

# CAST24

*Everything's Connected*

Presented by



**STAT** SCIENCE TEACHERS  
ASSOCIATION *of* TEXAS

San Antonio | November 14–16

# Dynamic Science

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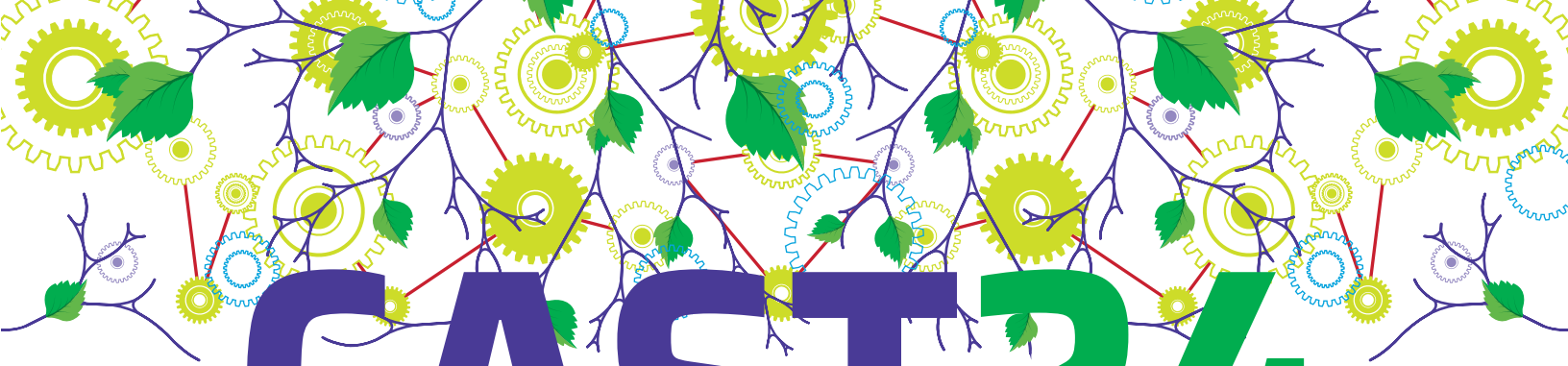
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  - TEKS Lesson Videos
- Science Literacy e-Book Bundles
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## Contents

Welcome Letter	5	45	Friday at-a-Glance Schedule
About STAT	7	47	Friday Extended Sessions
STAT Leadership	8	49	Friday Workshops
Conference Schedule	10	63	Saturday at-a-Glance Schedule
General Conference Information	11	65	Saturday Extended Sessions
Award Recipients	14	67	Saturday Workshops
STAT Affiliates	15	76	Maps
STAT Chats	28	78	Exhibitor Index
Thursday at-a-Glance Schedule	30	80	STAT Staff
Thursday Extended Sessions	32	81	STAT Past Presidents
Thursday Workshops	33	82	Professional Development Form



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**Kiki Corry**  
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**O**n behalf of the Science Teachers Association of Texas (STAT) Executive Board and Staff, welcome to the 2024 Conference for the Advancement of Science Teaching (CAST), presented by STAT.

STAT knows how passionate you are about teaching our future discoverers, and as the largest and longest-established science teachers association in Texas and the only general science education association in the state, STAT has the tools you need to change lives as a science educator in Texas.

STAT is a passionate community dedicated to science teaching and learning, and at no place is that more evident than at CAST—where you can connect with thousands of dedicated teachers like you from across the state, grow as an educator, and inspire your students to discover the world through science.

The CAST24 planning team, led by Chair Kiki Corry, STAT 2022–2023 President, has worked hard to design an amazing conference where you'll learn new concepts and strategies that you can immediately bring back to your classroom. We are grateful to the many volunteer presenters who contributed their ideas and efforts to make CAST24 meaningful and memorable. We're also excited about our inspiring keynote speaker, Mark Scharenbroich, as well as innovative and inspiring programming, including tracks focused on implementing the revised Science TEKS and leveraging three-dimensional learning.

This conference guide is designed to provide a framework for all the varied CAST programming. For an in-depth look at sessions and the most up-to-date information, we encourage you to rely on the STATCAST mobile app, where you'll find detailed, timely information about the workshops, extended sessions, and other important happenings. The app will help you navigate the conference and allow you to personalize your experience!

Whether you're a science teacher, education leader, or elementary teacher who happens to teach science, STAT is for you. As a member of STAT, you are part of a community of thousands of educators and science advocates from all grade levels and disciplines, including elementary education, environmental science, earth science, biology, chemistry, informal science, and physics in K–12, university, and informal settings.

Thank you for your contributions to build our science community and for choosing STAT as your partner in your journey as a science educator.

We hope you'll take the next few days to connect with new ideas, innovative teaching strategies and resources, and science educators from all corners of Texas.

# Explore Our **Digital Modeling Hub!**

Combine Physical & Digital Learning Tools to Engage Students



Our **Digital Modeling Hub** seamlessly integrates into your lessons, enriching existing curricula with its versatile toolkit:



## Augmented Reality Modules

Students *model science concepts beyond the limitations of physical models with interactive AR.*



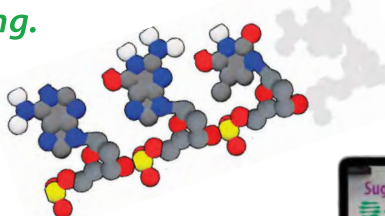
## Protein Exploratoriums

Students begin *protein visualization without learning Jmol coding.*



## Interactables

Web-based *click, drag, and drop activities.*



## Short Content Videos

Help learners *think more deeply about a molecular bioscience topic.*



**Field Test Price \$100 per Educator**  
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The **Science Teachers Association of Texas (STAT)** connects and inspires science educators through professional development, networking, advocacy, and its signature annual event, the **Conference for the Advancement of Science Teaching (CAST)**. CAST is attended by thousands of science educators and advocates each year.

Formally organized in 1957, STAT serves science educators of all disciplines and grade levels, including elementary education, environmental science, earth science, biology, chemistry, informal science, and physics in K–12, university, and informal settings.

STAT members are committed to science and the belief that science helps students understand the world, and STAT is committed to maintaining the highest levels of science education in Texas schools for all science educators.

## MISSION STATEMENT

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The mission of the Science Teachers Association of Texas (STAT) is to build a community dedicated to advancing science teaching and learning.

## VISION STATEMENT

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The vision of the Science Teachers Association of Texas (STAT) is to establish STAT as a resource for science education so that all students are scientifically and technologically literate, responsible, and productive citizens.

## STAT MEMBERSHIP BENEFITS

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Members of STAT enjoy access to a variety of professional resources and benefits, including:

- Registration discounts to events, virtual programming, and the Conference for the Advancement of Science Teaching (CAST) presented by STAT.
- STAT365—your virtual science education community where you can ask questions, engage in conversations, share resources, discover innovative strategies, and inspire and be inspired by your peers—at whatever time works best for you.
- STAT STUDIO—your dedicated channel to explore new ideas and learn directly from your Texas science education community through interviews, teacher spotlights, the science misconception-busting 'Funny You Should Think That' series, and more.
- Up-to-date information, alerts, and ways to implement the newly adopted Science TEKS.
- Advocacy on behalf of science education in Texas at the local, district, and state levels.
- Annual Certified Professional Development hours.
- Eligibility for statewide awards program nominations and service on STAT committees and task forces, as well as volunteer opportunities to give back to the science education community.

Most importantly, STAT members are a community of educators and science advocates of all grade levels and disciplines to promote the discovery of the world through science to students in Texas.

## CONNECT WITH STAT

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[statweb.org](http://statweb.org)

Twitter/X | [@TxScienceSTAT](https://twitter.com/TxScienceSTAT)

Facebook | [facebook.com/TXScienceSTAT](https://facebook.com/TXScienceSTAT)

Instagram | [@TxScienceSTAT](https://www.instagram.com/TxScienceSTAT)

Conference Hashtag | [#STATCAST24](https://twitter.com/STATCAST24)



# STAT Leadership

## STAT EXECUTIVE BOARD



The Executive Board is STAT's governing body and as such, sets policy and makes decisions on behalf of the membership by providing general oversight regarding STAT affairs, its committees, advisory councils, affiliates, and publications; actively pursuing STAT goals and objectives; and monitoring financial affairs.



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STAT Executive Director

**Kiki Corry**  
CAST24 Chair, Retired

## STAT AFFILIATE REPRESENTATIVES

Together, the STAT Executive Board and Affiliate Representatives constitute the STAT Advisory Board.

**Carrie Alexander**  
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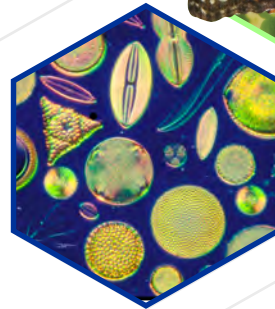
**Kathryn Barclay**  
Texas Earth Science  
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Unleash the “Aha!” Moments

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# Conference Schedule

HENRY B. GONZÁLEZ CONVENTION CENTER

## WEDNESDAY, NOVEMBER 13, 2024

TIME	EVENT	LOCATION
4:00 p.m. – 7:00 p.m.	Registration & Information	Hall 2

## THURSDAY, NOVEMBER 14, 2024

TIME	EVENT	LOCATION
7:00 a.m. – 5:00 p.m.	Registration & Information	Hall 2
7:45 a.m. – 8:45 a.m.	First-Time Attendees' Coffee	Tower View Registration
8:00 a.m. – 9:00 a.m.	Workshops	Meeting Rooms
9:30 a.m. – 10:45 a.m.	Keynote Session	Stars at Night Ballroom
11:00 a.m. – 5:00 p.m.	Exhibit Hall Open	Hall
11:30 a.m. – 12:30 p.m.	Workshops	Meeting Rooms
1:00 p.m. – 2:00 p.m.	Workshops	Meeting Rooms
1:30 p.m. – 3:30 p.m.	Extended Sessions	Meeting Rooms
2:30 p.m. – 3:30 p.m.	Workshops	Meeting Rooms
4:00 p.m. – 5:00 p.m.	Workshops	Meeting Rooms
5:30 p.m. – 7:30 p.m.	STAT Connection Reception Powered by Summit K12	The Grotto

## FRIDAY, NOVEMBER 15, 2024

TIME	EVENT	LOCATION
7:30 a.m. – 4:30 p.m.	Registration & Information	Hall 2
8:00 a.m. – 9:00 a.m.	Workshops	Meeting Rooms
8:00 a.m. – 10:00 a.m.	Extended Sessions	Meeting Rooms
9:00 a.m. – 5:00 p.m.	Exhibit Hall Open	Hall 2
9:30 a.m. – 10:30 a.m.	Workshops	Meeting Rooms
11:00 a.m. – 12:00 p.m.	Workshops	Meeting Rooms
12:30 p.m. – 1:30 p.m.	Workshops	Meeting Rooms
2:00 p.m. – 3:00 p.m.	Workshops	Meeting Rooms
2:30 p.m. – 4:30 p.m.	Extended Sessions	Meeting Rooms
3:30 p.m. – 4:30 p.m.	Workshops	Meeting Rooms
5:00 p.m. – 6:15 p.m.	"Chasing the Tide" Series Screening	221AB

## SATURDAY, NOVEMBER 16, 2024

TIME	EVENT	LOCATION
7:30 a.m. – 10:00 a.m.	Registration	Hall 2
7:30 a.m. – 1:30 p.m.	Information	Hall 2
8:00 a.m. – 12:00 p.m.	Exhibit Hall Open	Hall 2
8:00 a.m. – 9:00 a.m.	Workshops	Meeting Rooms
9:30 a.m. – 10:30 a.m.	Workshops	Meeting Rooms
9:30 a.m. – 11:30 a.m.	Extended Sessions	Meeting Rooms
11:00 a.m. – 12:00 p.m.	Workshops	Meeting Rooms
12:30 p.m. – 1:30 p.m.	Workshops	Meeting Rooms

# General Conference Information

## CONFERENCE POLICIES

### Clear-the-Room Policy

It is STAT policy to clear each workshop room of ALL participants following each session. Please exit each session upon conclusion to allow the next presenter to enter.

### Name Badge Policy

Attendees must wear name badges to be admitted to conference sessions, social events, and the Exhibit Hall. If you lose your name badge, please visit Registration for a replacement.

## SESSION TYPES

### Workshops & Featured Sessions

The one-hour presentations by individuals or groups are in a classroom setting and are open to all conference attendees on a first-come, first-served basis. Any handouts from the sessions can be downloaded directly from the **STATCAST** mobile app.

### Extended Sessions

These 2-hour courses provide a more in-depth look at specific topics. See Extended Session descriptions for locations. There is no additional registration fee required, and unless specifically noted, Extended Sessions are open to all attendees on a first-come, first-served basis.

### STAT Chats

STAT Chats are 20–30-minute TED Talk-style presentations that offer a quick look at hot topics in science education. Refer to page 22 or the **STATCAST** mobile app for more information.



## CAST24 MOBILE APP

Download the CAST24 mobile app by searching for **STATCAST** in the App Store or on Google Play. This free app provides detailed information about the workshops and sessions, allows you to plan your schedule, download session handouts, rate sessions, and more.

## CAST24 GAME

Join fellow attendees in a trivia scavenger hunt via the **STATCAST** mobile app. Compete with other CAST24 attendees as you play your way to victory and a chance to win prizes and bragging rights.

## PROFESSIONAL DEVELOPMENT INFORMATION

Use the Professional Development Form found on page 88 and in the **STATCAST** mobile app to document your participation in CAST24.

## WIFI & HASHTAG

To access the WiFi network, look for the **CAST24** network. Password: **STATCAST24**.

The official hashtag is **#STATCAST24**

### SPECIAL EVENTS

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#### STAT Connection Reception Powered by Summit K12

5:15 p.m.–6:45 p.m. | Thursday, November 14

Join us for the STAT Connection Reception powered by Summit K12! Enjoy a fun evening by the riverside Grotto, where you can relax and mingle with fellow professionals. We'll have tasty snacks, drinks, party games, and a photobooth to capture the fun. Plus, there will be plenty of goodies and exciting giveaways to kick off CAST24! It's the perfect chance to connect and enjoy a great evening together.

### LOCATIONS TO KNOW

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#### Registration & Information Desk

The CAST Registration & Information desk is located in Hall 2. Check for lost-and-found items and get answers to your CAST questions. The information desk will have a radio to contact show managers, security, and medical personnel.

#### Presenter/Volunteer Check-in

Presenter and Volunteer Check-in is located at the Registration & Information desk in Hall 2.

#### Food Court

Lunch and snacks will be available for purchase in the Exhibit Hall in Hall 2.

#### First Aid

The First Aid Station is located in Hall 2, Room 01. Medical staff will be on-site in this area throughout CAST. To contact first aid personnel or security, visit the Information Booth or find a STAT volunteer to radio staff.

#### Mother's Room Area

The Mother's Room is located in Room 1212 or Room 2137.

#### Special Needs

Registrants who require a motorized scooter need to have submitted a request through CAST online registration and may pick up a scooter at the Registration & Information desk.

