

**Joint Math and Science Conference – Full STEAM Ahead**  
Shreveport Convention Center October 22-24, 2018



# Pre-Conference Newsletter

## A Message from the LATM and LSTA Presidents

Greetings, Fellow Mathematics and Science Educators.

We are excited to be hosting this year's LATM/LSTA joint conference at the Shreveport Convention Center and are anxious to see everyone October 22-24. 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 experiences, 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.

The exhibits will showcase educational materials and instructional equipment available from commercial distributors and not-for-profit organizations and agencies. The Monday evening exhibits showcase is for all participants and will mark the official opening of the 2018 LATM/LSTA Conference: Full STEAM Ahead!

Please consider sharing your expertise with your peers by submitting a concurrent session proposal. Online submissions are being accepted through August 6th. Details can be found on either organization's website. We hope you plan to join us in Shreveport in October!

Tricia Miller, LATM President

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



Patrice Mire, LSTA President

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



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**Conference Overview (DRAFT)**

**Monday, Oct. 22<sup>nd</sup>**

Extended Sessions and Field Trips: 8:30 – 3:30  
Exhibitor Registration and Set-up: noon – 4:30  
Conference Participant Check In: 5:00 – 7:30 PM  
Exhibits Showcase: 5:00 – 8:00 PM  
Exhibits Reception: 6:00 – 7:30 PM

**Tuesday, Oct. 23<sup>rd</sup>**

Conference begins  
Conference Participant Check In: 7:00 – 4:00  
Exhibit Hall Open: 8:00 AM – 4:00 PM  
Concurrent Sessions: 8:00 AM – 4:00 PM  
Outstanding Educator Awards: 4:15 PM  
Shreveport Aquarium Guided Tour: 6:00 – 8:00 PM

**Wednesday, Oct 24<sup>th</sup>**

Conference continues  
Conference Participation Check In: 7:00 – 9:00  
Exhibit Hall Open: 8:00 AM – noon  
Concurrent Sessions: 8:00 – 12:30

**Dr. Debbie Silver – Extended Session Speaker**



On Monday October 22, 2018, Dr Debbie Silver will present a leadership session, **Supporting Teacher Efficacy: Empowering teachers is key to improving student outcomes.** (extended session #10) Based on her bestselling books, *Fall Down 7 Times, Get Up 8* and *Deliberate Optimism – Reclaiming the Joy in Education*, Dr. Silver offers insights into how leaders can help math and science teachers realize their best professional selves as they focus on what they can control and minimize the effects of the things they cannot. Debbie will discuss the importance of mastery, competence, and the ability to reframe life's circumstances. Laced with her trademark candor and humor, Dr. Silver will provide valuable research information along with practical examples of putting theory into practice.

## ***Joint Math and Science Conference – Full STEAM Ahead*** ***Shreveport Convention Center October 22-24, 2018***

The Louisiana Association of Science Leaders is proud and honored to provide travel support to bring Dr. Debbie Silver to Louisiana's 2018 Joint Mathematics and Science Conference **FULL STEAM AHEAD**.

LCSM and LASL invite their members to select Dr. Silver's Supporting Teacher Efficacy extended session. The organizations do not plan on holding extended sessions during the Monday schedule of the Joint Conference this year to allow math and science leaders, content specialists, and subject coaches the opportunity to attend this session on Empowering Teachers.

### **Accepting Proposals for Concurrent Sessions**

Proposals for 1-hour concurrent sessions to be held on Tuesday, October 23<sup>rd</sup> and/or Wednesday, October 24<sup>th</sup> are now being accepted. Proposals must be submitted via the online form by **August 6, 2018**. 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, visit <https://goo.gl/forms/MFQKg45ztI6AqG9a2>.

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

### **Session Presider Volunteers Needed**

How can an individual help make this conference a success? Consider volunteering as a session presider. In order to protect the integrity of the CLU program, presiders are responsible for distributing the CLUs to those who attend the entire session. Presider volunteers will be assigned to session(s) of their choosing. Many sessions fill quickly. Presiders have the advantage of being guaranteed a seat at the session over which they are presiding! Take advantage of this opportunity and volunteer as a session presider. You may volunteer by marking the days available on the presider line of the registration form and/or contact [conferencepresiders@gmail.com](mailto:conferencepresiders@gmail.com).

