**ME by the SEa**

**Conference for STEM Educators**

*June 14, 2019 • Texas A&M University-Corpus Christi*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8–8:40 am</td>
<td>Check-In &amp; Breakfast, CI first floor</td>
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<tr>
<td>8:40–8:55 am</td>
<td>Welcome, CI 138</td>
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<tr>
<td>9–11:50 am</td>
<td>Parallel Sessions, CI &amp; CS rooms</td>
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<tr>
<td>12–1:30 pm</td>
<td>Lunch Speaker: Martha Mcleod, CI 113</td>
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<tr>
<td>1:30–3:20 pm</td>
<td>Parallel Sessions, CI &amp; CS rooms</td>
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<tr>
<td>3:30–4 pm</td>
<td>Business Meeting/Door Prizes/CEUs Awarded, CI 138</td>
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</table>
Vendors please visit our vendors & nonprofit exhibitors—we appreciate their support!
Some sessions take place in Room 107 of the Center for Sciences, the building adjacent to the Center for Instruction.
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<tr>
<th>Time</th>
<th>CI 122 Math/Sci PK–5</th>
<th>CI 126 Science</th>
<th>CI 127 Math</th>
<th>CI 128</th>
<th>CI 102</th>
<th>CI 106 Sci 6–12</th>
<th>CI 107</th>
<th>CI 108 STEM</th>
<th>CI 109</th>
<th>CI 112 Math All Levels</th>
<th>CI 222 Computer Lab Technology</th>
<th>CS 107 or CI 223</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>Hall</td>
<td>Poulson, Evans, &amp; Taylor</td>
<td>Plowman</td>
<td>Coles &amp; Todd</td>
<td>Rhodes</td>
<td>Edwards</td>
<td>Grundy, Shores-Price, Franco</td>
<td>Dennis</td>
<td>Allred</td>
<td>Araiza</td>
<td>Ekici &amp; Alagoz</td>
<td>Guerra</td>
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<td></td>
<td>Storytime STEM</td>
<td>Adapting to the Classroom for Student Engagement and Success PK–2 (90 minutes)</td>
<td>Starting Small with Math Routines PK–8</td>
<td>Informally Speaking: Taking Education outside the Classroom All level</td>
<td>Science/Math Game on: Purposeful Play 3–12</td>
<td>AVIDly Connected to Nature 6–12</td>
<td>Building a Place for All: What is a Legal and Appropriate Accommodation?</td>
<td>Got ELLs? Techno to Grow the Know! All Levels</td>
<td>Speaking Mathematics - Better Self-Talk and Feedback Can Improve Learning. All Levels</td>
<td>Math Circles Every Day in Every Classroom All Levels (90 minutes)</td>
<td>Mathematical Modeling of Sound &amp; Mentoring for Interdisciplinary STEM Learning (90 minutes)</td>
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<tr>
<td>10:00 am</td>
<td>Foster &amp; Brown</td>
<td>Grand &amp; Moore</td>
<td>Duplantis &amp; Ozuna</td>
<td>Johnson &amp; Silva</td>
<td>Martin (Vendor)</td>
<td>Black &amp; Quinones</td>
<td>Gill, Martinez, &amp; Montiel</td>
<td>Jeffery, Phillips, &amp; Garfield</td>
<td>Allred</td>
<td>SIra &amp; Johnson</td>
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<td>No Child Left Inside: Impacts of Outdoor Place-Based Environments on Teaching and Learning</td>
<td>TPWDiscover: Virtual Field Trips to Bring STEM Careers into the Classroom 3–12 (90 minutes)</td>
<td>Escape with Math (Breakout EDU) 3–5</td>
<td>Bell &amp; Whistles: Bell Ringers and Exit Tickets (MS Math)</td>
<td>Mighty (Science) Manipulatives 3–8</td>
<td>Making Middle School Science Lessons Interesting</td>
<td>Educating Students about a Special Report on Climate Change All Levels</td>
<td>Exploring STEAM through Interactive Patterns of Change: Forces and Motion 6–8</td>
<td>AVID Strategies to Build Capacity for Success in College Math All Levels</td>
<td>STEM at SEa: Ocean Exploration</td>
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<tr>
<td>11:00 am</td>
<td>Herron</td>
<td>Dogbey</td>
<td>Jones</td>
<td>Tintera</td>
<td>Salone</td>
<td>Hopkins &amp; Brown</td>
<td>Hopkinson &amp; Brown</td>
<td>de la Rosa</td>
<td>Allred</td>
<td>Silva &amp; Johnson</td>
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<td>“Dive” into Problem Solving Using Children’s Literature PK–2</td>
<td>Fraction Division: An Alternate Approach to Invert-and-Multiply 6–8</td>
<td>Mathematics for the Gifted Student 3–5</td>
<td>Math League Competition Prep and Rules 3–5</td>
<td>Biology Boot Camp 6–12</td>
<td>Keeping Students on Track: Using Ozobots to Enhance Critical Thinking 3–12</td>
<td>Seesaw in the Classroom: Let Them Show What They Know. BYOD. All Levels</td>
<td>Seesaw in the Classroom: Let Them Show What They Know. BYOD. All Levels</td>
<td>AVID Strategies to Build Capacity for Success in College Math All Levels</td>
<td>Middle School CWAP (Centers with A Purpose)</td>
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*in CI 223 *in CI 223 *in CS 107
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<thead>
<tr>
<th>12:00 pm</th>
<th>1:30 pm</th>
<th>2:30 pm</th>
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<tr>