### PARKING INFORMATION

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Daily self-parking is available at parking garages near the Henry B. González Convention Center.

- **Convention Center Garage:** 850 E. Commerce, San Antonio, Texas 78205
- **Convention Center South Parking:** 637 S. Tower of the Americas Way, San Antonio, Texas 78205
- **Tower of the Americas Parking:** 801 Cesar Chavez Blvd., San Antonio, Texas 78205
- **Shops at Rivercenter–Commerce:** 849 E. Commerce Street, San Antonio, Texas 78205
- **Shops at Rivercenter–Crockett:** 300 E. Crockett Street, San Antonio, Texas 78205

If you are staying at the one of the CAST24 hotels, parking is available at each of them:

- **Marriott Rivercenter and Riverwalk:** 101 Bowie Street/889 E. Market Street, San Antonio, Texas 78205
- **Grand Hyatt San Antonio:** 600 E. Market Street, San Antonio, Texas 78205
- **Hilton Palacio del Rio:** 200 S. Alamo Street, San Antonio, Texas 78205 (.3 miles to convention center)





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# 2024 STAT Statewide Award Recipients

Each year, STAT is proud to recognize excellence in and dedication to the field of science education through its annual award program, which highlights classroom teachers at multiple levels (elementary and secondary), campus/district leadership, and nontraditional/informal leaders whose work supports science teachers. A committee of STAT members reviews all applications and selects award recipients to be recognized during the annual Conference for the Advancement of Science Teaching (CAST).

## OUTSTANDING SCIENCE TEACHER OF THE YEAR AWARDS

The Outstanding Science Teacher of the Year Awards recognize excellence in science teaching in Texas public, private, or charter schools, and are presented annually.

### Outstanding Elementary Science Teacher of the Year

#### Amy McElroy Barbers Hill ISD



Amy McElroy is a sixth-grade science teacher in Barbers Hill ISD in Mont Belvieu, Texas. Among other endeavors during her more than 25 years of experience in education, she has taught fourth graders and fifth graders, created and presented professional development for K–12 educators, and led workshops on differentiating instruction. Prior to her teaching career, she worked for Avnet Inc., overseeing the company's Austin location, the fastest-growing branch in the U.S. However, she realized that her true passion lay in helping others grow, leading her to transition into teaching through the Region XIII alternative certification program. Her educational background includes graduating cum laude from Texas A&M University after exploring several fields of study, including pre-law and pre-med. Her approach to education is influenced by her business background, as she strives to instill habits of success in her students, preparing them for both academic and personal achievements. She believes in the transformative power of teaching, recognizing its role in changing the lives of students who will, in turn, shape the future.

### Outstanding Secondary Science Teacher of the Year

#### Faryal Shaukat, EdD Pasadena ISD



Dr. Faryal Shaukat is a passionate science educator with more than a decade of experience in Texas public schools. Currently the science lead educator at Pasadena ISD, she has been instrumental in increasing AP Biology and Chemistry enrollment and achievement, leading her students to the highest AP Biology scores in the district. She is also a key figure in expanding advanced coursework opportunities, including the introduction of the AP Capstone program at her school. Dr. Shaukat holds a doctorate in STEM curriculum and instruction from the University of Houston-Clear Lake. Her innovative teaching methods, which include the integration of AI and hands-on learning, have fostered a deep love of science in her students. Beyond the classroom, she mentors fellow educators and serves as an adjunct professor at San Jacinto Community College, further bridging the gap between secondary and higher education.



## DISTINGUISHED LEADERSHIP IN SCIENCE EDUCATION AWARD

The Distinguished Leadership in Science Education Award is presented annually and recognizes outstanding support of science education at the district or state level by a nonteaching administrator in early childhood through grade 12, or nontraditional/informal leaders whose work supports science teachers.

#### Rocco Williams Fort Worth ISD



Rocco Williams is a K–12 science curriculum coordinator in Fort Worth ISD. Prior to launching his career as a science teacher in Fort Worth, he earned his B.S. in elementary education from Illinois State University. As a fifth-grade science and social studies teacher, and later as an instructional coach, his innovative approach to teaching and learning—focused on hands-on, technology-driven instruction—earned recognition from his school and the broader education community. He earned his M.S. degree in instructional design and technology in 2016, further enhancing his passion for developing high-quality instructional practices.

# STAT Affiliates

As the Texas science community is diverse and made up of educators focused on a variety of disciplines and serving various grade levels, STAT is proud to recognize and support independent organizations that further serve STAT members. By policy, STAT may enter into strategic partnerships with any active science association in Texas that has 25 or more members and shares and supports the goals and purpose of STAT.

These organizations are collectively referred to as “affiliates,” and currently, STAT recognizes eight such active groups in Texas. Affiliated associations play a critical role in advising STAT on issue affecting specific areas of science education through the STAT Advisory Board and in creating and delivering specialized content at CAST through specific affiliate strands and throughout the year through other mediums.

STAT is grateful to these Affiliate partners for their contributions to CAST, as outlined on the following pages.



## Associated Chemistry Teachers of Texas

All ACT2 Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

### Thursday, November 14

#### WORKSHOP

2:30 p.m.–3:30 p.m.

#### ACT2 Presents: The Art of Mathing Without Mathing—Chemistry Math Redone

ID: 50317 | Grades 9–12 | 225A

**Joel Morales**, Pre-AP Chemistry Teacher, IDEA North Mission

### Friday, November 15

#### WORKSHOP

8:00 a.m.–9:00 a.m.

#### ACT2 Presents: The Care and Keeping of a Stockroom

ID: 50303 | Grades 6–8,  
Grades 9–12 | 225A

**Nicole Lyssy**, Teacher, Curriculum Design, ACT2

#### WORKSHOP

11:00 a.m.–12:00 p.m.

#### ACT2 Presents: Lewis Structures and VSEPR With NASSL

ID: 20234 | Grades 9–12 | 225A

**Timothy Mooney**, Classroom Teacher, Aubrey High School

#### WORKSHOP

9:30 a.m.–10:30 a.m.

#### ACT2 Presents: Periodic Tables in all Sizes and Shapes

ID: 20263 | Grades 6–8,  
Grades 9–12 | 225A

**Stephanie Taylor, PhD**, Associate Professor of Instruction, UT Dallas

#### WORKSHOP

12:30 p.m.–1:30 p.m.

#### ACT2 Presents: An Activity-Based Approach to Teaching Periodic Trends

ID: 50344 | Grades 9–12 | 225A

**Cindy Welch**, Teacher, Kingwood High School; **Summer Bland**, Teacher, Kingwood High School

### Saturday, November 16

#### WORKSHOP

8:00 a.m.–9:00 a.m.

#### ACT2 Presents: Get Moving With VSEPR! Using Kinesthetics to Teach Molecular Geometry

ID: 50304 | Grades 9–12 | 225A

**Kimberly Curtis**, AP Chemistry Teacher, Health Careers High School

#### WORKSHOP

9:30 a.m.–10:30 a.m.

#### ACT2 Presents: Miyagi-Do Stoichiometry

ID: 50357 | Grades 9–12 | 225A

**Eric Oblinger, PhD**, Chemistry Teacher, Concordia Lutheran High School





## Informal Science Education Association

All ISEA Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

Thursday, November 14

### WORKSHOP

8:00 a.m.–9:00 a.m.

#### ISEA Presents: Connecting Ants, Bird Beaks, and Wildlife Symbols

ID: 50325 | Pre-K–Grade 1, Grades 2–3 | 221C

**Amy Kamata**, 5th Grade Math/Science Teacher, Northeast ISD

### WORKSHOP

1:00 p.m.–2:00 p.m.

#### ISEA Presents: Riparian Zones Then and Now

ID: 50354 | Pre-K–Grade 12 | 221C

**Michelle Crowell**, Science Teacher, Project WILD; **Michelle Crowell**, Science Teacher, Project WILD

### WORKSHOP

11:30 a.m.–12:30 p.m.

#### ISEA Presents: Environmental Stewardship and Connection to Place

ID: 50306 | Grades 6–8, Grades 9–12 | 221C

**Bess Price**, Education Manager, Meadows Center for Water and the Environment; **Miranda Wait**, Deputy Director of Spring Lake Operations, Meadows Center for Water and the Environment



For complete session descriptions and speaker bios, visit the [STATCAST Mobile App!](#)

Friday, November 15

### WORKSHOP

8:00 a.m.–9:00 a.m.

#### ISEA Presents: Engaging All Ages With Deep-Sea Habitats and Restoration

ID: 50316 | Grades 6–8, Pre-K–Grade 12 | 221C

**Sasha Francis**, Gulf Restoration Education & Outreach Manager, National Marine Sanctuary Foundation

### WORKSHOP

11:00 a.m.–12:00 p.m.

#### ISEA Presents: Connecting STEM and the Arts Through Inquiry and Hands-On Activities

ID: 50355 | Grades 2–3, Grades 4–5 | 221C

**John Espinoza**, School Programs Educator, Science Mill

### WORKSHOP

9:30 a.m.–10:30 a.m.

#### ISEA Presents: Decomposers—Not Just for the Dark Side Anymore

ID: 50353 | Grades 6–8, Grades 9–12 | 221C

**Michelle Crowell**, Science Teacher, Project WILD

### WORKSHOP

12:30 p.m.–1:30 p.m.

#### ISEA Presents: A WILD Cycle—Using Project WILD to Teach Natural Cycles

ID: 50323 | Grades 6–8 | 221C

**Sara Jose**, Project WILD Coordinator, Texas Parks & Wildlife Department; **Lucinda Sohn**, Professor of Instruction, UT San Antonio; **Stephanie Hurst**, Science Department Chair, Cleveland Middle School





## Saturday, November 16

### WORKSHOP

8:00 a.m.–9:00 a.m.

#### ISEA Presents: Nature Is an Essential Part of a Healthy Childhood

ID: 50333 | Pre-K–Grade 12 | 221C

**Sarah Coles**, Texas Children in Nature Network

### WORKSHOP

11:00 a.m.–12:00 p.m.

#### ISEA Presents: You Belong Here—Creating Career Paths in Water

ID: 50346 | Grades 9–12 | 221C

**Greg Wukasch**, External Affairs Manager, San Antonio Water System

### WORKSHOP

9:30 a.m.–10:30 a.m.

#### ISEA Presents: Engaging All Types of Learners in Birding

ID: 50345 | Pre-K–Grade 1, Grades 2–3 | 221C

**Jennifer Fetter-Matthys**, Director, Ecologist School Houston

### WORKSHOP

12:30 p.m.–1:30 p.m.

#### ISEA Presents: Ecosystem Models With Project WILD

ID: 50324 | Grades 9–12 | 221C

**Sara Jose**, Project WILD Coordinator, Texas Parks & Wildlife Department



## Texas Association of Biology Teachers

All TABT Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

## Thursday, November 14

### WORKSHOP

8:00 a.m.–9:00 a.m.

#### TABT Presents: Tier 2 and Tier 3 Intervention for Biology STAAR

ID: 50356 | Grades 9–12 | 225A

**Amy Neville**, Science Department Chair, Anna ISD

### WORKSHOP

1:00 p.m.–2:00 p.m.

#### TABT Presents: Noodle Biology

ID: 50330 | Grades 9–12 | 225A

**Claire Vollmar**, Education Consultant, TABT

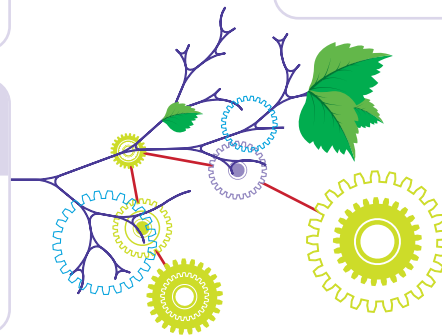
### WORKSHOP

11:30 a.m.–12:30 p.m.

#### TABT Presents: Interactive Cell Membrane Model

ID: 50329 | Grades 6–8, Grades 9–12 | 225A

**Claire Vollmar**, Education Consultant, TABT



## Friday, November 15

### WORKSHOP

2:30 p.m.–5:00 p.m.

#### TABT Presents: 2024 Annual Meeting

ID: 50351 | Pre-K–Grade 12 | 225A

**Chris Carrell**, Teacher, Llano ISD



## TABT, *continued*

Saturday, November 16

### WORKSHOP

11:00 a.m.–12:00 p.m.

**TABT Presents: From Breeding Fish to Restoring Habitats—Let's Dive Into Aquatic Science!**

ID: 50328 | Grades 6–8,  
Grades 9–12 | 225A  
Adam Cohen, Mansfield ISD

### WORKSHOP

12:30 p.m.–1:30 p.m.

**TABT Presents: Biology Presentation Speed Dating**

ID: 50350 | Grades 6–8,  
Grades 9–12 | 225A

Chris Carrell, Teacher, Llano High School



## Texas Association for Environmental Education

All TAE Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

Thursday, November 14

### WORKSHOP

8:00 a.m.–9:00 a.m.

**TAE Presents: Creating Young Birders—Using STEM Activities to Engage Students' Interests in Birds, Their Behavior, and Habitat**

ID: 50349 | Grades 4–5,  
Grades 6–8 | 225D  
Brett Mosley, Director, Texas Tech University Outdoor Learning Center

### WORKSHOP

11:30 a.m.–12:30 p.m.

**TAE Presents: How to Become a Texas Certified Environmental Educator**

ID: 50331 | Pre-K–Grade 12 | 225D  
Brian McDaniel, President, TAE



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## Texas Council of Elementary Science

All TCES Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

Thursday, November 14

### WORKSHOP

11:30 a.m.–12:30 p.m.

#### TCES Presents: Linking Three-Dimensional Learning and Data-Driven Instruction

ID: 50337 | Grades 4–5,  
Grades 6–8 | 225B

**Gelyn Roble**, Science Coordinator,  
Alief ISD

### WORKSHOP

2:30 p.m.–3:30 p.m.

#### TCES Presents: You Can't Teach Science Through Fairytales . . . OH, YES YOU CAN!

ID: 50336 | Grades 2–3,  
Grades 4–5 | 225B

**Kelly Suarez**, Elementary Science  
Curriculum Coordinator, Northwest  
ISD; **Rocco Williams**, K–12 Science  
Curriculum Coordinator, Fort Worth ISD

### WORKSHOP

1:00 p.m.–2:00 p.m.

#### TCES Presents: Connecting Inquiry Into Core Memories

ID: 50352 | Grades 2–3,  
Grades 4–5 | 225B

**Melissa Brown**, Elementary  
Science Curriculum Specialist, New  
Braunfels ISD

### WORKSHOP

4:00 p.m.–5:00 p.m.

#### TCES Presents: Elementary Science Educators Networking and Idea Exchange—Sharing Innovations and Insights (Day 1)

ID: 50321 | Grades 2–3,  
Grades 4–5 | 225B

**Rocco Williams**, K–12 Science  
Curriculum Coordinator, Fort Worth ISD

Friday, November 15

### EXTENDED SESSION

8:00 a.m.–10:00 a.m.