You will be contacted approximately two weeks prior to the conference regarding the session(s) for which you would like to preside. Thank you in advance for your help in making this year's LATM/LSTA Joint Conference a success!

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**Travel Grants**

**2018 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 2018 LATM/LSTA Joint Conference in Shreveport on October 22–24, 2018. The money can be used to cover conference registration, short course registration, lodging, meals, parking, and/or travel. 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, 2018. 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 7, 2018.

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).

**2018 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 Shreveport. 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 Wednesday program.

Applications must be postmarked no later than Monday, September 24, 2018. 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, 2018.

Travel grant details and application documents can be found on the website

<http://www.lsta.info/awards>. Questions can be e-mailed to Jan Graff:

[jgraff@bellsouth.net](mailto:jgraff@bellsouth.net). LSTA Travel grant awardees from the past three years are not eligible. LSTA officers, board members, or Travel Grant committee members are not eligible for the grant.

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## Early Bird Registration



Be an Early Bird! Postmark your registration no later than September 22, 2018, and **save \$50 off the full registration rate**. With the conference registration online payment option, it is now easier to get your early bird payment submitted! October 10, 2018 is the deadline for registering if you want to attend an Extended Session/Field Trip.

October 13, 2018 is the last date for the pre-registration discount of **\$25 off the full registration rate**.

After the October 13 pre-registration deadline, online registration will continue at the full registration rate. Online credit card payments will continue to be accepted until the morning of October 24, 2018. However, cash, check, or P.O. payments for registration can no longer be mailed in and will only be accepted during check-in at the conference at the On-site Registration desk.

## Conference Registration Information

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

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

**[www.lsta.info/annual-conference](http://www.lsta.info/annual-conference)**

- Conference registration may be completed by check or credit card. Registration costs are based on 1) postmark date of mailed check or P.O. submitted with a copy of the printed form, or 2) the online payment date. All cash, check, or P.O. payments after **October 13** must be made on site. If paying online, select the ONLINE option and not the MAIL-IN option due to additional transaction fees.
- If paying by check or online using a credit card, complete the online form. (Do not print the online form. Print the invoice page that follows after clicking the blue "Invoice Me" button.) Extended sessions can be selected in the registration form if you would like to participate in any of those professional development opportunities.
- Extended Sessions: Select your first choice(s) in the extended session section. Be sure to also select your 2<sup>nd</sup> and 3<sup>rd</sup> 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

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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.

- 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.

**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 "2018 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 10, 2018. The earlier the payment is received, the more likely it is that the attendee will get their first choices of extended sessions.
- For questions regarding registration, e-mail Registration Chair Nicole Cotten [nmcotten12@gmail.com](mailto:nmcotten12@gmail.com).




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**2018 Conference Registration Rates**

<p><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 22, 2018.</p>	<b>\$75.00</b>
<p><b>Full Conference Pre-Registration</b>                  Save \$25 when compared to Full Conference Registration. Must be postmarked or paid online from September 23 – October 13, 2018.</p>	<b>\$100.00</b>
<p><b>Full Conference Registration</b>                  Mail-in payments postmarked after October 13, 2018 will not be accepted. Either pay online at time of registration or hold payment until on-site arrival.</p>	<b>\$125.00</b>
<p><b>Full-time Non-teaching Undergraduate Student Full Conference Pre-Registration</b>                  Must be postmarked or paid online no later than October 13, 2018.</p>	<b>\$25.00</b>
<p><b>Full-time Non-teaching Undergraduate Student Full Conference Registration</b>                  Mail-in payments postmarked after October 13, 2018 will not be accepted. Either pay online at time of registration or hold payment until on-site arrival.</p>	<b>\$30.00</b>
<p><b>Wednesday Only Pre-Registration</b>                  Must be postmarked or paid online no later than October 13, 2018.</p>	<b>\$25.00</b>
<p><b>Wednesday Only Registration</b>                  Mail-in payments postmarked after October 13, 2018 will not be accepted. Either pay online at time of registration or hold payment until on-site arrival.</p>	<b>\$50.00</b>
<p><b>Extended Session – AM Session*</b></p>	<b>\$15.00</b>
<p><b>Extended Session – PM Session*</b></p>	<b>\$15.00</b>
<p><b>Extended Session – Full Day*</b></p>	<b>\$30.00</b>
<p><b>Full Conference Early-Bird Registration required no later than September 22, 2018.                  Extended Session participants must register for the conference.                  Complete list of extended sessions is located at end of document.</b></p>	