<td><strong>LUNCH</strong></td>
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<td><strong>Keynote</strong></td>
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<tr>
<td><strong>Cherish Your Successes; Never Be Afraid to Take a Chance; Learn from Challenges.</strong></td>
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<tr>
<td><strong>CI 113</strong></td>
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<tr>
<td>featuring <strong>Martha Mcleod</strong></td>
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<td><strong>Science Lab Instructor,</strong></td>
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<td><strong>Fulton Learning Center</strong></td>
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<td>Boxed lunches and drinks may be picked up on the 2nd floor of the CI building. Please join us with your lunch in CI 113 for Mcleod's presentation.</td>
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<tr>
<td><strong>Elizondo, Jones, &amp; Salinas</strong></td>
<td><strong>Boleware (Vendor)</strong></td>
<td><strong>Cuyler</strong></td>
<td><strong>Muniz, Vega, &amp; Rector</strong></td>
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<tr>
<td>Math Stations for Struggling Students</td>
<td>Simple Centers, Seriously? 3–8</td>
<td>Colors, Chants, &amp; Get up and Move around! Combating Difficulties with Exponential Expressions. 9–12</td>
<td>How Interactive is Your Classroom? All Levels</td>
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<tr>
<td><strong>Silva</strong></td>
<td><strong>Brown &amp; Johnson</strong></td>
<td><strong>Medrano</strong></td>
<td><strong>Cloud, Coates, Pardom, Salinas</strong></td>
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<td>For the Love of Science Fairs K–5</td>
<td>Hate to Love. How to Have Success in the Classroom. All Levels</td>
<td>Money for Your Classroom All Levels</td>
<td>Educators’ Happy Hour: What They Didn't Teach You about Teaching</td>
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<td><strong>Ray</strong></td>
<td><strong>Gill (Vendor)</strong></td>
<td><strong>Hopkins</strong></td>
<td><strong>Grundy, Shores-Price, &amp; Franco</strong></td>
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<tr>
<td>Finding Your Sea People: An Exploration in Uncharted Waters 3–5</td>
<td>Global Issues 6–12</td>
<td>Everything You Want to Know about Being a National Board-Certified Teacher. All Levels</td>
<td>2nd Building a Place for All - And There is Still More!</td>
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<td><strong>Mallory (Vendor)</strong></td>
<td><strong>McQueen</strong></td>
<td><strong>Guerra</strong></td>
<td><strong>Muniz, Vega, &amp; Rector</strong></td>
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<td>Thinking beyond Solving Problems 5–12</td>
<td>Design, Develop, Differentiate: Virtual Learning Environment All levels</td>
<td>iTeach with Tech: Shake it up with the SAMR Model. BYOD. All levels</td>
<td>How Interactive is Your Classroom? All Levels</td>
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<td><strong>Green &amp; Galloway</strong></td>
<td><strong>Cloud, Coates, Pardom, Salinas</strong></td>
<td><strong>Guerra</strong></td>
<td><strong>Wilson (Vendor)</strong></td>
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<td>Biozobots: Using Robots to Engage Students in Biology 9–12</td>
<td>Educators’ Happy Hour: What They Didn’t Teach You about Teaching</td>
<td>Where’s the “On” Button? TI-Nspire CX for Absolute Beginners</td>
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<td><strong>Campos &amp; Gidrey</strong></td>
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<td>For the Love of Science Fair 6–12</td>
<td>Educators’ Happy Hour: What They Didn’t Teach You about Teaching</td>
<td>iTeach with Tech: Shake it up with the SAMR Model. BYOD. All levels</td>
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<td>Hands-on Learning with a Variety of Tech Items All Levels</td>
<td>Everything You Want to Know about Being a National Board-Certified Teacher. All Levels</td>
<td>iTeach with Tech: Shake it up with the SAMR Model. BYOD. All levels</td>
<td><em>in CS 107</em></td>
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<td><strong>Wilson (Vendor)</strong></td>
<td><strong>Hopkins</strong></td>
<td><strong>Guerra</strong></td>
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<td>What’s New at Texas Instruments Now</td>
<td>Everything You Want to Know about Being a National Board-Certified Teacher. All Levels</td>
<td>iTeach with Tech: Shake it up with the SAMR Model. BYOD. All levels</td>
<td><em>in CS 107</em></td>
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<td><strong>Grundy, Shores-Price, &amp; Franco</strong></td>
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<td><em>in CS 107</em></td>
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**CCTM Meeting & Door Prizes**