#### TCES Presents: STEM Spectacular

ID: 50335 | Grades 2–3,  
Grades 4–5 | 225B

**Kelly Suarez**, Elementary Science  
Coordinator, TCES

### WORKSHOP

2:00 p.m.–3:00 p.m.

#### TCES Presents: Literacy Is Important to Science, But Why?

ID: 50332 | Grades 2–3,  
Grades 4–5 | 225B

**Jessica Hilbert**, K–12 Science  
Coordinator, Fort Worth ISD;  
**Genedra Trotter**, K–12 Science  
Coordinator, Fort Worth ISD

### WORKSHOP

11:00 a.m.–12:00 p.m.

#### TCES Presents: Sci-Fi Life Science Literacy—Elaborating About Inherited Traits With Pokémon

ID: 50327 | Grades 4–5,  
Pre-K–Grade 12 | 225B

**Omah Williams-Duncan, PhD**, Asso-  
ciate Professor in Teacher Education,  
University of Houston-Clear Lake

### WORKSHOP

3:30 p.m.–4:30 p.m.

#### TCES Presents: Elementary Science Educators Networking and Idea Exchange—Sharing Innovations and Insights (Day 2)

ID: 50322 | Grades 2–3,  
Grades 4–5 | 225B

**Rocco Williams**, K–12 Science  
Curriculum Coordinator, Fort Worth  
ISD

### WORKSHOP

12:30 p.m.–1:30 p.m.

#### TCES Presents: Engineering Success in STEM

ID: 50338 | Grades 2–3,  
Grades 4–5 | 225B

**Gelyn Roble**, Science Coordinator,  
Alief ISD



**TCES, continued**

**Saturday, November 16**

**WORKSHOP**

8:00 a.m.–9:00 a.m.

**TCES Presents: Introduction to Three-Dimensional Learning**

**ID: 50313 | Pre-K–Grade 12 | 225B**

**Morgan Castillo**, TCES Regional VP, Baylor University

**WORKSHOP**

11:00 a.m.–12:00 p.m.

**TCES Presents: Behaviors Beckon—Science-Based Strategies for Positive Classroom Management**

**ID: 50334 | Pre-K–Grade 1, Grades 2–3 | 225B**

**Sandy Dougherty**, Elementary Teacher/Curriculum Writer, Northwest ISD; **Karissa Smith**, Elementary Teacher/Curriculum Writer, Northwest ISD

**WORKSHOP**

9:30 a.m.–10:30 a.m.

**TCES Presents: Translanguaging in Science Classrooms**

**ID: 50318 | Grades 2–3, Grades 4–5 | 225B**

**Erik Guarneros**, K–12 Bilingual Science Instructional Coach, Fort Worth ISD

**WORKSHOP**

12:30 p.m.–1:30 p.m.

**TCES Presents: Preservice Teacher Roundtable—Chats About Soft Skills and Unmentioned Career Tips for Success**

**ID: 50326 | Grades 4–5, Grades 6–8 | 225B**

**Omah Williams-Duncan, PhD**, Associate Professor in Teacher Education, University of Houston-Clear Lake

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down to  
a science.



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## Texas Earth Science Teachers Association

All TESTA Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

Thursday, November 14

### WORKSHOP

8:00 a.m.–9:00 a.m.

#### TESTA Presents: Safe to Drink? Ground Water and Carbon Capture

ID: 50367 | Grades 6–8, Grades 9–12 | 224

**Stephanie Hurst**, Science Department Chair, Cleveland Middle School; **Linda McCall**, Bureau Information Geologist and Resource Center Manager, Bureau of Economic Geology; **Cynthia Hopkins**, Middle School Science Teacher, Corpus Christi ISD

### WORKSHOP

1:00 p.m.–2:00 p.m.

#### TESTA Presents: It's Just a Rock, or Is It?

ID: 50370 | Grades 4–5, Grades 6–8 | 224

**Kathryn Barclay**, Retired, TESTA

### WORKSHOP

2:30 p.m.–3:30 p.m.

#### TESTA Presents: Born Under the Silvery Moon

ID: 50371 | Grades 4–5, Grades 6–8 | 224

**Kathryn Barclay**, Retired, TESTA

### WORKSHOP

11:30 a.m.–12:30 p.m.

#### TESTA Presents: Minerals Matter

ID: 50363 | Grades 6–8, Grades 9–12 | 224

**Kathryn Barclay**, Retired, TESTA

### WORKSHOP

4:00 p.m.–5:00 p.m.

#### TESTA Presents: S.O.A.R. – Solar, Ocean, Atmosphere and Reactions

ID: 50364 | Grades 4–5, Grades 6–8 | 224

**Kathryn Barclay**, Retired, TESTA

Friday, November 15

### EXTENDED SESSION

8:00 a.m.–10:00 a.m.

#### TESTA Presents: Plate Tectonics Rocking Our World

ID: 50365 | Grades 4–5, Grades 6–8 | 224

**Lale Bilir**, Retired, TESTA

### EXTENDED SESSION

3:00 p.m.–5:00 p.m.

#### TESTA Presents: TESTA Rock Raffle

ID: 50360 | Grades 4–5, Grades 6–8 | 224

**Kathryn Barclay**, Retired, TESTA

### WORKSHOP

11:00 a.m.–12:00 p.m.

#### TESTA Presents: The One-Thing-at-a-Time Periodic Table Activity

ID: 50366 | Grades 6–8, Grades 9–12 | 224

**Jim Manley**, Retired, Coppell ISD/ Dallas Arboretum; **Cherry Guentzel**, Retired Leander, ISD

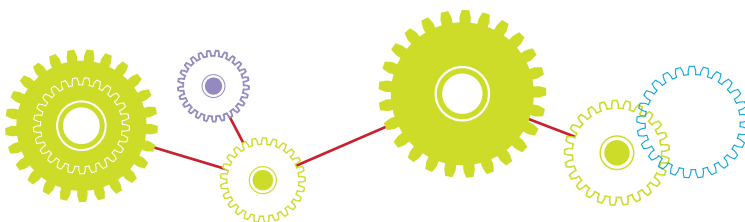
### WORKSHOP

12:30 p.m.–1:30 p.m.

#### TESTA Presents: Talking and Doing Space!

ID: 50368 | Grades 4–5, Grades 6–8 | 224

**Devalyn Rogers**, Middle School Science Teacher, TESTA





## TESTA, *continued*

Saturday, November 16

### EXTENDED SESSION

9:30 a.m.–11:30 a.m.

#### TESTA Presents: TESTA Share-a-Thon

ID: 50361 | Grades 4–5, Grades 6–8 | 224

**Jim Manley**, Retired, Coppell ISD/Dallas Arboretum; **Devalyn Rogers**, Middle School Science Teacher, TESTA; **Linda McCall**, Bureau Information Geologist and Resource Center Manager, Bureau of Economic Geology; **Susan Hovorka**, Senior Research Professor, Bureau of Economic Geology; **Natasha Garza**, 8th Grade Science Teacher, Franklin ISD; **Cherry Guentzel**, Retired, Leander ISD; **Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas

### WORKSHOP

12:30 p.m.–1:30 p.m.

#### TESTA Presents: Improving Tier 1 Instruction at the Middle School Level

ID: 50369 | Grades 4–5, Grades 6–8 | 224

**Natasha Garza**, 8th Grade Science Teacher, Franklin ISD

### WORKSHOP

8:00 a.m.–9:00 a.m.

#### TESTA Presents: A Vivid Earth Science Introduction to Plate Tectonics and Landforms

ID: 50342 | Grades 4–5, Grades 6–8 | 224

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas



## Texas Section, American Association of Physics Teachers

All TSAAPT Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

Thursday, November 14

### WORKSHOP

1:00 p.m.–2:00 p.m.

#### TSAAPT Presents: Waves in Eighth Grade (TEKS 8.8A and 8.8B)

ID: 50343 | Grades 6–8 | 225D

**Janie Head**, Secondary Science Specialist, TSAAPT

### WORKSHOP

4:00 p.m.–5:00 p.m.

#### TSAAPT Presents: Bridging EM to Quantum With Planck's Constant

ID: 50379 | Grades 9–12 | 225D

**Rachel Smith**, Teacher, Lubbock ISD; **Ashley Fiamengo**, Teacher, Irving ISD

### WORKSHOP

2:30 p.m.–3:30 p.m.

#### TSAAPT Presents: All About Energy—What Does That Form Really Mean?

ID: 50340 | Grades 2–3, Grades 4–5 | 225D

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas; **Stephanie Taylor, PhD**, Associate Professor of Instruction, UT Dallas



## TSAAPT, *continued*

Friday, November 15

### WORKSHOP

8:00 a.m.–9:00 a.m.

**TSAAPT Presents: Data, Data, Data! Use Data From Phenomena to Drive Science Learning**

ID: 50320 | Grades 9–12 | 225D

**Jimmy Newland, PhD**, CS Education Specialist, Texas Advanced Computing Center; **Eric Friberg**, Biology Teacher, Content Director, ISD 197, Pivot Interactives

### WORKSHOP

12:30 p.m.–1:30 p.m.

**TSAAPT Presents: How to Integrate Computer Science Into a Physics/IPC Classroom Without Losing Your Mind**

ID: 50374 | Grades 6–8, Grades 9–12 | 225D

**Celestina Pangan**, Teacher, TSAAPT

### WORKSHOP

9:30 a.m.–10:30 a.m.

**TSAAPT Presents: Exoplanets and Citizen Science Astronomy in the Classroom**

ID: 50341 | Grades 6–8, Grades 9–12 | 225D

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas

### WORKSHOP

2:00 p.m.–3:00 p.m.

**TSAAPT Presents: Junkyard Physics and Engineering**

ID: 50377 | Grades 9–12 | 225D

**Deborah Armstrong**, Physics and Engineering Teacher, Mineola High School

### WORKSHOP

11:00 a.m.–12:00 p.m.

**TSAAPT Presents: Exploring Malus's Law and Mutually Exclusive States**

ID: 50359 | Grades 9–12 | 225D

**Meghan DiBacco**, Teacher, Katy ISD; **Karen Matsler**, Master Teacher, UT Arlington

### WORKSHOP

3:30 p.m.–4:30 p.m.

**TSAAPT Presents: Light and the Quantum World**

ID: 50339 | Grades 9–12 | 225D

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas; **Stephanie Taylor, PhD**, Associate Professor of Instruction, UT Dallas

Saturday, November 16

### WORKSHOP

8:00 a.m.–9:00 a.m.

**TSAAPT Presents: Light's Double Life—Exploring Wave Particle Duality**

ID: 50358 | Grades 9–12 | 225D

**Meghan DiBacco**, Teacher, Katy ISD; **Karen Matsler**, Master Teacher, UT Arlington; **Ryan Piwetz**, Teacher, Port Aransas High School

### WORKSHOP

11:00 a.m.–12:00 p.m.

**TSAAPT Presents: Quantum Physics at Home**

ID: 50378 | Grades 9–12 | 225D

**Victor Cervantes**, Teacher, Forney ISD; **Jaime Govea**, Teacher; **Christopher Henderson**, Teacher, Round Rock ISD

### WORKSHOP

9:30 a.m.–10:30 a.m.

**TSAAPT Presents: Quantum Phenomena Radiation in the High School Classroom**

ID: 50376 | Grades 9–12 | 225D

**Ryan Cote**, Teacher, College Station ISD; **Meghan DiBacco**, Teacher, Katy ISD

### WORKSHOP

12:30 p.m.–1:30 p.m.

**TSAAPT Presents: What IS Light?**

ID: 50375 | Grades 4–5, Grades 6–8 | 225D

**Meghan DiBacco**, Teacher, Katy ISD; **Cathy Barthelemy**, Educator, Fort Worth Museum of Science and History; **Karen Matsler**, Master Teacher, UT Arlington



## Texas Science Education Leadership Association

All TSELA Presents workshops are open to all CAST attendees. Please visit the [STATCAST](#) mobile app for complete workshop and session descriptions.

Thursday, November 14

### WORKSHOP

11:30 a.m.–12:30 p.m.

#### TSELA Presents: So, You Want to Be a District Science Leader?

ID: 50310 | Pre-K–Grade 12 | 225C

**Tina Hovance**, Secondary Science Coordinator, Katy ISD; **Ann Mulvihill**, AVID Secondary Program Manager, Garland ISD

### WORKSHOP

4:00 p.m.–5:00 p.m.

#### TSELA Presents: Science Leader as Coach

ID: 50312 | Pre-K–Grade 12 | 225C

**Derek McDowell**, Coordinator, Frisco ISD

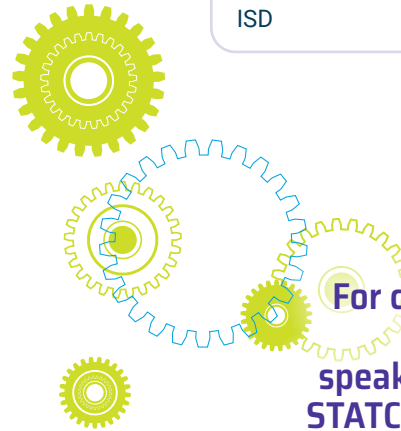
### WORKSHOP

1:00 p.m.–2:00 p.m.

#### TSELA Presents: Planning as a District Coordinator for Implementation of the New Science Standards While Building the Capacity of Science Campus Leaders

ID: 50302 | Pre-K–Grade 12 | 225C

**Beth Collins**, Secondary Science Coordinator, Frisco ISD



For complete session descriptions and speaker bios, visit the **STATCAST Mobile App!**

Friday, November 15

### EXTENDED SESSION

8:00 a.m.–10:00 a.m.

#### TSELA Presents: Empowering Administrators—A Guide to Implementing the New Science Standards

ID: 50305 | Pre-K–Grade 12 | 225C

**Ashley Carter, PhD**, 6–12 Science Coordinator, Plano ISD; **Rama Chintapalli**, 6–12 Science Coordinator, Donna ISD; **Brianna Morris**, 6–12 Science Coordinator, Denton ISD

### EXTENDED SESSION

2:30 p.m.–4:30 p.m.

#### TSELA Presents: The Road to Results—Building a Theory of Action

ID: 50300 | Pre-K–Grade 12 | 225C

**Jennifer Culver**, Science Consultant, Region 10 ESC; **Samantha Bradbury**, K–12 Science Consultant, Region 10 ESC; **Staci Barker**, Research & Strategic Priorities Analyst, Region 10 ESC

### WORKSHOP

11:00 a.m.–12:00 p.m.

#### TSELA Presents: Teachers Don't Care How Much You Know Until They Know How Much You Care

ID: 50308 | Pre-K–Grade 12 | 225C

**Helen Wright**, Secondary Science Instructional Coach, Northwest ISD; **Shelley Hawkins**, K–12 Science Specialist, Keller ISD

### WORKSHOP

12:30 p.m.–1:30 p.m.

#### TSELA Presents: Empowering Administrators to be Instructional Leaders of Three-Dimensional Science Instruction to Support the New TEKS

ID: 50309 | Grades 6–8, Grades 9–12 | 225C

**Tina Hovance**, Secondary Science Coordinator, Katy ISD; **Lindi Kudlacek**, Secondary Science Coordinator, Katy ISD





## TSELA, *continued*

Saturday, November 16

### EXTENDED SESSION

9:30 a.m.–11:30 a.m.