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**Conference Hotel Information**

	Hotel	Distance from Convention Center	Conference Rate	Self-Parking Fees
	<b>Hilton Shreveport</b> 104 Market Street Shreveport, LA 71101 (1-318-698-0900) <a href="https://book.passkey.com/go/2018JointConference">https://book.passkey.com/go/2018JointConference</a>	0.0 miles	1-2 people \$105/nt 3 people \$115/nt 4 people \$125/nt	\$8.00
	<b>Sam's Town Hotel and Casino</b> 315 Clyde Fant Parkway Shreveport, LA 71101 (1-877-429-0711) <a href="http://www.samstowndshreveport.com/math-science-conf">http://www.samstowndshreveport.com/math-science-conf</a>	0.5 miles	\$109/nt (1-2 people)	\$0.00
	<b>Holiday Inn Shreveport Downtown</b> 102 Lake Street Shreveport, LA 71101 (1-318-222-7717) Group name: Louisiana Math and Science Teachers Association	0.7 miles	\$96/nt king or double beds	\$0.00

**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 \$13.00 (state rate lunch allowance).



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**Grab and Go Lunch Choices**



1. Ham sandwich, lettuce and tomato, pasta salad, and cookie with water or soft drink
2. Turkey sandwich, lettuce and tomato, pasta salad, and cookie with water or soft drink
3. Spring salad – baby spinach, mandarin orange segments, and roll with water or soft drink
4. Signature salad – arugula, boiled egg, asiago cheese, sliced black olives, crispy prosciutto, Italian vinaigrette dressing, and roll with water or soft drink

**Extended Session Information and Listings**

**Monday, October 22, 2018**

Participants for the extended sessions/short courses must also register for the Full Conference by Wednesday, October 10, 2018. Participants are required to provide their own transportation to the sessions.

**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.

**All Day Session (\$30): 8:30AM – 3:30PM**  
**Monday, October 22, 2018**

<p><i>All Day</i></p> <p><i>Session Number</i></p> <p align="center"><b>1</b></p>	<p><b>5E Instructional Model to Implement New Louisiana Science Standards</b></p> <p><i>Christina Riley, Stephen Knight, Brandy Jolivette, Beasia Wilson</i></p> <p>The course, 5E instructional model to implement new Louisiana science standards grade 3 – 12, will provide participants with new strategies to support teaching across grade bands and then break into 3<sup>rd</sup>-8<sup>th</sup> and 9<sup>th</sup>-12<sup>th</sup> grade bands to explore sample lessons that can be used in any science classroom. This interactive session will take participants on a journey of Collecting data, facilitating discussions and using Socratic dialogue. Participants will gain a better understanding of how to allow students to choose activities that meet students' learning style with rubrics, investigating with hands-on activities, and presenting using augmented reality or Prezi.</p>	<p align="center"><b>3<sup>rd</sup> – 12<sup>th</sup></b> <b>Science</b></p>
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**Morning Sessions (\$15): 8:30AM – 11:30AM**  
**Monday, October 22, 2018**