**CI 138**

Join us for a short business meeting with elections, door prizes, and certificates for professional development hours.

- Please fill out the evaluation located at me.tamucc.edu, or scan this QR code to access the evaluation directly:

![QR Code](https://example.com/cctm)

- Please help us recycle your name badges in the box provided.

Note: Professional development (CEU) certificates will be available at the end of the meeting.
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
<th>Grade(s)</th>
<th>Course/Room</th>
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<tr>
<td>9:00 am</td>
<td>Storytime STEM</td>
<td>Ms. Sonia Hall</td>
<td>PK-2 STEM</td>
<td>CI 122</td>
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<td>He will huff and he will puff, but can he blow your house down? Educators will explore ways to incorporate STEM into story time. Science, Math and Engineering are everywhere!</td>
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<td>Adapting to the Classroom for Student Engagement and Success</td>
<td>Ms. Nicole Poulson, Ms. Kristin Evans, &amp; Ms. Amanda Taylor</td>
<td>PK-2 Science</td>
<td>CI 126</td>
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<td>Exploration of unique nature-based lessons and activities for Pre K-2 students that are adaptable for the classroom setting. Lessons support STEAM and STREAM learning, align to TEKS, and can be implemented inside or outside the classroom. Participants will learn about, and engage in, a range of nationally recognized and awarded activities. This session will be hands on, informative, and interactive.</td>
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<td>Starting Small with Math Routines</td>
<td>Dr. Debra Plowman</td>
<td>PK-8 Math</td>
<td>CI 127</td>
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<td>Changing math class to a student-centered, problem-solving community is a challenging task for many teachers and their students. Starting small with math routines can lead to big changes. Math routines are short tasks that the class completes together, discussion-style. Routines take 10 to 15 minutes and are easily modified to fit grade levels and math goals. Routines support equitable discussion practices, are 'open-middle' (all students have an opportunity to participate problem solving, because the problem has multiple entry and exit points), and support vocabulary and academic language development. Teachers will learn that routines such as Bursts, Which One Doesn't Belong, Guess My Rule, True or False Equations and more are fun and engaging and feel more like games more than problems.</td>
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<td>Informally Speaking: Taking Education outside the Classroom</td>
<td>Ms. Sarah Coles &amp; Ms. Alyce Todd</td>
<td>All Levels Science, Tech &amp; Math</td>
<td>CI 128</td>
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<td>We all evolve through our time as teachers. Sometimes you can't wait to head in to the classroom and share your knowledge. Sometimes it seems that the classroom isn't the quite the right fit for you or your philosophy of education. In this session learn about informal education and options for education outside the classroom. Join Alyce Todd from the Texas State Aquarium and Sarah Coles of the Informal Science Educators Association to learn how they ended up where they are and how you can change your course in the world of education.</td>
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<td>Game on: Purposeful Play</td>
<td>Ms. Jane Lee-Rhodes</td>
<td>3-12 Science &amp; Math</td>
<td>CI 102</td>
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<td>Tired of the same old review strategies? Learn how to use review games and effectively incorporate reflection strategies that turn your game-based review into purposeful play. You will leave with the resources you need to make content-based games and student reflection strategies to make the games worthwhile.</td>
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<td>AVIDly Connected to Nature</td>
<td>Ms. Lari Jo W. Edwards</td>
<td>6-12 Science &amp; Tech</td>
<td>CI 106</td>
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<td>AVID helps teachers shift from delivering content to facilitating learning. Come see how a partnership between a Nature Center and the AVID Program can better connect your students to nature while resulting in inquiry-based and student-led learning. Students gain communication, team building, and presentations skills while collaborating on projects.</td>
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**Building a Place for All: What is a Legal and Appropriate Accommodation?**