#### TSELA Presents: Unlocking 3-D Science Instruction—Crafting Action Plans for District Leaders Using Learning Targets

ID: 50301 | Pre-K–Grade 12 | 225C

**Courtney Toht**, Secondary Science  
Coordinator, Northwest ISD; **Kelly  
Suarez**, Elementary Science  
Curriculum Coordinator, Northwest  
ISD; **Helen Wright**, Secondary  
Science Instructional Coach  
Northwest ISD

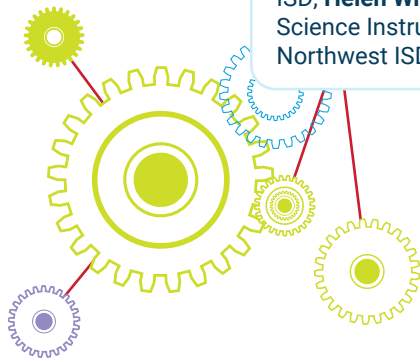
### WORKSHOP

8:00 a.m.–9:00 a.m.

#### TSELA Presents: Cracking the Code—Debunking the Misconceptions Surrounding the TEKS, SEPs, and RTCs

ID: 50311 | Pre-K–Grade 12 | 225C

**Caitlin Couch**, Science Coordinator  
Ector, County ISD



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# STAT Chats

Visit a STAT Chat for a 20–30-minute TED Talk-style presentation offering quick looks at the hottest topics in science education. Please refer to the [STATCAST](#) mobile app for complete descriptions of the STAT Chats. These sessions are presented on a staggered schedule to provide flexibility.

## Friday, November 15 | Room 209

### The Impact of Project-Based Learning in Science Education

8:00 a.m.–8:20 a.m.

ID: 20195 | Grades 6–8,  
Grades 9–12 | 209

**Merve Gokgol**, Teacher, Harmony Public School of Endeavor

### Integrate to Elevate STEM Connections

11:20 a.m.–11:40 a.m.

ID: 20299 | Grades 2–3,  
Grades 4–5 | 209

**Krista Skytland**, 4th Grade ELA Teacher, CCISD; **Jessica Raught**, 4th Grade Math/Science Teacher, CCISD

### Strategies for Increasing Physics Identity Among Girls in High School

2:00 p.m.–2:20 p.m.

ID: 20361 | Grades 9–12 | 209

**Deanna Flood**, Northeast ISD

### Don't Believe Everything You Believe

8:40 a.m.–9:00 a.m.

ID: 20005 | Grades 6–8,  
Grades 9–12 | 209

**Bertha Vazquez**, Science Teacher and Director, The Teacher Institute for Evolutionary Science

### STAAR Scores Decline in Grades 3–8 Science and Math: What Research Says Should Be Done

12:00 p.m.–12:20 p.m.

ID: 20313 | Pre-K–Grade 12 | 209

**Sandra West, PhD**, Associate Professor Emerita, Texas State University

### EXHIBITOR SESSION

### Eliciting Student Responses to Formatively Assess 3-D Learning

2:40 p.m.–3:00 p.m.

ID: 60121 | Pre-K–Grade 12 | 209

**Elizabeth McMillan**, Graduate Student, UT San Antonio

### Lichen or Not: Ecological Succession

9:20 a.m.–9:40 a.m.

ID: 20044 | Grades 6–8,  
Grades 9–12 | 209

**Cheryl Trepagnier**, Instructional Support Teacher, Northside ISD

### Environmental Earth Sciences: Experiential Learning With Community Interactions

12:40 p.m.–1:00 p.m.

ID: 20342 | Grades 6–8,  
Grades 9–12 | 209

**Sarah Radencic Lalk, PhD**, Assistant Teaching Professor, Mississippi State University; **Christa Haney, PhD**, Assistant Teaching Professor, Mississippi State University

### EXHIBITOR SESSION

### Selecting and Leveraging Digital Artifacts to Illustrate Phenomena That Anchor 3-D Instruction

3:10 p.m.–3:30 p.m.

ID: 60122 | Pre-K–Grade 12 | 2019

**Omah Williams-Duncan, PhD**, Associate Professor in Teacher Education, University of Houston-Clear Lake

### Promoting Positive Outdoor Learning Experiences in STEM

10:00 a.m.–10:20 a.m.

ID: 20178 | Grades 4–5,  
Grades 6–8 | 209

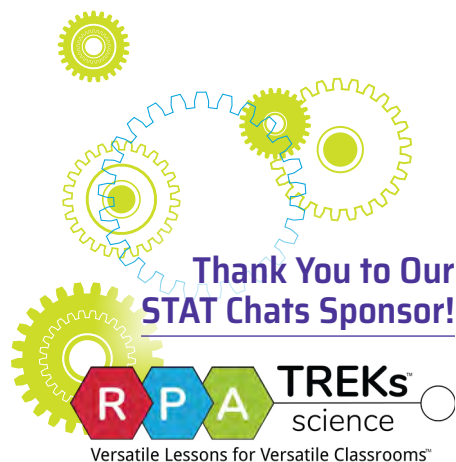
**Brett Mosley**, Director, Texas Tech University Outdoor Learning Center

### An Examination of the Challenges Influencing Science Instruction in Pre-K Through Eighth-Grade Classrooms in Rural Schools

1:20 p.m.–1:40 p.m.

ID: 20346 | Pre-K–Grade 1,  
Grades 2–3 | 209

**Gwinn North, PhD**, Assistant Professor, Tarleton State University; **Crystal Rose**, Assistant Professor, Tarleton State University





## EXHIBITOR SESSION

### Models Aren't Just 3-D! Use System Models to Improve Conceptual Understanding of Science and Phenomena

3:40 p.m. – 4:00 p.m.

ID: 60144 | Pre-K–Grade 12 | 209

**Colleen Windell**, Science Education Consultant, RPA TREKs

## EXHIBITOR SESSION

### Using Phenomena to Drive Instruction and Investigations

4:10 p.m. – 4:30 p.m.

ID: 60148 | Pre-K–Grade 12 | 2019

**Colleen Windell**, Science Education Consultant, RPA TREKs

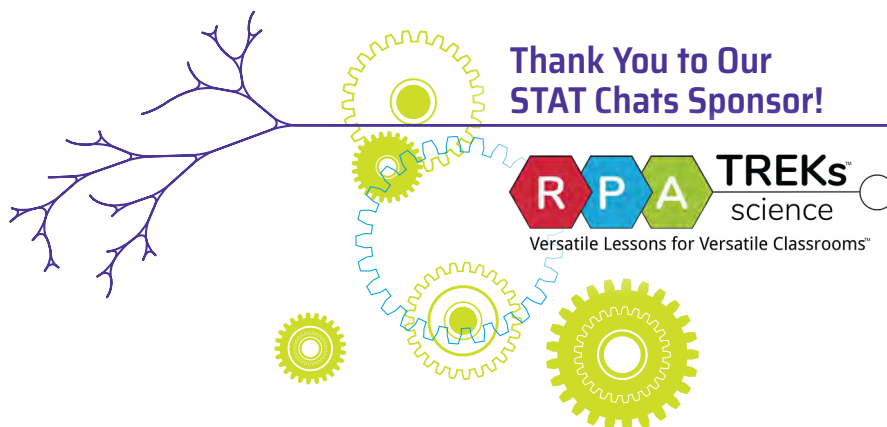
## EXHIBITOR SESSION

### What Are the RTCs Anyway?

4:40 p.m. – 5:00 p.m.

ID: 60149 | Pre-K–Grade 12 | 2019

**Colleen Windell**, Science Education Consultant, RPA TREKs



# CONNECTION RECEPTION

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# Thursday at-a-Glance Schedule

Plan your day and personalize your CAST experience. For general workshop and session information, turn to pages 31–43. For complete workshop and session descriptions, please visit the [STATCAST](#) mobile app.

TIME	EVENT	LOCATION
7:00 a.m.–5:00 p.m.	Registration & Information	Hall 2
7:45 a.m.–8:45 a.m.	First-Time Attendees' Coffee	Tower View Registration
8:00 a.m.–9:00 a.m.	Workshops	Meeting Rooms
9:30 a.m.–10:45 a.m.	Keynote Session	Stars at Night Ballroom
11:00 a.m.–5:00 p.m.	Exhibit Hall Open	Hall 2
11:30 a.m.–12:30 p.m.	Workshops	Meeting Rooms
1:00 p.m.–2:00 p.m.	Workshops	Meeting Rooms
1:30 p.m.–3:30 p.m.	Extended Sessions	Meeting Rooms
2:30 p.m.–3:30 p.m.	Workshops	Meeting Rooms
4:00 p.m.–5:00 p.m.	Workshops	Meeting Rooms
5:30 p.m.–7:30 p.m.	STAT Connection Reception Powered by Summit K12	The Grotto

## THURSDAY PLANNING FORM

TIME	1ST CHOICE	2ND CHOICE	3RD CHOICE
8:00 a.m.–9:00 a.m.			
9:30 a.m.–10:45 a.m.	Keynote Session		
11:30 a.m.–12:30 p.m.			
1:00 p.m.–2:00 p.m.			
1:30 p.m.–3:30 p.m.			
2:30 p.m.–3:30 p.m.			
4:00 p.m.–5:00 p.m.			
5:30 p.m.–7:30 p.m.	STAT Connection Reception Powered by Summit K12		

# Thursday Highlights

## KEYNOTE SPEAKER

### MARK SCHARENBROICH | Emmy Award-Winning Speaker

Keynote | 9:30 a.m.–10:45 a.m. | Stars at Night Ballroom

Join Emmy award-winning speaker Mark Scharenbroich for a fun ride on how to be effective at making meaningful connections in both your professional and personal life. His *Nice Bike* principle is supported by three strong actions: acknowledging, honoring, and connecting. Mark tells engaging stories focused on the relationship side of creating results, connecting administrator to faculty, team member to team member, teacher to student and student to student. Schools with a strong culture of connections drive improvements in academic performance.



## FEATURED SPEAKERS

### PAGE KEELEY | Author, Speaker, Consultant

What Are Students Really Thinking?  
Building a Bridge Between Commonly  
Held Ideas and the TEKS  
11:30 a.m.–12:30 p.m. | 221AB



Page Keeley is a nationally recognized leader in science formative assessment and understanding of students' thinking. She is a prolific author of 22 books, including award-winning titles on uncovering students' ideas, and has authored more than 60 journal articles, and developed formative assessment probes for McGraw-Hill's Inspire Science program.

### PAUL ANDERSEN | Consultant & Content Creator

Three-Dimensional Instruction in  
the Elementary Science Classroom  
1:00 p.m.–2:00 p.m. | 221AB



Three-Dimensional Instruction in  
the Secondary Science Classroom  
4:00 p.m.–5:00 p.m. | 221AB

Paul Andersen is an educational consultant and YouTube creator living in Bozeman, Montana. Paul is an experienced educator having taught science in Montana for 20 years. He has spent the last 10 years providing professional development on inquiry and three-dimensional instruction around the world.

### JACE TUNNELL | Author, Speaker, Consultant

Beachcombing the Beaches  
of the Gulf of Mexico  
2:30 p.m.–3:30 p.m. | 221AB



Jace Tunnell is the director of community engagement at the Harte Research Institute at Texas A&M University Corpus Christi. Jace directs and produces a video series about items washing up along the Gulf of Mexico beaches to help promote awareness on Gulf processes and interesting creatures in the ocean.

For complete session  
descriptions and  
speaker bios, visit the  
**STATCAST Mobile App!**

# Thursday Extended Sessions

Two-hour courses that provide more in-depth looks at specific topics. Extended Sessions are open to all attendees on a first-come, first-served basis. For complete descriptions of the Extended Sessions, please visit the [STATCAST](#) mobile app.

## EXTENDED SESSIONS | 1:30 p.m.-3:30 p.m.

### Beyond the Buzz: Leveraging AI for Culturally Relevant Differentiation

ID: 20274 | Pre-K-Grade 12 | 006A

**Stephanie Boyce**, The FRESH Classroom

### Driving Discourse in the Connected Classroom With Structured Visuals and The Visual Non-Glossary

ID: 20273 | Pre-K-Grade 12 | 006C

**Isaac Marquez**, Education Consultant, Seidlitz Education

### Synergies in Action: Bridging Science, English Language Arts, and Technology

ID: 20038 | Grades 4-5, Grades 6-8 | 220

**Rachael Coleman**, District Science Specialist, Jordan School District

### Building Engaging 3-D Lessons With the New Science TEKS

ID: 20236 | Pre-K-Grade 12 | 008A

**Vicente Colunga**, Statewide TEKS Resource System Science Specialist, Region 13 ESC; **Kimberly Mosher**, EdD, Education Specialist K-12 Science, Region 17 ESC

### Dumpster Dive With STEM

ID: 20163 | Grades 6-8, Grades 9-12 | 006B

**Jessica Kohout**, Professional Development Curriculum and Implementation Specialist, Talent 101

### Three-Dimensional Modeling of Modern Biotechnology

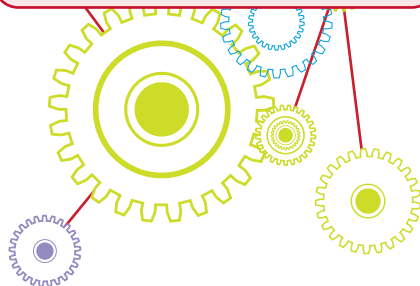
ID: 20143 | Grades 9-12 | 006D

**Kimberly Hendix**, Teacher, Northwest ISD

### Celebrating the Brilliance of Children: Three-Dimensional Science in Elementary

ID: 20155 | Grades 4-5 | 007A

**Jocelyn (Jo) Eckerman**, Science Consultant/Independent Contractor, Witte Museum



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# Thursday Workshops

One-hour presentations by individuals or groups in a classroom setting. Open to all conference attendees on a first-come, first-served basis. For complete descriptions of the Workshops, please visit the [STATCAST](#) mobile app.

