD.
- June 24-25th: Exploring Coastal Deltaic Issues in the Mississippi Gulf Region
 - This 3-day workshop will consist of 2 days at Tulane's campus and 1 day at LSU's Center for River Studies. Transportation will be offered to each campus.
 - Upon completion, teachers will receive a \$300 stipend and materials to take back to their schools that align with Louisiana's science teaching standards to engage their students on the impacts this problem poses on natural resources and resource management in the region.



Professional Development Opportunities and Resources

Exploring the Deep Ocean with NOAA

Professional Development for Educators of Grades 6-12

Educators of grades 6-12 are invited to join a NOAA Ocean Exploration facilitator and our Education Alliance Partners for a full-day, in-person professional development workshop. Together we'll dive into the diverse reasons for why it is important to explore the ocean and the variety of tools and technologies that drive how we conduct expeditions in some of the most remote places on the planet.

This fun-filled, full-day workshop will include:

- A brief introduction to NOAA Ocean Exploration and why and how we explore the ocean;
- Several lessons and hands-on activities that support current science standards and classroom pedagogy to bring the excitement and mystery of deep-sea exploration alive for students;
- Reflection and discussion with peer educators about how to implement these materials in the classroom; and
- A guided tour of additional free, online ocean education resources available from NOAA Ocean Exploration and the Deep Ocean Education Project website

Registration is required and space is limited. Registered educators will receive a collection of classroom-ready resources to continue exploring the deep ocean with NOAA in their classrooms that includes student investigations, videos, fact sheets, and more. Additionally, educators that attend the full day, in-person workshop will receive a NOAA Ocean Exploration Certificate of Participation, and a \$100 stipend. *This professional development workshop is an updated version of previous Exploring the Deep Ocean with NOAA, Why Do We Explore, and How Do We Explore workshops.

This NOAA Ocean Exploration professional development for educators is offered in partnership with Education Alliance Partners and the National Marine Sanctuary Foundation. Register today for a workshop at the Alliance Partner location nearest you!



Professional Development Opportunities and Resources



Coding for Marine Science

A Free Teacher Workshop

June 28-30, 2022

Workshop Description

Right now, Louisiana communities are facing substantial environment changes due to land loss and climate change. Coding for Marine Science provides a new perspective into the world of coding and environmental monitoring that we will rely on to understand and face these changes.

Educators will gain access to the support, content, and skill building to engage students in the use of coding for environmental monitoring. Participants will construct, code, and deploy monitoring stations powered by Raspberry Pi kits and probes.

The workshop also includes sessions about how LUMCON scientists collect field data, run data analyses, and interrupt those data. Better understanding of coding for these applications and how marine scientists are using environmental monitoring will provides more flexibility for students to innovate and test their own creations as they apply to marine and environmental science.

Workshop Details

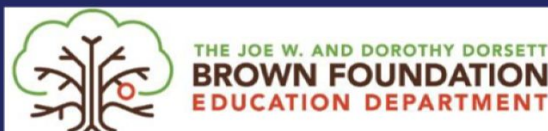
- The workshop will be held at the DeFelice Marine Center in Cocodrie, LA.
- Participants will be provided with meals and lodging (if required) during the workshop.*
- Participants will be provided with a Raspberry Pi kit for use in the classroom.
- Participants will work with LUMCON researchers to learn how they use coding and technology in their research programs.
- Participants will have students create projects and share insights through surveys.
- Participants will receive a \$250 stipend for attending and participating in workshop activities.

*Participants will be expected to adhere to all LUMCON COVID restrictions and policies.

Contact us if you have questions, would like more details, or would like to register for the workshop.

Workshop Contact: Murt Conover
mconover@lumcon.ed
u (985) 851-2860

Funding for the workshop was generously provided by



Professional Development Opportunities and Resources



COMMUNITIES OF PRACTICE SERIES | **STEM LIBRARY LAB EQUIPMENT LENDING 00-09**

Winning Grants for Your Classroom



GRANTS

Learn how to win money for your classroom or for your professional development adventures! Join us in person or on Zoom for a 90 minute workshop on Grant Writing for Your Classroom.