Ms. Lola Grundy, Ms. Heather Shores-Price, & Ms. Elva Franco

All Levels Science & Math  CI 107

As we are increasingly faced with the requirement of accommodating for the individual needs of students with different abilities, how do we determine what is the right level of accommodation to ensure our students with Low-Incidence Disabilities are receiving an equal and appropriate education in the general education classroom? Let us show you how to find answers.

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**Got ELLs? Techno to Grow the Know!**

Ms. Tracy Dennis

All Levels Science, Technology, & Math  CI 108

English language learners (ELLs) struggle to keep up with the fast pace curriculum. Learn about free online resources that will support ELLs in the science and math classrooms.

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**Speaking Mathematics - Better Self-Talk and Feedback Can Improve Learning.**

Dr. Polly Allred

All Levels Science, Technology, & Math  CI 109

This session focuses on how we speak about mathematics, because how we speak to ourselves and others affects what we are able to learn. We will unpack the impact of self-talk, and learn how to change negative self-talk. We will learn how and when to give effective verbal feedback to our students.

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**Math Circles Every Day in Every Classroom**

Ms. Karina Araiza

All Levels Math  CI 112

This session will focus on three areas: why and how to transform our classrooms to be more about mathematics serving the student and not the other way around; understanding the components of a challenge-based classroom through mathematical modeling, group-worthy tasks, and math circles; and participating in a math circle and being encouraged to try it for themselves in their own classrooms.

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**Mathematical Modeling of Sound & Mentoring for Interdisciplinary STEM Learning**

Dr. Celil Ekici & Mrs. Cigdem Alagoz

All Levels STEM  CI 222

Mathematical modeling is a joint practice for interdisciplinary STEM learning, as one of the Standards of Mathematical Practice. Participants will engage in modeling activities on sound and discuss the development & assessment of modeling competencies in 7-14. Opportunities for further engagement will be presented to mentor students participating in modeling competitions.

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**Coding is Cool: Unleashing Creativity**