## SESSIONS | 8:00 a.m.–9:00 a.m.

### Anchors Away: Let's Replace Teacher-Created Anchor Charts With Student-Created Interactive Word Walls

ID: 20269 | Pre-K–Grade 12 | 220

**Julie Jackson**, Associate Professor, Texas State University

### EXHIBITOR SESSION

### Forensic Escape Room: Design Your Own Biotech Adventure

ID: 60000 | Grades 6–8, Grades 9–12 | 305

**Brian Ell**, Chief Scientific Officer, Edvotek

### Making Science Memorable With Music

ID: 20058 | Grades 2–3, Grades 4–5 | 225B

**Rana Newbury**, 5th Grade Teacher, Henderson ISD

### EXHIBITOR SESSION

### Claim, Evidence, Reasoning (CER): Are You CERTain Your Students Understand the Data?

ID: 60133 | Pre-K–Grade 12 | 303B

Accelerate Learning

### EXHIBITOR SESSION

### From Atoms to Oceans: Modeling the Properties of Water

ID: 60066 | Grades 6–8, Grades 9–12 | 301C

**Mark Arnholt**, Science Educator, 3D Molecular Designs

### EXHIBITOR SESSION

### Phenomenal Phenomena: Using Phenomena to Engage Students in Science

ID: 60119 | Pre-K–Grade 12 | 302C

**Justin Karkow**, Vice President of Teaching & Learning, Discovery Education

### Connecting Chemistry TEKS With 3-D Learning

ID: 20125 | Grades 9–12 | 304C

**Rosemary Martin**, Consultant, Math & Science Cut Ups; **Jenny Aldstadt**, Chemistry Instructor, Episcopal High School

### Implementing the New TEKS: Shifting the Focus From Content Confirmation to Content Discovery

ID: 20265 | Grades 6–8, Grades 9–12 | 221D

**Chelsie McClure**, District Instructional Coach, Conroe ISD

### Science in the News

ID: 20041 | Grades 9–12 | 225C

**Misty Heredia**, Science Teacher, UTRGV

### EXHIBITOR SESSION

### Exploring Mendelian Inheritance With Dog Genetics

ID: 60030 | Grades 6–8, Grades 9–12 | 302A

**Robert Dennison**, Independent Educational Consultant/Retired Biology Teacher, TABT

### EXHIBITOR SESSION

### Inspiring Elementary Students to Pursue STEM Careers Early on, Sparking Joy and Curiosity

ID: 60095 | Grades 2–3, Grades 4–5 | 304A

LEGO Education

### EXHIBITOR SESSION

### Structure and FUNction! Organ Dissection To Meet Your TEKS

ID: 60085 | Grades 6–8, Grades 9–12 | 301B

Carolina Biological Supply

### EXHIBITOR SESSION

### The Fluorescence Files: Decode Concealed Clues With Spectroscopy

ID: 60132 | Grades 9–12 | 302B

Vernier Science Education

### AFFILIATE SESSION

### ISEA Presents: Connecting Ants, Bird Beaks, and Wildlife Symbols

ID: 50325 | Pre-K–Grade 1, Grades 2–3 | 221C

**Amy Kamata**, 5th Grade Math/Science Teacher, Northeast ISD

### AFFILIATE SESSION

### TABT Presents: Tier 2 and Tier 3 Intervention for Biology STAAR

ID: 50356 | Grades 9–12 | 225A

**Amy Neville**, Science Department Chair, Anna ISD

## AFFILIATE SESSION

**TAE Present: Creating Young Birders—Using STEM Activities to Engage Students' Interests in Birds, Their Behavior, and Habitat**

ID: 50349 | Grades 4–5, Grades 6–8 | 225D

**Brett Mosley**, Director, Texas Tech University Outdoor Learning Center

## AFFILIATE SESSION

**TESTA Presents: Safe to Drink? Ground Water and Carbon Capture**

ID: 50367 | Grades 6–8, Grades 9–12 | 224

**Stephanie Hurst**, Science Department Chair, Cleveland Middle School; **Linda McCall**, Bureau Information Geologist and Resource Center Manager, Bureau of Economic Geology; **Cynthia Hopkins**, Middle School Science Teacher, Corpus Christi ISD

## EXHIBITOR SESSION

**Who's Baby Luna's Father? Using DNA Fingerprinting to Solve a Mystery**

ID: 60105 | Grades 9–12 | 301A

**Julie Anders**, Forensic Science Teacher, Northside ISD; **Christina Rivera**, Forensic Science and Chemistry Teacher, Northside ISD

## SESSIONS | 11:30 a.m.–12:30 p.m.

**5 Easy, Cheap Environmental Labs**

ID: 20030 | Grades 6–8, Grades 9–12 | 006A

**Candice Nichols**, HS Science Teacher, Crandall HS

**Connections in Electrochemistry for Positive Student Potential and Thermodynamically Favored Outcomes**

ID: 20330 | Grades 9–12 | 006B

**Amy Calhoun**, Dual Credit, Pre-AP Chemistry Teacher, Sabine High School

## EXHIBITOR SESSION

**From Circuits to Molecules: Biotech Basics for Middle School and General Bio**

ID: 60031 | Grades 6–8, Grades 9–12 | 302A

**Rose Chaffee-Cohen**, Curriculum Specialist, miniPCR & Genes in Space

**Binding Biology TEKS With 3-D Learning**

ID: 20064 | Grades 9–12 | 007A

**Rosemary Martin**, Consultant, Math & Science Cut Ups

## EXHIBITOR SESSION

**Constructing Science and Engineering Knowledge With LEGO Education**

ID: 60096 | Pre-K–Grade 12 | 304A  
LEGO Education

## EXHIBITOR SESSION

**From Sparks to Solutions: Brainstorming the Engineering Way**

ID: 60068 | Grades 6–8 | 008A

**Kristen Rillieux**, Senior District Partnership Strategist, BrainPOP

## EXHIBITOR SESSION

**BIOZONE's 'Biology for Texas': Discover Why This TEA-Adopted Resource Stands Out!**

ID: 60005 | Grades 9–12 | 304C

BIOZONE Corporation

## EXHIBITOR SESSION

**Do IPAs Give You a Case of Bitter Beer Face? Check Your Genetics!**

ID: 60110 | Grades 9–12 | 301A

**Lucretia Wise**, Science Department Chair/Biology Teacher, Hays CISD

**Building Language and Literacy in 5E With Talk, Read, Talk, Write and The Visual Non-Glossary**

ID: 20357 | Grades 2–3, Grades 4–5 | 221D

**Julie Gibson**, Consultant and Content Developer, Seidlitz Education

## EXHIBITOR SESSION

**Found a Box of Vernier Sensors in Your Classroom? Start Here!**

ID: 60123 | Grades 9–12, Pre-K–Grade 12 | 302B

Vernier Science Education



## Here Comes the Rain: Using the Engineering Design Process to Watch the Water Cycle in Action

ID: 20368 | Grades 2–3,  
Grades 4–5 | 217C

**Alyssa Vogel**, Teacher, Pasadena ISD

## Hydraulic Fracturing and Geothermal Energy: Diversifying Engineering and Technology Applications in the Energy Sector

ID: 20246 | Grades 9–12 | 221D

**Jon Olson, PhD**, Professor, UT Austin; **Sabrina Ewald**, Program Manager for Outreach, UT Austin Center for Subsurface Energy and the Environment; **Hilary Clement Olson, PhD**, Associate Professor of Instruction, UT Austin

## Integrating Engineering in Elementary Science Using Models

ID: 20188 | Grades 2–3,  
Grades 4–5 | 217B

**Jessica Robicheaux**, Assistant Director for Educational Leadership and STEM Initiatives, Rice University Office of STEM Engagement

### EXHIBITOR SESSION

## Introduction to Wisconsin Fast Plants

ID: 60081 | Grades 4–5,  
Grades 6–8 | 301B

Carolina Biological Supply

### AFFILIATE SESSION

## ISEA Presents: Environmental Stewardship and Connection to Place

ID: 50306 | Grades 6–8,  
Grades 9–12 | 221C

**Bess Price**, Education Manager, Meadows Center for Water and the Environment; **Miranda Wait**, Deputy Director of Spring Lake Operations, Meadows Center for Water and the Environment

## Let's Talk About Science: How to Launch Three-Dimensional Lessons Using "I Notice, I Wonder" Talk Routines

ID: 20211 | Grades 2–3,  
Grades 4–5 | 006C

**Michelle Forsythe**, Associate Professor of STEM Education, Texas State University

## Low-Balling Student Abilities: Scientific Inquiry and Related Math

ID: 20304 | Pre-K–Grade 12 | 006D

**Sandra West, PhD**, Associate Professor Emerita, Texas State University

## Making It Click for Little Scientists: The Power of Three-Dimensional Connections

ID: 20292 | Pre-K–Grade 1,  
Grades 2–3 | 217A

**Mayra Bernal**, Science Specialist, Region 1 ESC; **Danielle Zamora**, Science Specialist, Region 1 ESC

## Merging 3-D With 5E

ID: 20176 | Grades 2–3,  
Grades 4–5 | 007B

**Hanna Roach**, Education Specialist, Region 4 ESC

### EXHIBITOR SESSION

## Modeling Membrane Explorations: Real-World Connections With Wet Labs

ID: 60060 | Grades 9–12 | 301C

**Ruth Hutson**, Science Educator, 3D Molecular Designs

### EXHIBITOR SESSION

## POV: Influence Through Engineering Challenges

ID: 60155 | Grades 2–3,  
Grades 4–5 | 304B

**Sanobar Bhaidani**, Success Coach, Great Minds

## Searching for ET: Planetary Habitability and Exoplanets

ID: 20317 | Grades 6–8,  
Grades 9–12 | 217D

**Keely Finkelstein**, Associate Professor of Instruction, McDonald Observatory, UT Austin; **Judy Meyer, PhD**, K12 Education/Outreach Senior Program Coordinator, McDonald Observatory, UT Austin

### EXHIBITOR SESSION

## SOS Showdown: Inspiring Students With High-Yield Instructional Strategies

ID: 60111 | Pre-K–Grade 12 | 302C

**Paula Taylor**, Director, Partner Success, Discovery Education

## Start Your Engines: Middle School Physics Fun

ID: 20013 | Grades 6–8 | 209

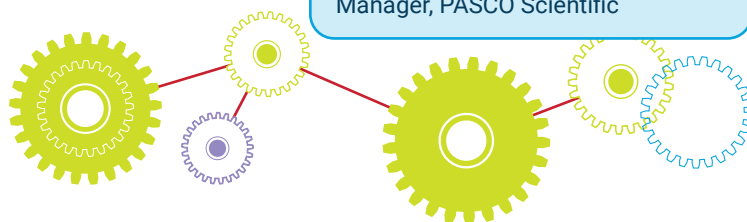
**Amy Rush**, Science Instructional Coach, Lufkin Middle School; **Becky Walker**, Science Teacher, Hudson ISD

### EXHIBITOR SESSION

## Stoichiometry: Visual and Hands-On Strategies for Student Success

ID: 60010 | Grades 9–12 | 303C

**Roger Palmer**, Chemistry Product Manager, PASCO Scientific



## THURSDAY WORKSHOPS

### EXHIBITOR SESSION

#### Sweet Science: Exploring Complex Mixtures With Biotechnology

ID: 60001 | Grades 6–8, Grades 9–12 | 305

Brian Ell, Chief Scientific Officer, Edvotek

### AFFILIATE SESSION

#### TCES Presents: Linking Three-Dimensional Learning and Data-Driven Instruction

ID: 50337 | Grades 4–5, Grades 6–8 | 225B

Gelyn Roble, Science Coordinator, Alief ISD

#### Using AI to Differentiate for Science Students

ID: 20203 | Pre-K–Grade 12 | 007D

Bruce Ellis, EdD, Director of Professional Development, TCEA

### AFFILIATE SESSION

#### TABT Presents: Interactive Cell Membrane Model

ID: 50329 | Grades 6–8, Grades 9–12 | 225A

Claire Vollmar, Education Consultant, TABT

### AFFILIATE SESSION

#### TESTA Presents: Minerals Matter

ID: 50363 | Grades 6–8, Grades 9–12 | 224

Kathryn Barclay, Retired, TESTA

#### What Are Students Really Thinking? Building a Bridge Between Commonly Held Ideas and the TEKS

ID: 50382 | Grades 4–5, Grades 6–8 | 221AB

Page Keeley, Author/Consultant

### AFFILIATE SESSION

#### TAEF Presents: How to Become a Texas Certified Environmental Educator

ID: 50331 | Pre-K–Grade 12 | 225D

Brian McDaniel, President, TAEF

#### Transforming Science Classrooms With AI: Innovations and Applications

ID: 20137 | Pre-K–Grade 12 | 220

Matthew Cushing, Executive Director, Rice University Office of STEM Engagement; Brittany Templeton, Assistant Director for Computer Science and Mathematics, Rice University Office of STEM Engagement

#### WILD About Outdoor Classrooms

ID: 20329 | Grades 2–3, Grades 4–5 | 216AB

Kimberly Ogden, Education Coordinator, CBBEP Education at the Nueces Delta Preserve; Sara Jose, Project WILD Coordinator, Texas Parks & Wildlife Department

### EXHIBITOR SESSION

#### Taking the Next Steps with Science Vocabulary

ID: 60134 | Pre-K–Grade 12 | 303B

Accelerate Learning

### AFFILIATE SESSION

#### TSELA Presents: So, You Want to Be a District Science Leader?

ID: 50310 | Pre-K–Grade 12 | 225C

Tina Hovance, Secondary Science Coordinator, Katy ISD; Ann Mulvihill, AVID Secondary Program Manager, Garland ISD

#### The Write Approach to the Short Constructed Response (SCR) Questions in Science

ID: 20036 | Grades 4–5, Grades 6–8 | 007C

Allen Wilson, ESC Region 20

## SESSIONS | 1:00 p.m.–2:00 p.m.

### EXHIBITOR SESSION

#### Accelerating Computer Science Learning With LEGO Education

ID: 60097 | Grades 6–8, Grades 9–12 | 304A

LEGO Education

### EXHIBITOR SESSION

#### BioArt: Exploring STEAM With Transformation

ID: 60002 | Grades 6–8, Grades 9–12 | 305

Brian Ell, Chief Scientific Officer, Edvotek

### EXHIBITOR SESSION

#### Bon Appétit: Explorations in Food Chemistry

ID: 60125 | Grades 9–12 | 302B

Vernier Science Education



## EXHIBITOR SESSION

**Circuits Made Easy:  
Untangle Your Circuit Labs!  
Experience the Best Way  
to Teach Basic Circuits!**

**ID: 60016 | Grades 9–12 | 303C**

**Jonathan Hanna**, Product Manager,  
HS Physics/STEM/Engineering,  
PASCO Scientific

**Engaging EB Students  
in Force, Motion, and  
Energy for the Purpose of  
Learning and Evaluation**

**ID: 20051 | Grades 6–8 | 007C**

**Gwinn North, PhD**, Assistant  
Professor, Tarleton State University;  
**Ricardo Lumbreras**, Associate  
Professor of Curriculum and  
Instruction, Tarleton State University

## EXHIBITOR SESSION

**Flailing or Flying: Supporting  
Students through  
Productive Struggle**

**ID: 60156 | Grades 2–3,  
Grades 4–5 | 304B**

**Caren Limbrick**, Implementation  
Support Specialist, Great Minds

## EXHIBITOR SESSION

**College Ready With AP Science**

**ID: 60075 | Grades 9–12 | 304C**

National Geographic Learning/  
Cengage Learning

## EXHIBITOR SESSION

**Enhancing Sensemaking With  
Recurring Themes and Concepts**

**ID: 60079 | Pre-K–Grade 12 | 217B**

**Tobi McMillan**, Co-Owner, Think Big  
Learning; **Marianne Dobrovlny**,  
Co-Owner, Think Big Learning

## EXHIBITOR SESSION

**How to Become a Shining Star  
During the STAAR Season**

**ID: 60174 | Grades 4–5,  
Grades 6–8 | 303A**

**Jesse Garcia**, Director of School  
Partnerships, Summit K12;  
**Tony Zahn**, Director of School  
Partnerships, Summit K12;  
**Cathy Harter**, Director of School  
Partnerships, Summit K12

