

*Joint Math and Science Conference – STEMulate your Mind*  
*Baton Rouge River Center November 4 -5, 2019*



# Pre-Conference Newsletter

## A Message from the LATM and LSTA Presidents

Greetings Educators,

We are excited to be hosting this year's LATM/LSTA joint conference at the Baton Rouge River Center and are anxious to see everyone November 4 and 5. This year the new two day format will allow less time away from your students while still offering a quality, professional learning opportunity. A variety of extended sessions will be offered Monday morning at an additional cost of \$25. The official start of the **2019 LATM/LSTA Conference: STEMulate Your Mind** (<https://lsta.info/annual-conference>) will begin at noon on Monday with the Carolina Biological Kick Off Exhibit Showcase, where exhibitors will showcase educational materials and instructional equipment available from commercial distributors and not-for-profit organizations and agencies, followed by concurrent sessions in the afternoon, and ending the day with the awards ceremony at the Louisiana Arts and Science Museum. Baton Rouge has a variety of menu offerings in its downtown restaurants for those looking to enjoy a relaxing dinner as well. The conference will continue Tuesday with a full day of concurrent sessions.

The conference committee has been working hard to prepare a great event for math and science teachers of all grade levels. You will have the opportunity to attend interactive extended sessions, field trips, and concurrent sessions while networking with other educators from across the state and region. Sessions will focus on Mathematics, Science, STEM, STEAM, and/or General Classroom Practices.

Please consider sharing your expertise with your peers by submitting a concurrent session proposal. Online submissions are being accepted through August 26th. We hope you plan to join us in Baton Rouge in November!

Trisha Fos

LATM President

[www.lamath.org](http://www.lamath.org)

Patrice Mire

LSTA President

[www.lsta.info](http://www.lsta.info)

# **Joint Math and Science Conference – STEMulate your Mind**

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## **Conference Overview**

### **Monday, November 4<sup>th</sup>**

Extended Sessions and Field Trips:	8:30 a.m. – 11:30 a.m.
Exhibitor Registration and Set-up:	8:00 a.m. – 11:30 a.m.
Conference Participant Check In:	9:00 a.m. – 4:30 p.m.
Carolina Biological Conference Kickoff:	12:00 p.m. – 1:30 p.m.
Exhibit Hall Open:	12:00 p.m. – 5:00 p.m.
Concurrent Sessions:	1:40 p.m. – 4:30 p.m.
Outstanding Educator Awards @ LASM:	5:00 p.m. – 6:30 p.m.

### **Tuesday, November 5<sup>th</sup>**

Conference Participant Registration:	7:30 a.m. – 12:00 p.m.
Exhibit Hall Open:	7:30 a.m. – 3:30 p.m.
Concurrent Sessions:	8:00 a.m. – 4:30 p.m.
Dedicated Exhibit Hall Times:	11:50 a.m. – 12:10 p.m. 2:00 p.m. – 2:30 p.m.

## **Accepting Proposals for Concurrent Sessions**



Proposals for 50-minute concurrent sessions to be held on Monday, November 4<sup>th</sup> and/or Tuesday, November 5<sup>th</sup> are now being accepted. Proposals must be submitted via [the online form](#) by **August 26, 2019**. The Lead Presenter and Co-presenter(s) listed in the proposal must be registered for the conference. Registration should be completed by the Early Bird Deadline.

To complete submission form: <http://bit.ly/LATMLSTPresentations>

If there are any concerns or questions about this process, please contact Tricia Miller and Jeff Holcomb at [ScienceandMathEducators@gmail.com](mailto:ScienceandMathEducators@gmail.com).

**Page Keeley – Special Guest/Extended Session Speaker**



Page Keeley retired from the Maine Mathematics and Science Alliance (MMSA) where she was the Senior Science Program Director for 16 years, directing projects and developing resources in the areas of leadership, professional development, linking standards and research on learning, formative assessment, and mentoring and coaching. She has been the PI and Project Director of 3 National Science Foundation-funded projects. In addition to NSF projects, she directed state MSP projects. She founded and directed the Maine Governor's Academy for Science and Mathematics Education Leadership, a replication of the National Academy for Science Education Leadership of which she is a Fellow.

Currently she provides consulting services to school districts and organizations throughout the U.S. on building teachers' and school districts' capacity to use diagnostic and formative assessment. She is a frequent invited speaker on formative assessment in science and mathematics.