Dr. Jessica Guerra

PK–5 Technology  CI 223

Learn how to implement and integrate Scratch, an Instructional Technology (IT) block-based coding tool, within your classroom and/or campus. Scratch is a beginners' block-based coding program and allows teachers and students to create their own interactive stories, games, and animations. By implementing Scratch, students will learn to think creatively, reason systematically, and work collaboratively – essential skills for our 21st Century learners. This session will offer an introduction to Scratch and provide step-by-step guidance to help support educators on how to implement and integrate in their classroom and/or on their campus. BYOD (Bring Your Own Device) for a hands-on approach.
<table>
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<tr>
<td>10:00 am</td>
<td><strong>No Child Left Inside: Impacts of Outdoor Place-Based Environments on Teaching and Learning</strong>&lt;br&gt;Dr. Andrea Foster &amp; Dr. Lisa Brown  PK–2 Science  CI 122 &lt;br&gt;This session provides an opportunity for participants to put away their electronic devices and pick up a good old-fashioned hula hoop to explore the power of outdoor teaching and learning. Emphasis will be on the NGSS 3-dimensional and place based learning. Hula hoops and outdoor fun will be provided!</td>
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<td><strong>Escape with Math (Breakout EDU)</strong>&lt;br&gt;Ms. Karen Duplantis &amp; Ms. Laura Ozuna  3–5 Math  CI 127 &lt;br&gt;Escape with Math/Breakout EDU is a collection of re-settable locks, boxes, and items that can be used to play immersive learning games. The concept is based on the premise of an escape room. Students will incorporate critical thinking, collaboration, creativity, and communication skills to solve problems. The primary objective of Escape Math is to motivate students to be more engaged in their learning. This will allow students the opportunity to be involved in math talk, learn how to see the others’ points of view.</td>
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<td><strong>Bell &amp; Whistles: Bell Ringers and Exit Tickets</strong>&lt;br&gt;Dr. Lana Johnson &amp; Dr. Melana Silva  6–8 Math  CI 128 &lt;br&gt;Need a way to get your students ready for your class or check to see if they understand what was taught during your class, well this is the ticket. Activities provided for middle school math grade 6, 7, &amp; 8.</td>
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<td><strong>Mighty (Science) Manipulatives</strong>&lt;br&gt;Ms. Rosemary Martin (Vendor)  3–8 Science  CI 102 &lt;br&gt;Are you engaging your students in student-centered activities that challenge them to think at high levels and use their vocabulary and organizational skills? Come see how these manipulative resources for learning, reviewing, tutoring or assessing can work for you!</td>
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<td><strong>Making Middle School Science Lessons Interesting</strong>&lt;br&gt;Ms. Melissa Black &amp; Ms. Cynthia Quinones  6–8 Science  CI 106 &lt;br&gt;Explore interesting ways of presenting middle school science TEKS to engage your students.</td>
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<td><strong>Educating Students about a Special Report on Climate Change</strong>&lt;br&gt;Dr. Puneet Gill, Ms. Martinez, &amp; Ms. Montiel  All Levels Science  CI 107 &lt;br&gt;The report <em>Global Warming of 1.5 degrees Celsius</em>, by the Intergovernmental Panel on Climate Change, indicates that sustainable development is tied to the eradication of poverty, having food security, and addressing social inequality through participatory decision making. Learn how educators can address social inequality by making science accessible to K-12 students through demonstrations, accessible scientific language, and participatory decision making.</td>
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<td><strong>Exploring STEAM through Interactive Patterns of Change: Forces and Motion</strong>&lt;br&gt;Dr. Tonya Jeffery, Dr. Marianna Phillips, &amp; Dr. Theresa Garfield  6–8 STEM  CI 108 &lt;br&gt;Patterns of Change: Forces and Motion is an integrated science lesson that uses the 5E lesson cycle to tie science with language arts, mathematics, literature, technology, engineering, and social studies in an engaging format applicable for young learners. Get ideas for using hands-on minds-on activities to foster inquiry and discussion, while engaging students to use technology as a learning tool. This lesson has been used on the elementary level to teach students about the forces that have an effect on motion.</td>
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**STEM at SEa: Ocean Exploration**  
Ms. Kimberly Moore  
All Levels STEM  
CI 223

Set sail aboard the Nautilus E/V, a research & education vessel that uses cutting-edge technology, including underwater robots, to map the ocean floor. Explore TEKS-aligned interdisciplinary STEM curriculum that allows students to interact with scientists and engineers currently on expeditions in the Pacific Ocean and learn about STEM career pathways. Ms. Moore will share about her recent voyage aboard this ship led by Dr. Robert Ballard, the oceanographer who discovered the Titanic.

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**10:30 am**

**TPWDiscover: Virtual Field Trips to Bring STEM Careers into the Classroom**  
Ms. Holly Grand & Ms. Juliana Moore  
3–12 Science  
CI 126

All students deserve to explore science and careers in the classroom, in field investigations, and in the real world. Texas Parks and Wildlife Department is using virtual field trips to bring STEM professionals to the classroom with the click of a button.