**Decoding Rover Species:  
Dive Into Dichotomous  
Classification Adventure!**

**ID: 20190 | Grades 6–8,  
Grades 9–12 | 007D**

**Bridget Streeb**, Teacher, Lufkin ISD;  
**Lorelei Cummings**, Teacher, Lufkin  
ISD

## EXHIBITOR SESSION

**Exploring OpenSciEd Middle  
School From Carolina (6–8)**

**ID: 60028 | Grades 6–8 | 301B**

Carolina Biological Supply Company

**In My Forensics Era**

**ID: 20297 | Grades 9–12 | 217C**

**Tessah Zepeda**, Forensic Science  
Teacher, Los Fresnos High School

**Dimensional Dazzle: Crafting  
Agamographs Artistry for  
3-D Science Assessments**

**ID: 20340 | Grades 9–12 | 209**

**Ariana Kay**, Engineering Science and  
Design Teacher, Aledo ISD

**Exploring Science Through  
Creative Digital Media Projects**

**ID: 20259 | Grades 6–8 | 008B**

**Andrea Mann**, 8th Grade Science  
Teacher, Katy ISD; **Brittany  
Schwartz**, 8th Grade Science  
Teacher, Katy ISD; **Valeria Pineda**,  
8th Science Teacher, Katy ISD;  
**Krystal Waltman**, 8th Grade Science  
Teacher, Katy ISD

## AFFILIATE SESSION

**ISEA Presents: Riparian  
Zones Then and Now**

**ID: 50354 | Pre-K–Grade 12 | 221C**

**Michelle Crowell**, Science Teacher,  
Project WILD; **Michelle Crowell**,  
Science Teacher, Project WILD

## EXHIBITOR SESSION

**DNA Forensics Solves the  
Murder Mystery of Dr. Ward**

**ID: 60107 | Grades 9–12 | 301A**

**Brandi Elsayed**, Forensic Science  
Teacher, Northeast ISD

## EXHIBITOR SESSION

**“Figure-ing” It Out With  
BioInteractive Data Points  
and Phenomenal Images**

**ID: 60023 | Grades 6–8,  
Grades 9–12 | 216AB**

**Perri Carr**, High School Science  
Teacher, Northwest ISD; **Tim  
Guilfoyle**, Ambassador, hhmi  
BioInteractive

**It's Not Just Algebra:  
Assessing Student Thinking  
in Physics Problem Solving**

**ID: 20288 | Grades 6–8,  
Grades 9–12 | 007B**

**Christopher Moore, PhD**, Director,  
STEM TRAIL Center, University  
of Nebraska Omaha

**The Double Helix at 70:  
Searching for the Real Story**

**ID: 20015 | Grades 9–12 | 221D**

**Kenneth Miller, PhD**, Professor of  
Biology, Brown University

## THURSDAY WORKSHOPS

### Preventing Death by Lecture for All Pops

ID: 20271 | Grades 2–3,  
Grades 4–5 | 217D

**Cynthia Bagwill Amyx**, Retired  
Science Teacher, Instructional  
Science Coach, Pasadena ISD

AFFILIATE SESSION

### TABT Presents: Noodle Biology

ID: 50330 | Grades 9–12 | 225A

**Claire Vollmar**, Education  
Consultant, TABT

EXHIBITOR SESSION

### Transforming Science Through Multidimensional Learning

ID: 60135 | Pre-K–Grade 12 | 303B  
Accelerate Learning

EXHIBITOR SESSION

### Princes in the Tower: Use Forensic DNA Analysis to Solve a Historical Mystery

ID: 60041 | Grades 6–8,  
Grades 9–12 | 302A

**Kristin Hennessy-McDonald**,  
Curriculum Specialist, miniPCR bio

AFFILIATE SESSION

### TCES Presents: Connecting Inquiry Into Core Memories

ID: 50352 | Grades 2–3,  
Grades 4–5 | 225B

**Melissa Brown**, Elementary  
Science Curriculum Specialist, New  
Braunfels ISD

AFFILIATE SESSION

### TSAAPT Presents: Waves in Eighth Grade (TEKS 8.8A and 8.8B)

ID: 50343 | Grades 6–8 | 225D

**Janie Head**, Secondary Science  
Specialist, TSAAPT

EXHIBITOR SESSION

### Ready to LEGO and Think Critically With Mystery Science?

ID: 60112 | Grades 2–3,  
Grades 4–5 | 302C

**Paula Taylor**, Director, Partner  
Success, Discovery Education

AFFILIATE SESSION

### TESTA Presents: It's Just a Rock, or Is It?

ID: 50370 | Grades 4–5,  
Grades 6–8 | 224

**Kathryn Barclay**, Retired, TESTA

AFFILIATE SESSION

### TSELA Presents: Planning as a District Coordinator for Implementation of the New Science Standards While Building the Capacity of Science Campus Leaders

ID: 50302 | Pre-K–Grade 12 | 225C

**Beth Collins**, Secondary Science  
Coordinator, Frisco ISD

### STEM Experiences Guaranteed to Get Ooohs and Ahhhs!

ID: 20145 | Pre-K–Grade 12 | 217A

**Steve Spangler**, STEM Educator/  
Television Host

EXHIBITOR SESSION

### Uncooking the Egg: Modeling Protein Denaturation

ID: 60065 | Grades 9–12 | 301C

**Mark Arnholt**, Science Educator, 3D  
Molecular Designs

## SESSIONS | 2:30 p.m.–3:30 p.m.

AFFILIATE SESSION

### ACT2 Presents: The Art of Mathing Without Mathing— Chemistry Math Redone

ID: 50317 | Grades 9–12 | 225A

**Joel Morales**, Pre-AP Chemistry  
Teacher, IDEA North Mission

EXHIBITOR SESSION

### Ask Me Anything: Get the Hot Takes From the Hot Seat on 3-D Curriculum!

ID: 60157 | Grades 2–3,  
Grades 4–5 | 304B

**Erica Huang**, Success Lead, Great  
Minds

### Beachcombing the Beaches of the Gulf of Mexico

ID: 50314 | Pre-K–Grade 12 | 221AB

**Jace Tunnell**, Director of Community  
Engagement, Texas A&M University-  
Corpus Christi

## The Carbon Cycle and Climate Change

ID: 20009 | Grades 9–12 | 217C

**Katherine Hoover, PhD**, Clinical Assistant Professor, UT Arlington

## EXHIBITOR SESSION

## Channeling the Power of Purposeful Play With LEGO Education for Your Early Learners

ID: 60098 | Pre-K–Grade1 | 304A

LEGO Education

## EXHIBITOR SESSION

## DNA Exoneration and Wrongful Convictions

ID: 60108 | Grades 9–12 | 301A

**Brandi Elsayed**, Forensic Science Teacher, Northeast ISD

## EXHIBITOR SESSION

## EBs and the 5 Es: Strategies to Support Emergent Bilingual Students in Science

ID: 60136 | Grades 2–3, Grades 4–5 | 303B

Accelerate Learning

## Engage Students With Phenomena-Based Learning: Utilizing Zebrafish to Spark Scientific Curiosity and Support Science Advancement

ID: 20197 | Grades 9–12 | 007D

**Vinita Hajeri, PhD**, Associate Professor of Instruction, UT Dallas; **Pam Krikland**, Clinical Assistant Professor, UT Dallas

## Engaging Activities to Increase Retention in Science 2.0

ID: 20302 | Grades 6–8, Grades 9–12 | 008B

**Molly Niedens**, Science Instructional Coach, Katy ISD; **Courtney Lewis**, Instructional Coach, Katy ISD

## EXHIBITOR SESSION

## Enzymes and Evolution: Data Analysis Using HHMI BioInteractive Resources

ID: 60026 | Grades 9–12 | 216AB

**Jennifer Barnes**, Ambassador, HHMI BioInteractive

## EXHIBITOR SESSION

## Featured Creatures

ID: 60087 | Pre-K–Grade 12 | 301B

Carolina Biological Supply

## Forensic Entomology and Decomposition: Fascinating, Inexpensive, Hands-On Lessons, Demos, and Resources

ID: 20091 | Grades 6–8, Grades 9–12 | 221C

**Patricia Nolan Bertino**, Author and Presenter, National Geographic/Cengage Learning; **Anthony Bertino**, Author, Bertino Forensics

## EXHIBITOR SESSION

## From Code to Construction: Modeling Transcription and Translation Essentials

ID: 60061 | Grades 9–12 | 301C

**Ruth Hutson**, Science Educator, 3D Molecular Designs

## Hands-On Middle School Science

ID: 20168 | Grades 6–8 | 007C

**Heidi Launius**, Ed Science Subject Matter Expert, School Specialty

## EXHIBITOR SESSION

## How to Become a Shining Star During the STAAR Season

ID: 60174 | Grades 4–5, Grades 6–8 | 303A

**Jesse Garcia**, Director of School Partnerships, Summit K12; **Tony Zahn**, Director of School Partnerships, Summit K12; **Cathy Harter**, Director of School Partnerships, Summit K12

## EXHIBITOR SESSION

## Igniting AHA! Moments in Science: Exploring DE's Dynamic Digital Ecosystem

ID: 60124 | Grades 2–3, Grades 6–8 | 302C

**Justin Karkow**, Vice President of Teaching & Learning, Discovery Education

## Inquiry-Based Lessons for People and the Planet

ID: 20144 | Grades 6–8 | 007B

**Jan Seiter, EdD**, Teacher, Northside ISD

## EXHIBITOR SESSION

## Introducing Your Students to CRISPR With Sickle Cell Gene Editing

ID: 60003 | Grades 6–8, Grades 9–12 | 305

**Brian Ell**, Chief Scientific Officer, Edvotek

For complete session descriptions and speaker bios, visit the **STATCAST Mobile App!**



## THURSDAY WORKSHOPS

### Lasso the New Force and Motion TEKS!

ID: 20336 | Grades 6–8 | 221D

**Emma Arett**, 7th Grade Science Teacher, Solar Preparatory School for Girls

### New From Deep in the Heart: Bats

ID: 20146 | Pre-K–Grade 12 | 217A

**Anne Marie Fayen**, Curriculum Developer and Instructional Designer, Fayen Consulting, LLC

#### EXHIBITOR SESSION

### Phenomenon-Based Learning Through the Eyes of National Geographic Explorers

ID: 60072 | Pre-K–Grade 12 | 217B

National Geographic Learning/Cengage Learning

#### EXHIBITOR SESSION

### Simplify Photosynthesis With Sensors!

ID: 60017 | Grades 6–8, Grades 9–12 | 303C

**Roger Palmer**, Chemistry Product Manager, PASCO Scientific

### Smart Learning: Empowering Education Through Artificial Intelligence—Bridging Gaps Through Application

ID: 20254 | Grades 6–8, Grades 9–12 | 217D

**Ericka Jones**, Instructional Coach, Suttle Freeman

#### AFFILIATE SESSION

### TCES Presents: You Can't Teach Science Through Fairytales . . . OH, YES YOU CAN!

ID: 50336 | Grades 2–3, Grades 4–5 | 225B

**Kelly Suarez**, Elementary Science Curriculum Coordinator, Northwest ISD; **Rocco Williams**, K–12 Science Curriculum Coordinator, Fort Worth ISD

#### EXHIBITOR SESSION

### TEKS-Aligned PCR Activities for the Biology Classroom

ID: 60042 | Grades 9–12 | 302A

**Kristin Hennessy-McDonald**, Curriculum Specialist, miniPCR bio

#### AFFILIATE SESSION

### TESTA Presents: Born Under the Silvery Moon

ID: 50371 | Grades 4–5, Grades 6–8 | 224

**Kathryn Barclay**, Retired, TESTA

#### AFFILIATE SESSION

### TSAAPT Presents: All About Energy—What Does That Form Really Mean?

ID: 50340 | Grades 2–3, Grades 4–5 | 225D

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas; **Stephanie Taylor, PhD**, Associate Professor of Instruction, UT Dallas

#### EXHIBITOR SESSION

### Uncover the Depth of BIOZONE's High School Science Resources for Texas

ID: 60006 | Grades 9–12 | 304C

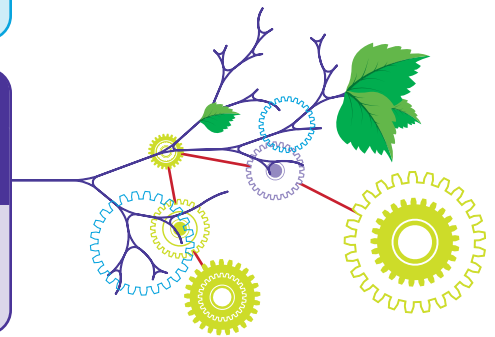
BIOZONE Corporation

#### EXHIBITOR SESSION

### Urgent Lessons: Measuring the Effects of Climate Change

ID: 60048 | Grades 9–12 | 302B

Vernier Science Education



## SESSIONS | 4:00 p.m.–5:00 p.m.

### Algae Adventures: Unlocking the Secrets of Photosynthesis and Respiration!

ID: 20142 | Grades 9–12 | 006D

**Karen Davis**, AP Biology Consultant, Retired

#### EXHIBITOR SESSION

### Biotechnology Basics: Exploring Agarose Gel Electrophoresis

ID: 60004 | Grades 6–8, Grades 9–12 | 305

**Brian Ell**, Chief Scientific Officer, Edvotek

#### EXHIBITOR SESSION

### Can You Escape the Discovery Education Room?

ID: 60113 | Pre-K–Grade 12 | 302C

**Paula Taylor**, Director, Partner Success, Discovery Education; **Evan Sanchez**, Partner Success Manager, Discovery Education; **Alex Lagares**, Regional Vice President, Educational Partnerships, Discovery Education



## Cracking the Code: Engaging Strategies for CER Essay Writing

ID: 20157 | Grades 4–5, Grades 6–8 | 217C

**Christina Hayes**, 5th Grade Teacher, Grapevine-Colleyville ISD

## Exploring Physics Phenomena: A Modeling Approach

ID: 20319 | Grades 9–12 | 217D

**Kaitlyn Poploski**, Physics Teacher, Katy ISD; **Jennifer Slater**, Teacher, Taylor High School

EXHIBITOR SESSION

## Investigating Force, Motion, and Energy With LEGO Education

ID: 60099 | Grades 4–5, Grades 6–8 | 304A

LEGO Education

EXHIBITOR SESSION

## Crash Cushion Design Challenge: A Lesson on Collisions

ID: 60018 | Grades 6–8, Grades 9–12 | 303C

**Jonathan Hanna**, Product Manager HS Physics/STEM/Engineering, PASCO Scientific

## For the Love of CT! Computational Thinking in the Middle and High School Science Classroom

ID: 20314 | Grades 6–8, Grades 9–12 | 007A

**Denise Gregory**, Master Teacher, UT Dallas; **Amin Lalani**, Master Teacher, UT Dallas; **Emily Hennessy**, Assistant Professor of Instruction, UT Dallas