Ms. Keeley taught middle and high school science for 15 years before leaving the classroom in 1996. At that time, she was an active teacher leader at the state and national level. She served two terms as President of the Maine Science Teachers Association and District II NSTA Director. She received the Presidential Award for Excellence in Secondary Science Teaching in 1992, the Milken National Distinguished Educator Award in 1993, the AT&T Maine Governor's Fellow in 1994, the National Staff Development Council's Susan Loucks-Horsley Award for Leadership in Science and Mathematics Professional Development in 2009, and the National Science Education Leadership Association's Outstanding Leadership in Science Education Award in 2013.

In her spare time when not enjoying her grandchildren Page gardens at her homes in Florida and Rhode Island and enjoys cooking, traveling, photography, and food blogging.

## Travel Grants

### 2019 LATM Travel Grant Awards



The Louisiana Association of Teachers of Mathematics is awarding up to \$3000 in travel grants with each grant awarded worth up to \$300 to offset the expense of attending the 2019 LATM/LSTA Joint Conference in Baton Rouge on November 4 and 5. The money can be used to cover conference registration, short course registration, lodging, meals, parking, and/or travel not covered by other funding sources. Grant applicants will be notified of their status at least one month prior to the conference. The money will be awarded at the conclusion of the conference. There are two types of grants are offered: attendees and presenters.

Applicants must be LATM members on or before August 1, 2019. Entry packets that do not meet the requirements or provide false information will be disqualified.

For grant application: <http://lamath.org/travelgrants/>

Applications must be postmarked no later than September 27, 2019.

Send application packet to Beth Smith, 711 Comanche Trail, West Monroe, LA 71291.

Questions may be emailed to Beth Smith at [bethsmith1124@gmail.com](mailto:bethsmith1124@gmail.com).

### 2019 LSTA Travel Grant Awards



LSTA is awarding up to 10 travel grants for \$300 each to offset the expense of attending the LATM/LSTA conference in Baton Rouge. The money can be used to cover conference registration, short course registration, lodging, meals, parking, or travel. Grant applicants will be notified of their status approximately 3 weeks prior to the conference. The money will be awarded at the conclusion of the conference. Awardees must attend the conference through the conclusion of the Tuesday program.

Applications must be submitted no later than 12 midnight on September 29, 2019. The LSTA Awards Coordinator will select a committee of science leaders from throughout the state to score the applications. Order of receipt or geographic location will not necessarily be considered in the awarding of the travel grants. Applicants must be LSTA members on or before August 1, 2019.

Travel grant details and application documents can be found on the website <https://lsta.info/annual-conference>.

Questions can be e-mailed to Jan Graff: [jlgraff@bellsouth.net](mailto:jlgraff@bellsouth.net).

# QSM



## Quality Science and Math Request for Applications

*Do you have a concept you would like  
to teach, but don't have the  
materials?*

**HELP is on the way!**

Who qualifies: Only full-time classroom teachers assigned to teach math or science in K-12 regular education programs in public schools are eligible.

**Submit an application—it's EASY!**

### HOT TIPS

You have until September 15 to determine what you would like to request, write, and submit your application! Start EARLY! Be sure to answer each criteria requested, fully describe what you want to do, and justify your expenditures for your proposed project. Ask a friend/colleague to read your proposal before you submit it to provide helpful feedback.

**The submission deadline is midnight Sept. 15, 2019!**

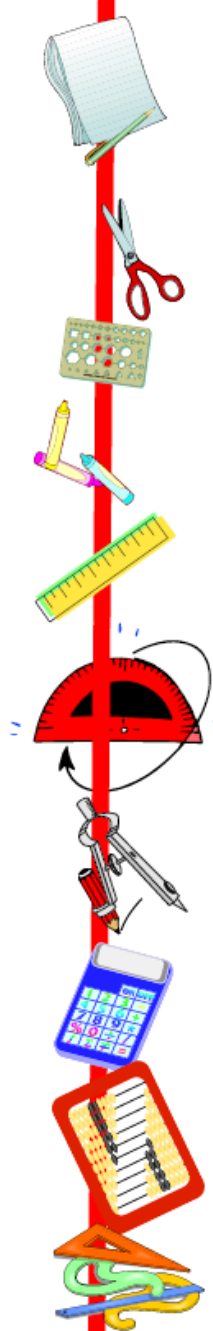
**The award amount is up to \$1,000 for  
NON-Consumable instructional materials!**

Go to the QSM link below and begin your online application. Check out the requirements and number of words allowed per section. Copy/Paste the questions and information you write on your computer so you have your own copy of your proposal with your description, budget, and materials. What happens if you have to stop in the middle of writing the proposal? No problem! You can work on it a little at a time and enter the site frequently. Go to <https://app.reviewr.com/s1/site//QSMGrantProgram%202019> to develop a proposal that will help you teach important concepts!