Dr. Lanette Jimerson has 20 years of experience as a professor, researcher, and educator helping equity-minded leaders make their dreams come to life. This workshop is limited to 24 participants, so register today before spots fill up!

WORKSHOP FACILITATOR:
Dr. Lanette Jimerson



JOIN US!



APRIL 11

4:00-5:30 pm

STEM Library Lab or Zoom!

[Click here to register.](#)

STEM Library Lab | 3011 N I-10 Service Rd E, Metairie, La. 70002 | 504-517-3584 ext. 1 | info@stemlibrarylab.org | @stemlibrarylab



COMMUNITIES OF PRACTICE SERIES | **STEM LIBRARY LAB EQUIPMENT LENDING 00-09**

Tech @ SLL pt. 3 Robotics Learning Lab



WORKSHOP FACILITATOR:
Christopher Matten

JOIN US!



00-00 25 APR

4:30-6:00 pm

STEM Library Lab
3011 N I-10 Service Rd E
Metairie, LA 70002

[Click here to register.](#)

Students are both drained and hungry for activity after testing. This is the time of year when we finally give them the learning experiences they've asked for all year. Fill your classroom with the buzz of robotics as the year comes to an end!

The Robotics Learning Lab will feature 5 single-class lessons to fit into your end of year schedule! Register to join us in person at STEM Library Lab.

STEM Library Lab | 3011 N I-10 Service Rd E, Metairie, La. 70002 | 504-517-3584 ext. 1 | info@stemlibrarylab.org | @stemlibrarylab

Professional Development Opportunities and Resources

[STEM Library Lab](#) is inviting K-12 educators to apply for noncompetitive service learning grant awards. Service learning connects classroom learning and community service, offering numerous benefits for students and communities alike. The Service Learning Program can provide funding to cover expenses such as transportation, classroom materials, and needed to complete the project. A few benefits of service learning include:



- Exposure to professions and industries that may be unfamiliar to students.
- Fostering critical thinking and creative problem-solving skills.
- Hands-on experiences that enhance student understanding of complex concepts.

Applications for the 2024-2025 school year are being accepted through April 26, 2024. Schools can apply via the STEM Library Lab website. Eight Ready-to-Go (or pre-packaged) projects are available to Greater New Orleans area schools for the 2024-25 school year. For anyone excited to apply, but in need of support completing the grant application or selecting a quality project, we're here to help! We highly recommend that interested teachers attend a service learning workshop and 1-on-1 coaching is available upon request.

Please contact Maria Landrum at 504-517-3584, ext. 3 or maria@stemlibrarylab.org with any questions.

Careers for Engineers

New from EiE, Museum of Science, check out Careers for Engineers, an online experience for kids to explore STEM careers. Designed for students ages 7-12, Careers for Engineers offers a personality-style quiz that shows kids how their interests connect to a career in an engineering field. After taking the quiz, children are presented with fun, colorful infographics packed with key facts about their engineer career match. Each infographic also includes links to other EiE and Museum of Science resources. Parents, caregivers, and educators can skip the quiz and download all five infographics directly. All resources (webpage, quiz and infographics) are available in both English and Spanish. Try it for yourself and share with a friend! What kind of engineer are you?



Professional Development Opportunities and Resources



READY-TO-GO SERVICE LEARNING PROJECTS

The STEM Library Lab Service Learning Program provides funding for projects that allow K-12 students to meet community needs through project-based learning. Our Ready-to-Go (RTG) projects are fully funded, pre-packaged service learning projects developed by STEM Library Lab for schools in the Greater New Orleans area. RTG applications are one page and require a brief but mandatory orientation for the teacher overseeing the project.