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**11:00 am**

**“Dive” into Problem Solving Using Children’s Literature**  
Dr. Julie Herron  
PK–2 Science & Math  
CI 122

Learn how to “dive” into problem solving instruction for young children. Children’s literature is a surefire way to engage your young learners in mathematical problem solving. This session will explore different problem-solving structures that are in the TEKS and demonstrate how to use children’s literature to teach these standards. Participants will have an opportunity to develop math word problems for the classroom using popular children’s literature.

**Mathematics for the Gifted Student**  
Ms. Kimberly Jones  
3–5 Math  
CI 127

See how to differentiate math instruction for gifted students to best meet their interests, abilities, and backgrounds. A sample lesson about real-life mathematics applications with integrated opportunities for cross-curricular inquiry will be explored. Participants will leave with a lesson that can be implemented immediately in their classrooms.

**Fraction Division: An Alternate Approach to Invert-and-Multiply**  
Dr. James Dogbey  
6–8 Math  
CI 128

Fraction division is difficult for students, as well as many teachers. Often, this confusion stems from students’ use of “rules without reasons” (Skemp, 1976, p. 9). Ball (1990) reports that teachers’ knowledge of fraction division is often limited to the invert-and-multiply procedure, which restricts their ability to provide a conceptual explanation of the procedure in their teaching. This presentation will explore the use of common denominator for developing conceptual meaning for fraction division. The session will also highlight the values of the common denominator algorithm in enhancing students’ and teachers’ conceptual understanding of fraction division.

**Math League Competition Prep and Rules**  
Dr. Charlene Tintera  
3–5 Math  
CI 102

This session will help prepare teachers to train students for the upper level math contests. The presenter has helped top-scoring students at qualifying meets held throughout the year who are invited to compete at their state’s championship in late April or early May, and winners of the state championships will be invited to the national championship in June.
**Biology Boot Camp**  
Ms. Yalanda Salone  
6–12 Science  
CI 106  
“Boot Camp” provides student support, as well as remediation for Biology EOC preparation using 3 different stations: ‘Lieutenant’, ‘team bunkers’ and ‘battle stations. You will rotate through a set of activity stations to review past concepts, vocabulary and level up from private to Lt. General using pre/post-test assessments.

**Keeping Students on Track: Using Ozobots to Enhance Critical Thinking**  
Dr. Cynthia Hopkins & Ms. Megan Brown  
3–12 Science  
CI 107  
Using Ozobots will help students enhance their critical thinking by learning to code. Ozobots are inexpensive robots that students can code using color or an online free program. Come learn tips and tricks on how to incorporate them into the classroom. This is a hands-on session. Teachers will walk away with all the handouts.

**Seesaw in the Classroom: Let Them Show What They Know. BYOD.**  
Ms. Ida de la Rosa  
All Levels Science, Technology, & Math  
CI 108  
Seesaw is a student-driven digital portfolio enabling teachers to empower students to create, reflect, share, and collaborate. Students are able to “show what they know” using drawings, photos, videos, links, and PDFs. Teachers will be able to leave the session equipped with training to begin implementing the program from the session.

**AVID Strategies to Build Capacity for Success in College Math**  
Dr. Polly Allred  
All Levels STEM  
CI 109  
Increasing numbers of first time in college (FTIC) students enroll each semester. Most of them and their families are unfamiliar with academic culture. In this session we will present and model AVID strategies that K-12 teachers can actively employ and teach to prepare students for success in college.

**Engaging Secondary Students in Science through Manipulatives online “PhET” Simulations**  
Mr. Christoffer Becho  
6–12 Science  
CI 222  
PhET simulations are online manipulative programs designed to help students explore various concepts. Based on the subject matter the attendees teach, this session will go over various biology, chemistry, physics, and earth & space simulations that can be used in the classroom.

**Middle School CWAP (Centers with A Purpose)**  
Dr. Melana Silva & Dr. Lana Johnson  
6–8 Math  
CS 107  
Discover how middle school math teachers can incorporate centers into their classroom. Activities and a rotation method will be shared.