**Questions?**

Contact Brenda Nixon . [bnixon@lsu.edu](mailto:bnixon@lsu.edu) . 225-205-2680

*Wishing you only the BEST!*





## Register Early to Save \$\$\$



### Early Bird registration:

Postmark your check or P.O. or pay your registration online no later than September 27, 2019 and **save \$50 off the full registration rate**. With the conference registration online payment option, it's now easier to get your early bird payment submitted!

### Pre-registration:

October 25, 2019 is the postmark date for checks and P.O.s or online payments for the pre-registration discount of **\$25 off the full registration rate**.

## Conference Registration Information

*(Registration is not complete until payment is received.)*

**All Registrations are to be completed online at**

**<https://lsta.info/event-3418715/registration>**

Conference registration is complete upon receipt of check, P.O. or credit card payment. Registration rates are based on 1) postmark date of mailed check or P.O. submitted with a copy of your printed registration form, or 2) the online payment date. All cash, check, or P.O. payments after **October 25th** must be made on site.

After the October 25th pre-registration online payment and postmark deadline, regular registration begins. **Registration** will remain open at the regular registration rate, however mail-in payments will no longer be accepted. Cash, check, or P.O. **payments** for registration can *no longer be mailed* and will only be accepted during check-in at the On-site Registration desk. Online credit card **payments** will continue to be accepted until the morning of November 5, 2019, the last day of the conference.

- If paying online, select the ONLINE option and not the MAIL-IN option due to additional transaction fees.
- If paying by check, P.O. or online using a credit card, complete the online form. Do not print an empty form to fill out and mail in. You must complete your registration online.

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- Once the form is completed, click the blue next button to review your registration. From this screen, you can click "invoice me" to have a copy emailed to you and also to print, or you can select "Pay online". ONLY CLICK THE PAY ONLINE BUTTON IF YOU HAVE SELECTED AN ONLINE PAYMENT REGISTRATION OPTION. If you are mailing in your payment, please send the invoice with your check or purchase order.

### **Extended Session Registration:**

Extended sessions can be selected in the registration form if you would like to participate in any of those professional development opportunities.

- Extended session participants must register for the conference by Wednesday, October 18, 2019.
- Select your first choice(s) in the extended session section. Be sure to also select your 2nd and 3rd choices in the correct fields if you are registering for the extended sessions. We will do our best to place you in your first choice, but second and third choices are needed in case your first choice is not available. The earlier your payment is received, the greater the likelihood that you will be placed in your first choice.

### **For those coordinating group registrations:**

- If paying by check, have each individual complete and submit a registration form online, print the invoice that follows, and provide a copy for you to submit with the single payment. Please complete the section in the registration form specifically for check or purchase order payments covering multiple registrants.
- Individuals who registered for events for which the funding agency will not pay, i.e., extended/short course session(s), are to write a personal check made payable to "2019 LATM/LSTA Joint Conference" for the costs of those events and secure it to their registration invoice with a paper clip, not a staple.
- Total the amounts that are covered by the funding agency for all invoices. Submit a funding agency check for the total that is funded by the agency and the printed invoices with attached personal checks from the individuals to the address specified on the invoices.
- Keep a copy of all forms and checks submitted.
- If you need to pay for the group registration by credit card, please contact Registration Chair Nicole Cotten [nmcotten12@gmail.com](mailto:nmcotten12@gmail.com).

Remember, the earlier the payment is postmarked, the greater the discount. All extended session/short course registrations must be postmarked by October 18, 2019. The earlier the payment is received, the more likely it is that the attendee will get their first choice of extended sessions.

For questions regarding registration, e-mail Registration Chair Nicole Cotton at [nmcotten12@gmail.com](mailto:nmcotten12@gmail.com).