The service component has been paired with relevant classroom curriculum and aligned with Louisiana student standards. RTG partnerships have been developed with multiple service organizations for the 2024-2025 school year. Please share this information with your school administration and colleagues. **Applications are due April 26, 2024.**



FOR MORE INFORMATION, VISIT WWW.STEMLIBRARYLAB.ORG/SLP OR CALL 504.517.3584 EXT. 3



Contributing to a healthier planet is a *walk in the park!*

Here are simple ways to make every day Earth Day

LOWER YOUR CARBON FOOTPRINT

- Bike or walk
- Carpool or take public transportation
- Choose an energy efficient vehicle
- Make fewer trips by grouping your errands
- Drive smart: go easy on the brakes and gas, use cruise control, and keep your car well-maintained

REDUCE, REUSE, AND RECYCLE

- Reuse or repurpose containers, clothing and cloth grocery bags
- Give clothes a second life by donating or buying used
- Know what items your local recycling program collects, and what items are recyclable

BE H₂O SMART

- Repair leaky faucets and replace old equipment like toilets and dishwashers when possible.
- Turn off the water to brush teeth and shave
- Run full loads of laundry and dishes
- Collect rainwater to use in your garden

FEED PEOPLE, NOT LANDFILLS

- Check your refrigerator, pantry, and freezer before shopping to avoid buying foods you don't need
- Plan your meals for the week before heading to the store
- Properly store fruits and vegetables so they last longer
- Befriend your freezer and leftovers

epa.gov/earthday



Professional Development Opportunities and Resources

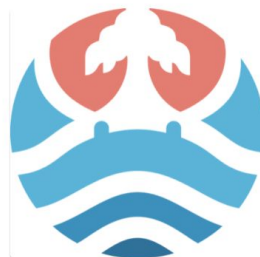
Wetlands Discovery Center Swamp Camp Scheduled for June

The South Louisiana Wetlands Discovery Center will hold its annual swamp camp from 8 a.m. to 4 p.m. June 3-7, 2024 and June 10-14, 2024 for campers grades 4 to 7.

“Our camps will educate students on the basics of Louisiana’s wetlands and the importance of the coast’s industries using daily field trips and activities,” said Wetlands Discovery Center Program Director Samantha Hicks. “Field trip destinations include: swamp tours, crabbing, Greenwood Alligator Farm tour, and more!”

Camp activities will include lessons in native plant use, land subsidence, water quality, fish anatomy and estuary management to encourage students to preserve our coast. In addition to lessons focused on coastal wetlands, the camps will also educate students on the oil and gas, fishing, and agriculture industries that support the economy of Southern Louisiana.

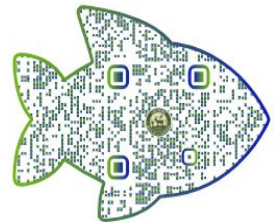
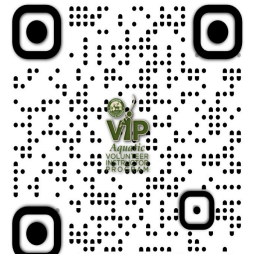
Camp tuition is \$175 per week and includes ALL field trip costs. There is NO REGISTRATION FEE! Only 25 students will be accepted per week. For more information about the camp or to print a registration form, please visit www.slwdc.org or email shicks@slwdc.org.



LDWF Fisheries Outreach & Education

Workshops

- Volunteer Instructor Program (VIP): multiple dates available
 - April 4 in New Orleans
 - April 11 in Hammond
 - April 16 in Pineville
 - June 6 in Lake Charles
- WETshop: July 14-19 in Grand Isle
- Native Fish in the Classroom (NFC): applications due by 6/30; new teacher orientation in August



Resources

- Activity Books
 - 3 books geared towards K-6 grades about aquatic education; teachers can host an aquatic clinic upon completion of the books
- Outreach Request Form
 - We are happy to assist you in your classroom, on school grounds, or in local community parks with various aquatic ed activities



Professional Development Opportunities and Resources



Edible Schoolyard: Interdependence in the Garden Ecosystem In this 12-lesson series from The Edible Schoolyard Project, students explore ecological concepts through hands-on garden engagement. They apply basic organic farming practices in their garden classrooms and conduct observations and analyze data to better understand how the garden functions as an ecosystem.

OurEcho challenge

The OurEcho Challenge is a STEM competition that empowers young changemakers to take a closer look at biodiversity in their communities. Young leaders will first identify threats to local ecosystems and then propose solutions to help preserve, protect, or restore those natural resources directly taking action toward United Nations' Sustainable Development Goals 14 and/or 15. This year, EarthEcho is excited to open the OurEcho Challenge STEM competition to youth leaders in the US, ages 13-16. Up to ten finalist teams will advance for a chance to win top prizes of \$1,000, \$2,500, and \$5,000!