EXHIBITOR SESSION

## Investigating the Phenomenon of Energy Transfer (K–5)

ID: 60045 | Grades 4–5 | 301B

Carolina Biological Supply Company

EXHIBITOR SESSION

## Discovering Lemur Diversity: Teaching Conservation Genetics Through an Authentic Case Study

ID: 60032 | Grades 9–12 | 302A

**Kristin Hennessy-McDonald**, Curriculum Specialist, miniPCR bio

EXHIBITOR SESSION

## From Words to Wonders: Integrating Science and the Science of Reading

ID: 60150 | Grades 2–3, Grades 4–5 | 304C

**Sadee Crain**, Curriculum Specialist, EduSmart; **Andrea Hopkins**, Account Representative, EduSmart

## Let's Talk About Science: How to Support Data Analysis in Three-Dimensional Lessons Using "Data Discussion" Talk Routines

ID: 20212 | Pre-K–Grade 1, Grades 2–3 | 217A

**Michelle Forsythe**, Associate Professor of STEM Education, Texas State University

## Enhancing Biology Education: Implementing Hands-On 3-D Projects in the Classroom

ID: 20023 | Grades 6–8, Grades 9–12 | 007C

**Ashton Barrera**, Biology Teacher, Venus ISD

EXHIBITOR SESSION

## Instrucción científica fenomenal: De la observación a la comprensión

ID: 60169 | Pre-K–Grade 8 | 303A

**Elizabeth Gonzalez**, Content Team, Summit K12; **Janie Leal**, Content Author, Summit K12

## Leveraging AI for TEKS-Aligned Engineering Design Challenges

ID: 20355 | Grades 6–8, Grades 9–12 | 007D

**Pamela Simmons-Brooks**, Program Manager, Texas A&M University

EXHIBITOR SESSION

## Enzymatic Explorations: Why Does Ice Cream Make Me Gassy?

ID: 60126 | Grades 9–12 | 302B

Vernier Science Education

## Integrating STEM Into Any Classroom

ID: 20171 | Grades 4–5 | 221D

**Desurae Matthews**, Education Program Manager, Learning Undeafed; **Katie Askelson**, Education Program Coordinator, Learning Undeafed

## Manufacture Your Path: Bringing Manufacturing Careers to the School Parking Lot

ID: 20116 | Grades 6–8, Grades 9–12 | 225A

**Kristin Diamantides**, Curriculum and Instructional Design Manager, Learning Undeafed; **Ali Main**, Senior Manager, Events and Technical Experiences, Learning Undeafed

## THURSDAY WORKSHOPS

### EXHIBITOR SESSION

#### Mind the Gap: Addressing Challenges With Grade 8 STAAR for 2025

ID: 60078 | Grades 6–8 | 217B

**Tobi McMillan**, Co-Owner, Think Big Learning; **Marianne Dobrovlny**, Co-Owner, Think Big Learning

### EXHIBITOR SESSION

#### STEMscopes Implementation Training

ID: 60137 | Pre-K–Grade 12 | 303B

Accelerate Learning

### EXHIBITOR SESSION

#### Transforming Middle School Science: AR/VR Meets TEKS for Phenomenal Learning

ID: 60073 | Grades 4–5, Grades 6–8 | 216AB

**Sheena Shoemaker**, Senior Customer Success Manager, zSpace

### AFFILIATE SESSION

#### TCES Presents: Elementary Science Educators Networking and Idea Exchange—Sharing Innovations and Insights (Day 1)

ID: 50321 | Grades 2–3, Grades 4–5 | 225B

**Rocco Williams**, K–12 Science Curriculum Coordinator, Fort Worth ISD

### AFFILIATE SESSION

#### TSAAPT Presents: Bridging EM to Quantum With Planck's Constant

ID: 50379 | Grades 9–12 | 225D

**Rachel Smith**, Teacher, Lubbock ISD; **Ashley Fiamengo**, Teacher, Irving ISD

#### Models Aren't Just 3-D! Use System Models to Improve Conceptual Understanding of Science and Phenomena

ID: 20291 | Grades 4–5, Grades 6–8 | 006B

**Jessica Rowell**, Co-Founder, RPA TREKS

#### The Mole and Stoichiometry

ID: 20037 | Grades 9–12 | 006A

**Jenny Fajkus**, Science Teacher, Giddings High School

#### TEA Presents: Science Resources

ID: 50373 | Pre-K–Grade 12 | 220

**Liz Baker**, Secondary Science Specialist, Texas Education Agency; **Carla Bailey**, Elementary Math and Science Content Specialist, Texas Education Agency

### AFFILIATE SESSION

#### TSELA Presents: Science Leader as Coach

ID: 50312 | Pre-K–Grade 12 | 225C

**Derek McDowell**, Coordinator, Frisco ISD

#### Paperless Pages: Navigating Digital Journaling With Ease

ID: 20027 | Grades 6–8, Grades 9–12 | 209

**Kayla Fuller**, 8th Grade Science Teacher, Hallsville ISD; **Miranda Rice**, 8th Grade Science Teacher, Hallsville Jr. High

### AFFILIATE SESSION

#### TESTA Presents: S.O.A.R. — Solar, Ocean, Atmosphere and Reactions

ID: 50364 | Grades 4–5, Grades 6–8 | 224

**Kathryn Barclay**, Retired, TESTA

#### Unlocking Potential: Empowering Students Through Engaging Long-Term Investigations

ID: 20326 | Grades 4–5, Grades 6–8 | 007B

**Morgan Castillo**, TCES Regional VP, Baylor University; **Julie Rush**, Secondary Science and Math Curriculum Coordinator, Midway ISD; **Lora Tepe**, Teacher, Midway ISD; **Cody Lassetter**, Teacher, Midway ISD; **Tracey Sualk, PhD**, Clinical Associate Professor, Baylor University

#### Peak Oil Game: Hands-On Learning on Earth's Energy Resources

ID: 20281 | Grades 6–8, Grades 9–12 | 221C

**Bryce Henderson**, Secondary Science Curriculum Specialist, Wichita Falls ISD

#### Three-Dimensional Instruction in the Secondary Science Classroom

ID: 50348 | Grades 6–8, Grades 9–12 | 221AB

**Paul Andersen**, Education Consultant, Bozemanscience.com

For complete session descriptions and speaker bios, visit the **STATCAST Mobile App!**

### EXHIBITOR SESSION

#### Walk the Walk and Talk the Talk . . . Like a Scientist

ID: 60159 | Grades 2–3,  
Grades 4–5 | 304B

Caren Limbrick, Implementation  
Support Specialist, Great Minds

#### What Makes a Habitable World? Exploring the Solar System and Beyond

ID: 20334 | Grades 2–3,  
Grades 6–8 | 006C

Mary Urquhart, PhD, Associate  
Professor and Department Head, UT  
Dallas

### EXHIBITOR SESSION

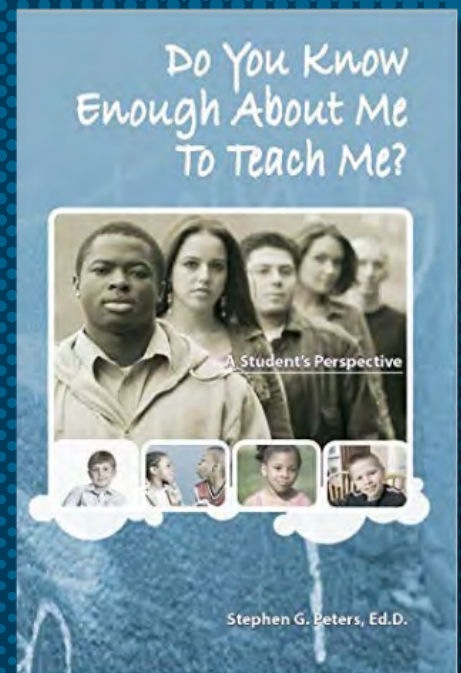
#### You Are What You Eat! Taking Macromolecules to Micro!

ID: 60093 | Grades 9–12 | 301A

Leilani Heist, AP/DC Biology and  
Aquatic Science Teacher, Northside  
ISD



## Explore How You Can Better Support All Students



### *Do You Know Enough About Me to Teach Me?*

Stephen G. Peters

Fall 2024–Spring 2025



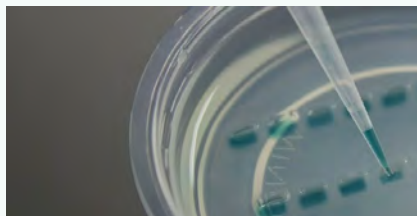
# MEET THE NEW BIO TEKS



Affordable equipment & hands-on activities for biology class & beyond.

**BOOTH  
#514**

## Pipetting – B.1(D)



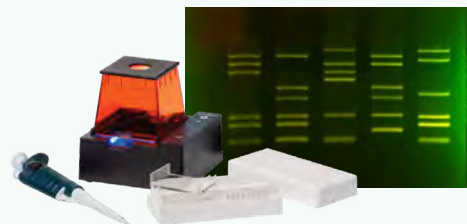
### Gel Loading Practice Kit (M3002)

Master loading, handling, and dispensing liquids with micropipettes– essential biotech lab skills.

## Electrophoresis – B.1(D) & B.7(D)

### MiniOne Electrophoresis System (M1002)

All-in-one, teacher and student-friendly electrophoresis system allows for complete labs in a single class period. No Weak Bands!



## Polymerase Chain Reaction – B.1(D) & B.7(D)



### MiniOne PCR System (M4000)

16-sample, robust thermocycler + accompanying labs help make PCR more engaging than ever.

## Biomolecules – B.5(A)

### Taking Macromolecules to Micro! MiniLab (M3014)

Get hands-on opportunities to test known and unknown samples for presence of each biomolecule.



[tinyurl.com/MiniOne-TX](http://tinyurl.com/MiniOne-TX)

**JOIN US FOR HANDS-ON  
WORKSHOPS LED BY TEXAS  
TEACHERS IN ROOM 301A!**



# Friday at-a-Glance Schedule

Plan your day and personalize your CAST experience. For general workshop and session information, turn to pages 46–61. For complete workshop and session descriptions, please visit the [STATCAST](#) mobile app.

TIME	EVENT	LOCATION
7:30 a.m.–4:30 p.m.	Registration & Information	Hall 2
8:00 a.m.–9:00 a.m.	Workshops	Meeting Rooms
8:00 a.m.–10:00 a.m.	Extended Sessions	Meeting Rooms
9:00 a.m.–5:00 p.m.	Exhibit Hall Open	Hall 2
9:30 a.m.–10:30 a.m.	Workshops	Meeting Rooms
11:00 a.m.–12:00 p.m.	Workshops	Meeting Rooms
12:30 p.m.–1:30 p.m.	Workshops	Meeting Rooms
2:00 p.m.–3:00 p.m.	Workshops	Meeting Rooms
2:30 p.m.–4:30 p.m.	Extended Sessions	Meeting Rooms
3:30 p.m.–4:30 p.m.	Workshops	Meeting Rooms
4:30 p.m.–6:15 p.m.	"Chasing the Tide" Series Screening	221AB

## FRIDAY PLANNING FORM

TIME	1ST CHOICE	2ND CHOICE	3RD CHOICE
8:00 a.m.–9:00 a.m.			
8:00 a.m.–10:00 a.m.			
9:30 a.m.–10:30 a.m.			
11:00 a.m.–12:00 p.m.			
12:30 p.m.–1:30 p.m.			
2:00 p.m.–3:00 p.m.			
2:30 p.m.–4:30 p.m.			
3:30 p.m.–4:30 p.m.			
5:00 p.m.–6:15 p.m.	"Chasing the Tide" Series Screening		

# Friday Highlights

## FEATURED SPEAKERS

### PAUL ANDERSEN | Consultant & Content Creator

Three-Dimensional Instruction in  
the Elementary Science Classroom  
8:00 a.m.–9:00 a.m. | 220

Three-Dimensional Instruction in  
the Secondary Science Classroom  
2:00 p.m.–3:00 p.m. | 220

Paul Andersen is an educational consultant and YouTube creator living in Bozeman, Montana. Paul is an experienced educator having taught science in Montana for 20 years. He has spent the last 10 years providing professional development on inquiry and three-dimensional instruction around the world.



### ARLEVIA DAVIS | Science Instructional Specialist/Teacher

Make Learning Stay With SciYonce  
12:30 p.m.–1:30 p.m. | 221AB

Arlevia Davis has been in public education for 20 years across grades K–12. She has served as a teacher, teacher-mentor, team lead, department chair, and science specialist. Her teaching strategies are a product of her passion to teach science in an engaging yet effective manner.



### JULIE JACKSON | Science Education Researcher

Interactive Word Walls: A Powerful  
Universal Design for Learning Tool  
8:00 a.m.–9:00 a.m. | 221AB

Julie Jackson, Ph.D., associate professor at Texas State University, developed interactive word walls, which have transformed K–12 science and vocabulary instruction. Her main research interest is the seamless integration of research-based practices into the day-to-day planning and execution of highly-effective, TEKS-aligned science instruction that benefits diverse populations.



### MATT WELLS | Educator, Consultant, Trainer

Phenomenal Phenomena: Using  
Discrepant Events to Trigger Inquiry  
2:00 p.m.–3:00 p.m. | 342BCEF

Matt Wells is an award-winning teacher, science department chair, AP consultant, GT trainer, and workshop presenter based in Houston, Texas. A dynamic speaker and Past President of both the Science Teachers Association of Texas and the Texas Association of Biology Teachers, Matt loves helping teachers apply neuroscience to the classroom.



### OKHEE LEE | Award-Winning National Speaker

Asset-Oriented Framing of  
Science and Language Learning  
With Multilingual Learners  
9:30 a.m.–10:30 a.m. | 221AB

Okhee Lee is a professor in the Steinhardt School at New York University. She is committed to advancing research, policy, and practice that promote STEM and language learning for all students, particularly multilingual learners. Lee served as leader for the Next Generation Science Standards (NGSS) Diversity and Equity Team.



## PLUS!

### SPECIAL PANEL DISCUSSIONS

**STAT Presents: Hurricanes—  
Where the Sciences Collide!**  
11:00 a.m.–12:00 p.m. | 221AB

Discover the impact of interdisciplinary science instruction as education leaders from STAT's Affiliate organizations showcase diverse approaches to understanding hurricanes.

**Science Stories for Young Minds:  
A Panel With Children's Authors**  
3:30 p.m.–4:30 p.m. | 221AB

Explore the intersection of science and storytelling during a panel discussion featuring renowned children's book authors who specialize in science-based stories, including Evan Griffith, Carol Kim, and PJ Hoover.

# Friday Extended Sessions

Two-hour courses that provide more in-depth looks at specific topics. Extended Sessions are open to all attendees on a first-come, first-served basis. For complete descriptions of the Extended Sessions, please visit the [STATCAST](#) mobile app.