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<b>2019 Conference Rates</b>	
<b>Full Conference Early-Bird Registration</b> Save \$50 when compared to Full Conference Registration. Must be postmarked or paid online no later than September 27, 2019.	\$100.00
<b>Full Conference Pre-Registration</b> Save \$25 when compared to Full Conference Registration. Must be postmarked or paid online from September 28 – October 25, 2019.	\$125.00
<b>Full Conference Registration</b> Mail-in payments postmarked after October 25, 2019 will not be accepted. Either pay online at time of registration or hold payment until on-site arrival.	\$150.00
<b>Full-time Non-teaching Undergraduate Student Full Conference Pre-Registration</b> Must be postmarked or paid online no later than October 25, 2019.	
	\$25.00
<b>Full-time Non-teaching Undergraduate Student Full Conference Registration</b> Mail-in payments postmarked after October 25, 2019 will not be accepted. Either pay online at time of registration or hold payment until on-site arrival.	\$30.00
<b>Monday Only Pre-Registration</b> Must be postmarked or paid online no later than October 25, 2019.	
	\$50.00
<b>Monday Only Registration</b> Mail-in payments postmarked after October 25, 2019 will not be accepted. Either pay online at time of registration or hold payment until on-site arrival.	\$75.00
<b>Extended Session – Monday Morning: 8:30 a.m.-11:30 a.m.*</b> *Extended Session participants must register for the Full Conference by October 18, 2019. See pages 10-13 for Extended Session Descriptions.	
	\$25.00



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### Conference Hotel Information



#### Hilton Baton Rouge Capitol Center

201 Lafayette Street  
Baton Rouge, La 70801

To make reservations:

Call 1-800-995- 6962 OR 1-225-344-5866

Group Code: LSMT

OR visit the link below.

[https://www.hilton.com/en/hi/groups/personalized/B/BTRCPHF-LSMT-20191103/index.jhtml?WT.mc\\_id=POG](https://www.hilton.com/en/hi/groups/personalized/B/BTRCPHF-LSMT-20191103/index.jhtml?WT.mc_id=POG)

**Rate: \$119/night    Valet Parking: \$25**

Book by October 13<sup>th</sup> to guarantee rate.

#### Holiday Inn Express – Baton Rouge Downtown

400 North Blvd.  
Baton Rouge, La 70802

To make reservations:

Call 1-225-379-3884

Group Code: MST

**Rate: \$99/night    Self Parking: \$25**

\*breakfast included



### Enjoy LASM for FREE



All attendees of the 2019 LSTA & LATM Joint Conference “STEMulate Your Mind” are invited to explore LASM’s galleries and enjoy unlimited planetarium shows. **Admission is free** during the week of the conference! This offer begins Tuesday, November 5, 2019 at noon. Simply present your conference badge at the front desk and enjoy a day at the Museum on LASM.



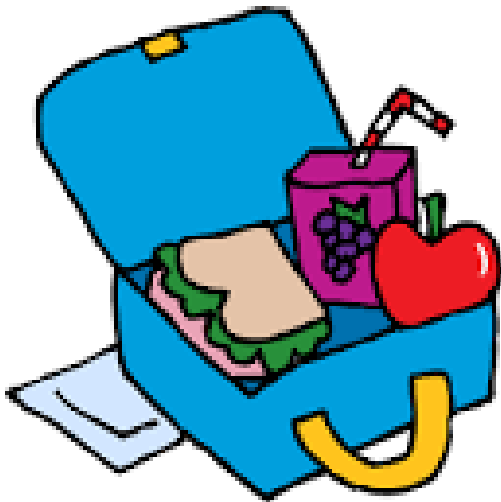
## Grab and Go Lunch Option

Past evaluations found the offer of Grab-n-Go lunches to be greatly appreciated by conference participants. As a result, we will again provide that opportunity. The Committee understands you do not want to miss anything during the day on Tuesday.

When registering conference goers will have their choice of four box lunches, all at the state rate lunch price. You will be able to select, pay and have the lunch shown as part of your registration cost. For those who pay in advance for their lunch, the meal will be picked up in the Convention Center and after “grabbing” their lunch teachers can “go on” to the next session on their agenda without missing a beat.

There will be no need to get a car out of the parking garage (and have to repay when returning), no worry about the weather (will it be raining at lunch time), a perfect convenience if you want to have lunch and visit the exhibits, continue attending sessions or sit with one of the colleagues you see each year at conference time.

Grab-n-Go Lunch options: All options are \$14.00 (state rate lunch allowance) and come with your choice of a 12 oz. soft drink or a bottled water.



1. **Honey Ham and Swiss on Sourdough Bun** with lettuce, tomato along with chips and cookie.
2. **Smoke Turkey and American cheese on Ciabatta Bun** with lettuce and tomato along with chips and cookie
3. **Chef Salad-** ham, turkey, cheddar, swiss, hard-boiled egg, lettuce, tomato, Italian dressing, whole fruit and cookie
4. **Chicken Caesar Salad-** Romaine Lettuce, Garlic Croutons, Shaved Parmesan Cheese, Grilled Chicken and Caesar Dressing with cookie

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## Extended Sessions

### Monday, November 4, 2019 ~ 8:30am - 11:30am

Participants for the extended sessions/short courses must also register for the Full Conference by Friday, October 18, 2019.