NEW THIS YEAR: youth can submit their project entries without an adult mentor or teacher. However, we do encourage youth-led teams to work with an adult mentor or teacher at a local organization or school as the grant prizes will not be awarded to the students directly, but rather to support the project through their supporting organization or school. Full details can be found here.

US Deadline: April 26, 2024 at 11:59 PM ET/ 10:59 PM CT/ 9:59 PM MT /8:59 PM PT/ 5:59 PM HT.

If you have any questions, please contact EarthEcho's Associate Director of Programs, Kasey Gaylord-Opalewski at kasey@earthecho.org or +1 941-685-9274. Thank you for your support!



PAID TEACHER WORKSHOPS

Coastal & Environmental Education with CWPPRA's WaterMarks360



June 18, 2024 10AM-2:30PM

\$100 stipend and activity kit for
participating teachers

Limited Seats Available/Open to Middle
School Teachers in GNO STEM Region

UNO Oliver St. Pe' (TRAC Center)

New Orleans, LA 70148

Take your students on the WaterMarks360: Our Changing Delta Virtual Field Trip! This resource highlights the scientific, economic, and cultural outcomes that are directly tied to Mississippi River delta management and the regions geologic history. WaterMarks360 uses online resources (website, videos, and a virtual tour), a physical kit of supplies, and printed materials to immerse middle school learners in this critical area of environmental science. Participating teachers will receive access to all online materials, a stipend, and a free classroom activity kit supporting 6 classroom activities.

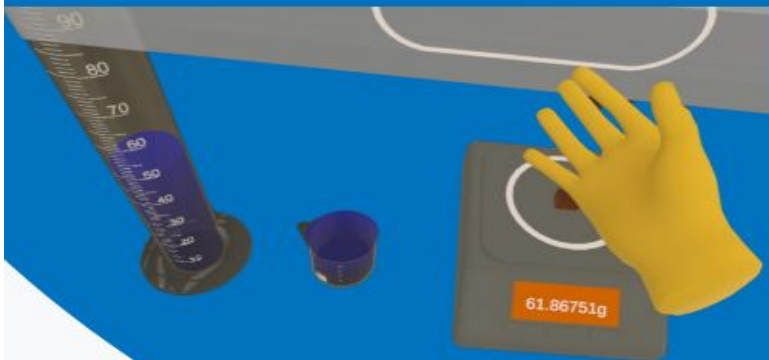
Interested teachers can register at

<https://www.eventbrite.com/e/830482444347?aff=oddtcreator>

More information available at at <https://gnstem.org/>

GNO STEM & *BeyondReality@UNO* Present

Virtual Reality Labs Workshop



FOR MIDDLE AND HIGH SCHOOL TEACHERS

**BRING VIRTUAL REALITY TO YOUR STUDENTS!
BEYONDREALITY@UNO IS A VR MAKER SPACE THAT ALLOWS YOUR STUDENTS TO USE VR TOOLS TO ENHANCE LEARNING.**

DATE:

June 13th & 14th
9:00 am - 4:30 pm

LOCATION:

University of New Orleans

TO REGISTER:

<http://gnostem.org/>
Numbers are limited.
Register soon!

BENEFITS FOR PARTICIPANTS:

- 2 VR labs for your students – Density and Materials
- Teachers can bring students to VR maker space or use equipment at their schools
- Follow-up hands-on labs
- Enhance classroom instruction with VR experience
- \$200 Stipend Offered



BeyondReality@UNO

THE UNIVERSITY of
NEW ORLEANS

FUNDED BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



Hands-on STEM Summer Camps

GNO STEM's **hands-on summer camps** offer fun and **engaging hands-on experiences** in STEM— science, technology, engineering, and mathematics. Campers work individually and in teams as they sharpen their **critical thinking and communication skills** and learn to think like scientists. Plus, campers meet and learn from **STEM industry professionals** who share their expertise and introduce STEM opportunities and careers in Louisiana and beyond.