<p>Half Day</p> <p>Session Number</p> <p style="font-size: 24pt; font-weight: bold; color: red;">2</p>	<p><b>What if I Fail? Embracing Failure in the Learning Process</b></p> <p><i>Kathy Brandon, Laurie Ilgenfritz</i></p> <p>Failure is an essential element for learning and is key to success in the innovation classroom. Embracing failure develops growth mindset, strengthens perseverance, and nurtures creative thinking, which prepares students for the 21st century. Explore research and activities designed to embrace and facilitate positive failure. We promise, you WILL fail!</p>	<p><b>General Math/Science</b></p>
<p>Half Day</p> <p>Session Number</p> <p style="font-size: 24pt; font-weight: bold; color: red;">3</p>	<p><b>Exploring magnetism with LIGO Science Education staff (Forget what you already know)</b></p> <p><i>Tien Huynh-Dinh, William Katzman - LIGO - SEC</i></p> <p>Participants will rediscover magnetism via hands-on activities. Learn about cultural differences, see how magnetic field lines predict attraction/repulsion, manipulate iron-filings domains, assemble a magnetic shielding device and make a magnetically balanced pencil challenge.</p>	<p><b>General Science</b></p>
<p>Half Day</p> <p>Session Number</p> <p style="font-size: 24pt; font-weight: bold; color: red;">4</p>	<p><b>BRIDGE to STEAM: Building Robust Integrated and 3-Dimensional Gateway Experiences</b></p> <p><i>Cathi Cox-Boniol, Missy Wooley</i></p> <p>K-2 teachers will engage in an integrated 5-E Learning Cycle lesson that includes literature, engineering design, further exploration, and other student-centered strategies. Teachers will experience how three-dimensional lessons that support the Louisiana Student Standards for Science are crafted to extend beyond a single class period and challenge students to extend their learning. Foundation skills are emphasized so that the student learning is a true gateway for future skill building. Resources will be shared to help teachers effectively plan lessons that connect learning across domains while including strong science and engineering practices.</p>	<p><b>Pre-K – 2<sup>nd</sup> Science</b></p>
<p>Half Day</p> <p>Session Number</p> <p style="font-size: 24pt; font-weight: bold; color: red;">5</p>	<p><b>Unpack New Standards with Phenomenal Science Instruction</b></p> <p><i>Tom Gantt – Amplify</i></p> <p>Teachers will unravel the Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts in how they relate to science curriculum design. This session will engage educators with hands-on activities, digital tools, active reading and dynamic discussion with the purpose to design instruction with 3-Dimensional Statements.</p>	<p><b>Pre-K – 8<sup>th</sup> Science</b></p>
<p>Half Day</p> <p>Session Number</p> <p style="font-size: 24pt; font-weight: bold; color: red;">6</p>	<p><b>Museum Strategies for Education with the R.W. Norton Art Gallery</b></p> <p><i>Micah Stewart, Laura Bearden</i></p> <p>The R.W. Norton Art Gallery is not a field trip destination but is instead a learning excursion where teachers and location experts work hand in hand to provide a deeper learning experience for the students. We will be using the MuSE (Museum Strategies for Education) program to show strategies that allow the teacher to take full advantage of rare opportunities that many students may not be afforded at home, to engage and encourage critical thinking, and to make connections to the world around them.</p> <p>Offsite location – participants must provide their own transportation.</p>	<p><b>Pre-K – 8<sup>th</sup> Science</b></p>

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Half Day Session Number <b>7</b>	<b>Foundations in Fractions</b> <i>LaTonya Snell, Ursula Square, Lesley Jeanpierre</i> In this session, educators will gain information on the importance of K-2 instruction in geometry, measurement, and number and operations in base 10 in the mastery of fraction progressions. Educators will actively participate in hands-on learning that span across grades K-5. Door prizes provided.	<b>Pre-K – 5<sup>th</sup></b> <b>Math</b>
Half Day Session Number <b>8</b>	<b>Fluency as a Component of Rigor</b> <i>Lisa Sudduth, Paula Landry – Great Minds</i> The goal of this session is to highlight fluency as a component of rigor. Participants will engage in a variety of fluency activities to showcase the benefits of procedural fluency. They will experience counting exercises, rapid whiteboard activities, and integer games.	<b>6<sup>th</sup> – 8<sup>th</sup></b> <b>Math</b>
Half Day Session Number <b>9</b>	<b>LATM Presents - Essential Math Models: Utilizing Area Models in High School Mathematics</b> <i>Beth Smith, Nicole Schubert Biggs</i> Come experience the idea of visual representation which connects to algebraic expressions and equations through essential math model - area models. Expanding upon the progression of the use of area models used in K-8, participants will then work with area models and discover the connection between then models and the traditional methods of teaching factoring of quadratics, polynomials, completing the square, sum/difference of two cubes and higher, synthetic division, polynomial long division, and much more.	<b>9<sup>th</sup> – 12<sup>th</sup></b> <b>Math</b>