**1:30 pm**

**Math Stations for Struggling Students**  
Ms. Andrea Elizondo, Ms. Kimberly Jones & Ms. Diana Salinas  
3–8 Math  
CI 122  
This session will model four math stations and math talk provided at a summer math camp for rising 6th graders, which allowed educators to deliver differentiated practice and assessment opportunities for students with different learning styles and at various levels of academic instruction.
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<th>Title</th>
<th>Presenter/Authors</th>
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<td>For the Love of Science Fairs: Making Science Fair Meaningful at the Elementary Level</td>
<td>Dr. Melana Silva</td>
<td>K–5 STEM</td>
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<td>Finding Your Sea People: An Exploration in Uncharted Waters</td>
<td>Dr. Amy Ray</td>
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<td>Thinking beyond Solving Problems</td>
<td>Ms. Kelli Mallory (Vendor)</td>
<td>5–12 Math</td>
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<td>Biozobots: Using Robots to Engage Students in Biology</td>
<td>Dr. Marybeth Green &amp; Dr. Cyndy Galloway</td>
<td>9–12 Science &amp; Technology</td>
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<tr>
<td>For the Love of Science Fairs: Making Science Fair Meaningful at the Secondary Level</td>
<td>Mrs. Christina Campos &amp; Ms. Chanta Gidrey</td>
<td>6–12 STEM</td>
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<tr>
<td>Hands-on Learning! Come Interact with a Variety of Technology Items</td>
<td>Ms. Rachel Medrano</td>
<td>All Levels Science, Technology, &amp; Math</td>
<td>CI 107</td>
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<tr>
<td>What's New at Texas Instruments Now</td>
<td>Mr. Robb Wilson (Vendor)</td>
<td>STEM</td>
<td>CI 108</td>
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Science Fair is an exciting experience bringing together students, families and their communities. Science Fair supports scientific literacy. In this session you will get an overview of Science Fair and better understand how to support students to choose and conduct meaningful projects appropriate for their grade level and interest.

Explore non-traditional math tasks with the goal of promoting multiple solution pathways, flexible problem solving, and the value of discovering rich math task opportunities in perhaps previously uncharted waters!

Solving problems happens routinely, but getting students to problem solve, reason, and connect concepts is much harder. This session will focus on ways to get students to probe deeper, think differently, and analyze mathematical concepts that can be easily incorporated into routine instruction and make learning anything but routine.

Some students have a hard time understanding biology concepts at the molecular level. This hands-on workshop will demonstrate a technique piloted at TAMUK where Ozobot robots facilitated students’ understanding of these complex concepts.

Science Fair is an exciting experience bringing together students, families and their communities. Science Fair supports scientific literacy. In this session you will get an overview of Science Fair and better understand how to support students to choose and conduct meaningful projects appropriate for their grade level and interest.

Want to bring technology into your class? Today, we will interact with Ozobots, Mini Spheros, Makey Makey, microbits, and Chromebooks to bring various topics to life. I've used several of these items in my middle school classroom and I can show you how to bring them into a kindergarten class.

This presentation will provide an update of the latest resources from Texas Instruments featuring support materials at www.education.ti.com. Learn about 1000+ free calculator activities, coding lessons, tutorials, SAT and ACT test prep information, and online webinar opportunities. Also, check out TI's STEM offerings including TI latest STEM projects for after-school clubs and summer camps.
### 2nd Building a Place for All - and There is Still More!
**Ms. Lola Grundy, Ms. Heather Shores-Price & Ms. Elva Franco**

All Levels Science & Math   CI 109

Students with disabilities are expected to learn grade-level appropriate content. Accommodating texts to deliver the content is a skill we are faced with developing. Walk away with the beginnings of an accommodated book that you can put in the hands of a student in your classroom.

### iTeach with Technology: Shake it up with the SAMR Model. BYOD
**Dr. Jessica Guerra**

All Levels Technology   CI 222

When integrating technology in your presentations, it can be difficult to know where to start or how to do so effectively. Dr Ruben Puentedura’s SAMR Model, which stands for Substitution, Augmentation, Modification, and Redefinition, is a great way to evaluate the kind of technology use in your presentations and to guide you to make them even better. We will explore the four different levels of the SAMR model and showcase technology tools that can easily be embedded within any and all presentations for audience engagement and collaboration.

### Motivate Girls to Pursue STEM Careers
**Ms. Mayra Alvarado Ramirez**

6–8 Science   CS 107

Learn teaching strategies to motivate girls to be active participants in STEM classes. Fun hands-on science inquiry activities on the topics of matter, force, motion & energy will be included.