Engineering, Circuitry & Robotics Camp! June 10 – June 14 | 9 am – 2 pm For students entering grades 4 – 6

Explore electrical circuitry, LED projects, roller coaster design, coding robots, vehicle crash safety, and more! Students will use the Engineering Design process to design and create various projects throughout the weeklong, hands-on camp.



SeaPerch & Underwater Robotics STEM Camp – Build & Test Underwater SeaPerch ROVs June 17 – June 21 | 9 am – 2 pm For students entering grades 6 – 9

Campers will be guided through real-world engineering and design projects centered around building an underwater ROV. The program uses hands-on methods to equip students with the resources needed to learn basic science and engineering concepts like **tool safety, technical applications, problem-solving, and teamworking skills**. Upon build completion of the SeaPerch ROVs, students will be challenged to compete in various underwater obstacles with their robot.

ASTRO Space Camp – Explore the Mysteries of Space | ALL NEW ACTIVITIES! July 8 – July 12 | 9 am – 2 pm For students entering grades 3 – 6

Explore the mysteries of space as we take spacewalks in virtual reality, launch rockets, shoot for the stars, log your missions, and collaborate as a crew to complete challenging space missions.

In partnership with **NASA, GNO STEM** and **Central Creativity, Astro Camp®** gives ALL students the chance to get involved in and experience STEM, inspiring future astronauts and engineers to learn about space through hands-on NASA activities.



Professional Development Opportunities and Resources



Engineering Challenge Camp — Let's Build! July 15 – July 19 | 9 am – 2 pm For students entering grades 3 – 6

Campers explore the six simple machines – the inclined plane, lever, pulley, screw, wedge, and wheel and axle. Hands-on activities will highlight each simple machine and how they are used in everyday products and devices in our daily lives.

The competition is on! At the end of the camp week, campers will be challenged to put what they've learned to use and design their own machine that employs all six types of simple machines.

Urban Ecology Nature Camp — Critters, Plants, and Wildlife July 22 – July 26 | 9 am – 2 p m For students entering grades 3 – 6

WARNING: This camp contains live insects! Or should we say, "WOW! This camp uses live insects!?"

Whether you're building monarch butterfly gardens, making creations from recycled materials, performing biomass classifications, designing wildlife habitats, or crafting environmental awareness campaigns, campers will get their hands dirty while learning about protecting and preserving our planet.



All GNO STEM summer camp programs are led by **certified teachers** and supported by GNOSTEM staff, volunteers, and high school robotics team students.

Location: All camps will be held at the **University of New Orleans TRAC Center**.



Space is limited. Register Soon @ gnostem.org or scan the QR code:



A limited number of partial scholarships may be available. Contact Jennifer LaCoste at jennifer.lacoste@gnostem.org for additional information.

Professional Development Opportunities and Resources

HIGH-QUALITY
COMPUTING
COURSES



DEVELOPED
IN LOUISIANA
FOR LOUISIANA



AT NO COST TO
SCHOOLS OR
DISTRICTS



COURSE SELECTION:

LSU's BRBytes program offers **free training** for teachers on any of 7 hands-on, **project-based**, vetted **computing courses** for 7th- 12th grade. The courses are designed for both college and career bound students. There is **not cost** to offer the curriculum and are **no fees** per student enrolled.

BATON ROUGE:
BRINGING YOUTH
TECHNOLOGY,
EDUCATION AND
SUCCESS

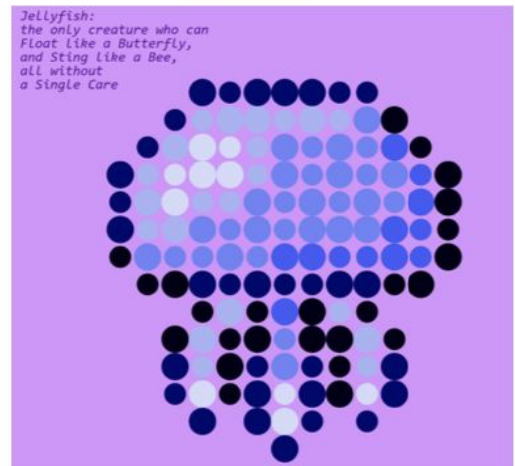
- Intro to **STEM** Pathways and Careers
- Survey of **Computer Science**
- Introduction to **Computational Thinking**
- Interactive **Computing**
- **Data** Manipulation and Analysis
- **Cyber Security**
- **Programming** for STEM