#### Things to Remember When Registering for Extended Sessions:

Every effort will be made to honor your first choice. Complete your registration early to improve the chances of securing your first choice. There is a 10-person minimum and 20-person maximum for some extended sessions. If alternate choices are not given and the choices you gave are not available, you will be placed according to your grade level.

### Field Trips (\$25)

#### Monday, November 4, 2019

<p><i>All Day Field trip</i></p> <p><b>8:30-3:30*</b></p> <p><i>Number</i></p> <p><b>1</b></p>	<p><b>LIGO - Black Holes and the STEM Classroom*</b></p> <p><i>William Katzman, Kathy Holt, Tien Huynh-Dinh</i></p> <p>Tour LIGO, which houses the first and most sensitive gravitational wave detector – one of three detectors in the world. Learn how LIGO detects colliding black holes &amp; neutron stars. Explore LIGO’s Science Education Center where you can explore science. Includes a STEM-oriented classroom exploration. Lunch &amp; transportation provided.</p> <p><b>*This is the only full day session and will overlap with some of the afternoon conference sessions and the Exhibitors Kick-Off</b></p>	<p><b>General Interest Science</b></p>
<p><i>Morning Field trip</i></p> <p><b>8:30-11:30</b></p> <p><i>Number</i></p> <p><b>2</b></p>	<p><b>Louisiana Art &amp; Science Museum - Exploring Astronomy</b></p> <p><i>Nita Mitchell, Sheree Westerhaus, Chandra Weathers</i></p> <p>Experience the wonders of the universe in the immersive setting of LASM's state-of-the-art planetarium and portable Discovery Dome. Further explore Earth and Space Science concepts by interacting with the OmniGlobe, a 48" spherical display that projects a multitude of images and animations. Participate in meaningful hands-on activities that will encourage your students to make relevant connections while stimulating their interest in astronomy.</p>	<p><b>General Interest Science</b></p>

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## Morning Sessions (\$25): 8:30AM – 11:30AM Monday, November 4, 2019

Morning Session 8:30-11:30	<b>Think Like an Engineer with Phenomenal Instruction</b> <i>Tom Gantt, Amplify Education</i>	PreK- 8 <sup>th</sup> Both Math & Science
Number <b>3</b>	Egg drop & more! Learn how engineering internships incorporate the Science & Engineering Practices from the Louisiana Standards. Educators will engage with hands-on activities, digital tools, active reading and discussion - integrating phenomena-based instruction around real-world problem solving.	
Morning Session 8:30-11:30	<b>Smart MapSmart Mapping using ArcGIS Online</b> <i>Fran Harvey, Gabriele Richardson, Global Geospatial Institute</i>	3 <sup>rd</sup> – 12 <sup>th</sup> Both Math & Science
Number <b>4</b>	Smart Mapping offers cutting edge STEM technology to students K-12 in Louisiana. It provides parents and teachers support to succeed by introducing high-quality resources (at no cost) and professional development using geospatial technology to develop innovative 21st Century “work ready” citizens.	
Morning Session 8:30-11:30	<b>Customizing Eureka Math for Strategic Instruction</b> <i>Tricia Miller, Lisa Gradney, Great Minds</i>	PreK- 5 <sup>th</sup> Mathematics
Number <b>5</b>	In this session, educators will explore strategies for meeting the various needs of all learners by using the Universal Design for Learning Guidelines and Small-Group Rotation Model. Teachers will be equipped to customize Eureka Math lessons to be engaging, relevant, and accessible while honoring the rigor and coherence of the teaching sequences found in the curriculum. This session is recommended for teachers that have taught <i>Eureka Math</i> for at least one full year.	
Morning Session 8:30-11:30	<b>Building Part-Whole Understanding</b> <i>Asha Meadows, Chelsea LaFont, Great Minds</i>	3 <sup>rd</sup> – 9 <sup>th</sup> Mathematics
Number <b>6</b>	This session for grades 3-9 educators explores the coherence of part-whole relationships using the tape diagram model. Participants practice drawing tape diagrams to model problems and learn how the tool supports students with solving increasingly complex problems. Session discussion centers around using the tape diagram as a tool for making sense of mathematics, along with strategies for building students’ confidence using this model. Participants will gain a better understanding of how tape diagrams represent numerical relationships, and learn how to extend this work to all four operations, including multiplicative comparison and ratios as they lead to systems of equations.	