**Afternoon Sessions (\$15): 12:30AM – 3:30PM**  
**Monday, October 22, 2018**

Half Day Session Number <b>10</b>	<b>Supporting Teacher Efficacy</b> <i>Debbie Silver</i> Empowering teachers is key to improving student outcomes. Based on her bestselling books, <i>Fall Down 7 Times, Get Up 8</i> and <i>Deliberate Optimism – Reclaiming the Joy in Education</i> , Dr. Debbie Silver offers insights into how leaders can help teachers realize their best professional selves as they focus on what they can control and minimize the effects of the things they cannot. Debbie will discuss the importance of mastery, competence, and the ability to reframe life's circumstances. Laced with her trademark candor and humor, Dr. Silver will provide valuable research information along with practical examples of putting theory into practice.	<b>General</b> <b>Math/Science</b>
Half Day Session Number <b>11</b>	<b>Louisiana's Environmental Phenomena Database</b> <i>Brian Gautreau, Thomas Gresham – LSU/LEEC</i> The Louisiana Environmental Education Commission has partnered with the Louisiana Dept. of Education and LSU's Gordon A. Cain Center for STEM Literacy to develop a site for educators to access environmental phenomena, and to upload their own. We'll explore 3-D learning using this site as a resource.	<b>General</b> <b>Science</b>

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<p>Half Day Session Number</p> <p align="center"><b>12</b></p>	<p><b>Walter B. Jacobs Memorial Nature Park Field Trips</b></p> <p><i>Lily Jonsek</i></p> <p>Walter B. Jacobs Memorial Nature Park, a Caddo Parish Park, offers field trips as well as programs at your site. All free of charge! Come visit our park to learn about the programs we offer and experience this local gem for yourself.</p> <p>Offsite location – participants must provide their own transportation.</p>	<p><b>General Science</b></p>
<p>Half Day Session Number</p> <p align="center"><b>13</b></p>	<p><b>Number Bonds and Flexible Thinking: Building Skills that Matter</b></p> <p><i>Miko McDaniel – Great Minds</i></p> <p>Join us as we investigate Number Bonds, a versatile tool used to promote flexible thinking and bring meaning to calculations from kindergarten to grade 5 and beyond. In this session, you'll study this part, part, whole model, identify the skills needed to use them successfully, and explore practical strategies designed to develop those skills. Come experience the power of Number Bonds and witness how effective this tool can be in promoting flexible thinking and multiple solution paths.</p>	<p><b>Pre-K—5<sup>th</sup> Math</b></p>
<p>Half Day Session Number</p> <p align="center"><b>14</b></p>	<p><b>Looking in the Mirror: A structured approach for self-reflection</b></p> <p><i>Jamie Hebert, Jennifer Tadlock</i></p> <p>This session focuses on the Instructional Practice Guide (IPG): Coaching Tool as a resource for observation and reflection. The IPG tool is for teachers to build understanding and experience with current standards and aligned instruction. We will review the three instructional Shifts in mathematics. You will experience activities and discussions based on the necessary instructional shifts that will prepare participants to reflect in a structured way.</p>	<p><b>Pre-K – 8<sup>th</sup> Math</b></p>
<p>Half Day Session Number</p> <p align="center"><b>15</b></p>	<p><b>Knowledge is Power</b></p> <p><i>Lori Gerard</i></p> <p>This session will demonstrate how Lafayette Parish School System partnered with ULL to increase the mathematical content knowledge of their middle school teachers by hosting 5-day math institutes during the summer. Come prepared to solve problems.</p>	<p><b>6<sup>th</sup> – 8<sup>th</sup> Math</b></p>

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**Louisiana Science Teachers Association**