CSforALL

ADDRESS THE
MATHEMATICS
COMPUTING
AND EQUITY
GAPS OF TODAY



FOR THE COMPUTER
SCIENTISTS,
DATA ANALYSTS,
AND DIGITAL
CREATORS OF
TOMORROW



Jellyfish:
the only creature who can
Float Like a Butterfly,
and Sting Like a Bee,
all without
a Single Care

A SEGMENT OF THE CODE A STUDENT WROTE TO DRAW THE JELLYFISH

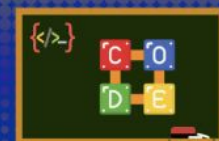
```
--Jellyfish
>fish = combined[white, lb2, lBlue, medBlue, darkblue, black]
>fish2 = combined[white2, lb22, lb12, medBlue2, darkBlue2, black2]
--Darkblue
>darkblue = combined[colored(dotSize4(0,0), rgb(4, 0, 111)),
colored(dotSize4(1,0), rgb(4, 0, 111)),
colored(dotSize5(2,0), rgb(4, 0, 111)),
colored(dotSize5(3,0), rgb(4, 0, 111)),
colored(dotSize5(-1,0), rgb(4, 0, 111)),
colored(dotSize4(-2,0), rgb(4, 0, 111)),
```



TEACHERS
AT QUALIFIED SCHOOLS
MAY BE COMPENSATED
UP TO \$4,100
FOR ATTENDING TRAINING.
EMAIL INFO@BRBYTES.ORG
ASAP FOR MORE INFORMATION.

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Explore More:
WWW.BRBYTES.ORG





STEM



GNO STEM & LIGO Present *Forces, Motion & Energy* Workshop



FOR MIDDLE AND HIGH SCHOOL TEACHERS

INVESTIGATE FORCES, MOTION AND ENERGY USING HANDS-ON INQUIRY. LEARN HOW LIGO USES THESE CONCEPTS TO EXPLORE THE COSMOS.

DATE:

Mon July 15th – Fri July 19th
8:30 am – 4:00 pm

LOCATION:

GNO STEM (2 days – UNO)
LIGO (3 days – Livingston, LA)

TO REGISTER:

<http://gnostem.org/>
Numbers are limited.
Register soon!

QUESTIONS? CONTACT:

outreach@ligo-la.caltech.edu
225-686-3193

BENEFITS FOR PARTICIPANTS:

- Stipend Offered – \$100 per day
- Priority for booking field trips
- Financial support for field trips in the 2024-2025 academic year
- LIGO Materials Kit for hands-on activities
- Gain invaluable insight to enhance classroom instruction



GET CERTIFIED TO TEACH COMPUTER SCIENCE!

The Energize Project is seeking 1,000 Louisiana 6th-12th grade public school teachers to get certified in Computer Science.

 in energizing Computer Science Education and industry statewide through a ground breaking project, funded by the Louisiana Department of Education.

COHORT DATES

1. Tuesdays, March 19 - May 7, 6-9pm (Virtual)
2. Thursdays, March 21 - May 9, 6-9pm (Virtual)
3. Saturdays, March 23 - May 11, 9am-12pm (Virtual)
4. Mondays, March 25 - May 13, 6-9pm (Virtual)
5. June 3-6 (M-Th) - 9am-4pm (Hybrid at SELU)

FREE + STIPEND

- Free 40 hour training workshop
- Free study materials and support
- Free Computer Science Praxis (5652) exam

\$350 STIPEND UPON COMPLETION OF THE PROGRAM



APPLY NOW

[NORTHSHORESTEM.ORG/ENERGIZE](https://northshorestem.org/energize)
EMAIL: [ENERGIZE@NORTHSHORESTEM.ORG](mailto:energize@northshorestem.org)

Are you a K-5th Grade Teacher? The Ignite Project is for you! Visit this link: capitalareastem.org/ignite

Professional Development Opportunities and Resources

nsta
NATIONAL CONFERENCE ON SCIENCE EDUCATION
NEW ORLEANS 24
NOVEMBER 6-9