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## Morning Sessions (\$25): 8:30AM – 11:30AM

Monday, November 4, 2019

Morning Session 8:30-11:30 Number <b>7</b>	<b>Math Trails: Using the City as a Rich Context for Mathematical Inquiry</b> <i>Flannery Denny</i> For middle school students, working in a team to think about patterns, volume, surface area, and estimation while out in the city can bring new energy and connection to the study of math. In this workshop, we will discuss the making of a math trail, go out into the community to experience a short math trail, and then come back together to brainstorm how to connect math trails to curriculum and the communities we teach in.	<b>6<sup>th</sup> – 8<sup>th</sup> Mathematics</b>
Morning Session 8:30-11:30 Number <b>8</b>	<b>Eco-Rise: Classroom Grants and Design-thinking Workshop</b> <i>Brittany Jayroe, EcoRise</i> Explore how EcoRise curriculum, resources, and grant funds can be used to engage K-12 students in environmental literacy, scientific inquiry, and 21st Century skills. Learn how our student driven Eco-Audit Grant process empowers students to solve real-world environmental issues on their campus and in their community.	<b>General Interest Science</b>
Morning Session 8:30-11:30 Number <b>9</b>	<b>Teaching Science to African American Students</b> <i>Charlese Brown</i> African American students show very little interest in science courses. Despite the push for increased STEM courses, African American students seriously lag other ethnicities in science representation. Rates for workforce representation in the sciences remain unaffected in the past 20 years. I share techniques, which have increased science scores, increased students pursuing science as undergraduates, and increased numbers of science persons in the general workforce populations.	<b>PreK-5<sup>th</sup> Science</b>
Morning Session 8:30-11:30 Number <b>10</b>	<b>Wombats at Work</b> <i>Cathi Cox- Boniol, Missy Wooley</i> Participants will engage in an integrated STEM 6E learning cycle lesson that addresses a first grade LSSS. Through the student-centered lesson on wombats, participants will experience an anchoring phenomena routine, children's literature, technology, literacy strategies, and engineering design,	<b>PreK- 2<sup>nd</sup> Science</b>
Morning Session 8:30-11:30 Number <b>11</b>	<b>Teaching Science and STEM with Children's Books</b> <i>Robert Wallace, LSTA/NSTA</i> Literacy and Science are natural partners. Connect them carefully to get great results! Learn how to use both fiction and non-fiction paired with student investigations to engage and increase student achievement.	<b>PreK-5<sup>th</sup> Science</b>



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## Morning Sessions (\$25): 8:30AM – 11:30AM

Monday, November 4, 2019

Morning Session 8:30-11:30	<b>Building School and District Capacity for Science Formative Assessment</b> <i>Page Keeley</i>	3 <sup>rd</sup> -12 <sup>th</sup> Science
Number <b>12</b>	This short course will address how science coordinators and teacher leaders can support others in implementing science formative assessment probes and classroom techniques that help teachers understand what their students are thinking and use the information to make better instructional decisions and will focus on: 1)the research that supports formative assessment; 2)formative assessment resources, tools, and techniques for science; 3)connections to the current vision for science education that is reshaping and shifting instruction; and 4)key message for leaders to engage others and embed formative assessment in teachers' practice throughout their schools and districts.	
Morning Session 8:30-11:30	<b>Teaching Evolution with the LSSS</b> <i>Blake Touchet, Teacher Institute for Evolutionary Science</i>	6 <sup>th</sup> – 12 <sup>th</sup> Science
Number <b>13</b>	This workshop will include a 1-hour discussion of the LS4 Standards and potential curricula covering Evolution and Natural Selection, a 90 minute walk through of hands-on activities, and a 30 minute Q & A session about formative and summative assessments with examples provided.	
Morning Session 8:30-11:30	<b>Talking Trash to Teachers</b> <i>Alma Robichaux, BTNEP</i>	6 <sup>th</sup> – 12 <sup>th</sup> Science
Number <b>14</b>	High School Classroom lessons on Marine Debris and Microplastics.	

## Thank you to our sponsors!

For information on sponsorships, please contact

Trisha Fos [tfos1@lsu.edu](mailto:tfos1@lsu.edu) or Patrice Mire [patricemire16@gmail.com](mailto:patricemire16@gmail.com)