### 2:30 pm

### Simple Centers, Seriously?
**Mr. Jeff Boleware (Vendor)**

PK–5 Math   CI 122

Preparation, classroom management and differentiation can all make using centers a challenge. Come learn new strategies and share ideas to make center learning meaningful for students and realistic for teachers. See new tools from hand2mind to engage your students. Get free manipulatives you can start using in class right away!

### Colors, Chants, & Get up and Move around! Combatting Difficulties with Exponential Expressions
**Ms. Elizabeth Cuyler**

9–12 Math   CI 126

Many students experience difficulty and confusion when trying to learn how to rewrite exponential expressions as logarithmic expressions and vice versa. This presentation offers the instructor a fun strategy to overcome this challenge utilizing color, chants, and moving around, catering to several learning styles in a single teaching session.

### Acing Algebraic Reasoning with Anchor Charts
**Ms. Sheila Roberts**

3–5 Math   CI 127

Learn how to create effective, engaging, interactive, anchor charts designed to address the needs of all students, from scaffolding of instruction to enrichment of higher order reasoning techniques.
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<td>Hate to Love: How to Have Success in the Classroom</td>
<td>Ms. Elsa Brown &amp; Ms. Andrea Johnson</td>
<td>All Levels Math</td>
<td>Success in the classroom means starting where they are, but how? Do I have time?</td>
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<tr>
<td>Global Issues</td>
<td>Mr. Miguel Gil (Vendor)</td>
<td>6–12 Science &amp; Engineering</td>
<td>Bringing World Issues into Focus for All Students</td>
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<tr>
<td>Money for Your Classroom</td>
<td>Ms. Rachel Medrano</td>
<td>All Levels</td>
<td>Over the past 3 years, I’ve secured donations through DonorsChoose to buy interactive supplies for my classroom including Chromebooks, robotics kits, calculators, headphones, and much more. Learn how to get started.</td>
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<tr>
<td>Everything You Want to Know about Being a National Board-Certified Teacher</td>
<td>Dr. Cynthia Hopkins</td>
<td>All Levels</td>
<td>Learn how to become a National Board Certified Teacher (NBCT). Being a NBCT helps teachers to be a more reflective practitioner; therefore, increasing student achievement.</td>
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<tr>
<td>Design, Develop, Differentiate: Virtual Learning Environment</td>
<td>Dr. Jaime McQueen</td>
<td>All Levels STEM</td>
<td>Get training and examples for designing, developing, and implementing Virtual Learning Environments/Tools to promote differentiated instruction and achievement for special learning populations (e.g., gifted and talented and special education students) in STEM subjects.</td>
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<tr>
<td>Educators' Happy Hour: What They Didn't Teach You about Teaching</td>
<td>Ms. Cloud, Ms. Coates, Ms. Pardom, &amp; Ms. Salinas</td>
<td>All Levels</td>
<td>Pre-service teachers: Get real answers from veteran teachers about things you don't learn in school. How do you motivate students? How do you motivate yourself? What do you need to know about interacting with parents? How do you build trust and set up a healthy classroom environment?</td>
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<tr>
<td>How Interactive is Your Classroom?</td>
<td>Ms. Yazmin Muniz, Ms. Sonia Vega, &amp; Ms. Kaileigh Rector</td>
<td>All Levels Science, Technology, &amp; Math</td>
<td>Engage, motivate, and excite your students using online tools. In this session, participants will be shown how to incorporate Kahoot, Quizizz, Quizlet, and Nearpod to teach, review, and assess.</td>
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<tr>
<td>Where's the “on” Button? TI-Nspire CX for Absolute Beginners</td>
<td>Mr. Robb Wilson (Vendor)</td>
<td>6–12 STEM</td>
<td>Explore basic features of the TI-Nspire CX handheld to support classroom instruction of the TEKS. Become familiar with the built-in applications and learn to navigate. Truly for beginners. Handhelds will be provided. This technology is acceptable for the STAAR Algebra I EOC, STAAR Math Grade 8, PSAT/NMSQT, SAT, ACT, IB, and AP exams.</td>
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</tbody>
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