## EXTENDED SESSIONS | 8:00 a.m.–10:00 a.m.

### Demystifying the Science and Engineering Practices

ID: 20192 | Grades 4–5, Pre-K–Grade 12 | 006D

**Rhoda Goldberg, PhD**, Director of Science, Spring Branch ISD; **Erika Force**, Elementary Science Coordinator, Spring Branch ISD; **Nasreen Mohajer**, Elementary Teacher Development Lead, Spring Branch ISD; **Carla Pace**, Secondary Science Teacher Development Specialist, Spring Branch ISD; **Baily Dizdar**, Secondary Science Coordinator, Spring Branch ISD

### AFFILIATE SESSION

### TCES Presents: STEM Spectacular

ID: 50335 | Grades 2–3, Grades 4–5 | 225B

**Kelly Suarez**, Elementary Science Coordinator, TCES

### AFFILIATE SESSION

### TSELA Presents: Empowering Administrators—A Guide to Implementing the New Science Standards

ID: 50305 | Pre-K–Grade 12 | 225C

**Ashley Carter, PhD**, 6–12 Science Coordinator, Plano ISD; **Rama Chintapalli**, 6–12 Science Coordinator, Donna ISD; **Brianna Morris**, 6–12 Science Coordinator, Denton ISD

### Harness the Power of Yeast

ID: 20067 | Grades 9–12 | 006A

**Michaelle Coker, EdD**, High School Science Teacher, Central Heights ISD; **Jordan Bartels**, Associate Director, Texas Farm Bureau, Agriculture in the Classroom; **Carson Read**, Educational Outreach Coordinator, Texas Farm Bureau, Agriculture in the Classroom

### TEKS, SEPs, and RTCs . . . Oh My! Making the New Standards a Fairy Tale Come True

ID: 20214 | Grades 2–3, Grades 4–5 | 006B

**Caitlin Couch**, Science Coordinator, Ector County ISD; **Paula Taylor**, Director, Partner Success Discovery Education

### AFFILIATE SESSION

### TESTA Presents: Plate Tectonics Rocking Our World

ID: 50365 | Grades 4–5, Grades 6–8 | 224

**Lale Bilir**, Retired, TESTA

### Using Project-Based Learning (PBL) to Make Real-World Connections

ID: 20295 | Grades 6–8, Grades 9–12 | 006C

**Jamie Corder**, Science Department Chair, Venus ISD

## EXTENDED SESSIONS | 2:30 p.m.–4:30 p.m.

### Can Your Barn Win the Triple Crown?

ID: 20065 | Grades 9–12 | 006A

**Michaelle Coker, EdD**, High School Science Teacher, Central Heights ISD; **Jordan Bartels**, Associate Director, Texas Farm Bureau, Agriculture in the Classroom; **Carson Read**, Educational Outreach Coordinator, Texas Farm Bureau, Agriculture in the Classroom

### Designing for Others: A Human-Centered Approach to Engineering Design

ID: 20084 | Pre-K–Grade 12 | 006C

**Mariana Quinn**, Assistant Director for Science Education, Rice University Office of STEM Engagement; **Brittany Templeton**, Assistant Director for Computer Science and Mathematics, Rice University Office of STEM Engagement

### Inclusive Science: Strategies for Supporting SPED Students in Intermediate Classrooms

ID: 20222 | Grades 6–8 | 006D

**Sarah Husvar**, 7th Grade Science Teacher, Clear Creek ISD; **Alexses Fitzgerald**, Department Lead of Special Programs, League City Intermediate School

## FRIDAY EXTENDED SESSIONS

### AFFILIATE SESSION

#### **TSELA Presents: The Road to Results—Building a Theory of Action**

**ID: 50300 | Pre-K–Grade 12 | 225C**

**Jennifer Culver**, Science Consultant, Region 10 ESC; **Samantha Bradbury**, K–12 Science Consultant, Region 10 ESC; **Staci Barker**, Research & Strategic Priorities Analyst, Region 10 ESC

### AFFILIATE SESSION

#### **TABT Presents: 2024 Annual Meeting With Special Guest Presentation**

**ID: 50351 | Pre-K–Grade 12 | 225A**

**Chris Carrell**, Teacher, Llano ISD

### AFFILIATE SESSION

#### **TESTA Presents: TESTA Rock Raffle**

**ID: 50360 | Grades 4–5, Grades 6–8 | 224**

**Kathryn Barclay**, Retired, TESTA



## Congratulations From STAT to the 2023–2024 PAEMST Science Finalists



**AMBER CHALMERS**  
**LANCASTER ISD**



**KAYA JONES**  
**PLANO ISD**



**LINDSEY LEIKER**  
**FORT BEND ISD**

The Presidential Awards for Excellence in Mathematics and Science Teaching honor passionate, strong, effective educators across the nation in math, science, technology, engineering, and mathematics. Each state nominates finalists in the broad areas of math and science. Those finalists go on to compete at the national level.



# Friday Workshops

One-hour presentations by individuals or groups in a classroom setting. Open to all conference attendees on a first-come, first-served basis. For complete descriptions of the Workshops, please visit the [STATCAST](#) mobile app.

## SESSIONS | 8:00 a.m.–9:00 a.m.

### AFFILIATE SESSION

#### ACT2 Presents: The Care and Keeping of a Stockroom

ID: 50303 | Grades 6–8, Grades 9–12 | 225A

**Nicole Lyssy**, Teacher, Curriculum Design, ACT2

#### Creative Assessment Strategies for STEM Teaching

ID: 20138 | Grades 6–8, Grades 9–12 | 008A

**Kellie States**, Marketing Event Planner, Estes Rockets

### EXHIBITOR SESSION

#### From Code to Construction: Modeling Transcription and Translation Essentials

ID: 60061 | Grades 9–12 | 301C

**Ruth Hutson**, Science Educator, 3D Molecular Designs

### EXHIBITOR SESSION

#### Bring Molecular Genetics to Your Biology Classroom With PTC Tasting

ID: 60033 | Grades 9–12 | 302A

**Robert Dennison**, Independent Educational Consultant/Retired Biology Teacher, TABT

### EXHIBITOR SESSION

#### Developing and Using Scientific Models in the Science Classroom

ID: 60138 | Grades 4–5, Grades 6–8 | 303B

Accelerate Learning

### EXHIBITOR SESSION

#### Fungus Among Us: Valley Fever

ID: 60088 | Grades 9–12 | 301A

**Glenda Goh Denison**, PD and Minilab Development Manager, MiniOne Systems

### EXHIBITOR SESSION

#### Building Future-Ready Middle School Students With LEGO Education

ID: 60100 | Grades 6–8 | 304A

LEGO Education

### EXHIBITOR SESSION

#### Elementary School Teachers Sparking Curiosity: A Hands-On, Immersive, and Musical Experience

ID: 60114 | Grades 2–3, Grades 4–5 | 302C

**Evan Sanchez**, Partner Success Manager, Discovery Education

#### Game on! Using Research-Based Strategies to Enhance Phenomena-Based Science TEKS Conversations in All Grade Levels

ID: 20161 | Grades 4–5, Grades 6–8 | 007D

**Pam Kirkland**, Master Teacher, UT Dallas; **Emily Hennessy**, Assistant Professor of Instruction, UT Dallas

#### Capturing Young Hearts: Literature's Role in Science Education

ID: 20327 | Pre-K–Grade 1, Grades 2–3 | 008B

**Amy Finn**, 3rd Grade Math/Science Teacher, Northwest ISD

#### Engaging STAAR Review With Minute to Win It

ID: 20262 | Grades 6–8 | 007B

**Krystal Waltman**, 8th Grade Science Teacher, Katy ISD; **Brittany Schwartz**, 8th Grade Science Teacher, Katy ISD; **Valeria Pineda**, 8th Grade Science Teacher, Katy ISD; **Andrea Mann**, 8th Grade Science Teacher, Katy ISD

### EXHIBITOR SESSION

#### Hands-On Physics Learning With Vernier Photogates

ID: 60127 | Pre-K–Grade 12 | 302B

Vernier Science Education

### EXHIBITOR SESSION

#### College Ready With AP Science

ID: 60075 | Grades 9–12 | 217B

National Geographic Learning/Cengage Learning

#### Exploring Ecosystems in All Three Dimensions

ID: 20110 | Grades 2–3, Grades 4–5 | 217A

**Erica Cray**, 5th Grade Science Teacher, Brazosport ISD

For complete session descriptions and speaker bios, visit the [STATCAST Mobile App!](#)

## Interactive Word Walls: A Powerful Universal Design for Learning Tool

ID: 50386 | Pre-K–Grade 12 | 221AB

**Julie Jackson**, Associate Professor, Texas State University

## Nerd Club: Why Your Students Need YOU to Start Something New!

ID: 20280 | Grades 6–8, Grades 9–12 | 217C

**Bryce Henderson**, Secondary Science Curriculum Specialist, Wichita Falls ISD

AFFILIATE SESSION

## TSAAPT Presents: Data, Data, Data! Use Data From Phenomena to Drive Science Learning

ID: 50320 | Grades 9–12 | 225D

**Jimmy Newland, PhD**, CS Education Specialist, Texas Advanced Computing Center; **Eric Friberg**, Biology Teacher, Content Director, ISD 197, Pivot Interactives

AFFILIATE SESSION

## ISEA Presents: Engaging All Ages With Deep-Sea Habitats and Restoration

ID: 50316 | Grades 6–8, Pre-K–Grade 12 | 221C

**Sasha Francis**, Gulf Restoration Education & Outreach Manager, National Marine Sanctuary Foundation

EXHIBITOR SESSION

## POV: Influence Through Engineering Challenges

ID: 60155 | Grades 2–3, Grades 4–5 | 304B

**Sanobar Bhaidani**, Success Coach, Great Minds

EXHIBITOR SESSION

## Why Can't My Students FOCUS?!?

ID: 60014 | Grades 6–8, Grades 9–12 | 216AB

Texas Instruments

EXHIBITOR SESSION

## Journey Through the Heart

ID: 60082 | Grades 6–8, Grades 9–12 | 301B

Carolina Biological Supply

## STEM Stories: Boosting Scientific Literacy

ID: 20360 | Grades 2–3, Grades 4–5 | 217D

**Heather Domjan, EdD**, Clinical Associate Professor, University of Houston; **Emma Johnson**, Educational Outreach, Science and Engineering Fair of Houston

## Wind Can Do Work!

ID: 20207 | Grades 6–8, Grades 9–12 | 007C

**Kimberly Swan**, Outreach and Evaluation Coordinator, National Energy Education Development Project

EXHIBITOR SESSION

## Making Sense With Writing: CER Is for EVERYONE!

ID: 60168 | Pre-K–Grade 5 | 303A

**Shannon John**, Content Team, Summit K12; **Katherine McCaffrey**, Content Author, Summit K12; **Julee Vorachard**, Content Author, Summit K12

EXHIBITOR SESSION

## Think Simple, Prep Smart: STAAR Science Stations by EduSmart

ID: 60151 | Pre-K–Grade 12 | 304C

**Leah Pinto**, Director of Professional Development, EduSmart

## Wipro Presents: STEMtastic Afterschool Club

ID: 20099 | Grades 4–5 | 008B

**Shelby Allen**, 5th Grade Science Teacher, Denton ISD

## May the Force Be With You

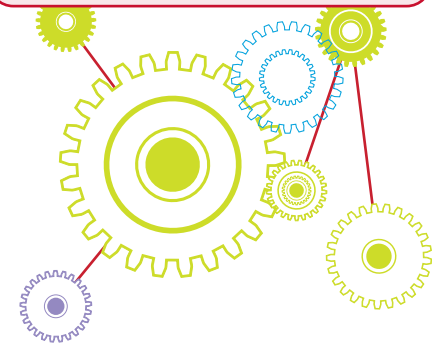
ID: 20235 | Grades 6–8, Grades 9–12 | 221D

**Collin Wassilak**, Arbor Scientific

## Three-Dimensional Instruction in the Elementary Science Classroom

ID: 50347 | Grades 2–3, Grades 4–5 | 220

**Paul Andersen**, Education Consultant, Bozemanscience.com



**SESSIONS | 9:30 a.m.–10:30 a.m.**
**AFFILIATE SESSION**
**ACT2 Presents: Periodic Tables in all Sizes and Shapes**

**ID: 20263 | Grades 6–8, Grades 9–12 | 225A**

**Stephanie Taylor, PhD**, Associate Professor of Instruction, UT Dallas

**Building Efficient Simple Investigations**

**ID: 20101 | Pre-K–Grade 12 | 220**

**Christopher Garside**, Owner, Seven Sides Publishing

**EXHIBITOR SESSION**
**Flailing or Flying: Supporting Students Through Productive Struggle**

**ID: 60156 | Grades 2–3, Grades 4–5 | 304B**

**Caren Limbrick**, Implementation Support Specialist, Great Minds

**EXHIBITOR SESSION**
**The Case of the Murdered Mayor**

**ID: 60084 | Grades 6–8, Grades 9–12 | 301B**

Carolina Biological Supply

**EXHIBITOR SESSION**
**Igniting AHA! Moments in Science: Exploring DE's Dynamic Digital Ecosystem**

**ID: 60124 | Grades 2–3, Grades 6–8 | 302C**

**Justin Karkow**, Vice President of Teaching & Learning, Discovery Education

**EXHIBITOR SESSION**
**Effectively Selecting, Enhancing, and Utilizing Phenomena**

**ID: 60077 | Pre-K–Grade 12 | 304C**

**Tobi McMillan**, Co-Owner, Think Big Learning; **Marianne Dobrovlny**, Co-Owner, Think Big Learning

**EXHIBITOR SESSION**
**Instructional Strategies for Teaching Physics**

**ID: 60074 | Grades 9–12 | 217B**

National Geographic Learning/Cengage Learning

**Asset-Oriented Framing of Science and Language Learning With Multilingual Learners**

**ID: 50380 | Grades 2–3, Grades 4–5 | 221AB**

**Okhee Lee, PhD**, Professor, New York University; **JW Marshall**, Vice President of Marketing, Summit K12

**EXHIBITOR SESSION**
**Engage Students in Genetics Through Space Biology**

**ID: 60034 | Grades 6–8, Grades 9–12 | 302A**

**Marc Bliss**, Genes in Space Program Lead, miniPCR & Genes in Space

**EXHIBITOR SESSION**
**Introduction to Vernier: The Basics for Beginners**

**ID: 60128 | Grades 9–12, Pre-K–Grade 12 | 302B**

Vernier Science Education

**EXHIBITOR SESSION**
**Biotechnology Equity: Making Biotechnology Accessible Through Modeling and Design Challenges**

**ID: 60064 | Grades 9–12 | 301C**

**Mark Arnholt**, Science Educator, 3D Molecular Designs

**EXHIBITOR SESSION**
**BIOZONE WORLD: Elevate Your Teaching With BIOZONE's Digital Platform**

**ID: 60007 | Grades 9–12 | 305**

BIOZONE Corporation

**Engineering: Lighting for a Concert Stage**

**ID: 20118 | Grades 4–5 | 221D**

**Michelle Brown**, Consultant, Expand Learning Consultants; **Anne Smith**, Consultant, Expand Learning Consultants

**AFFILIATE SESSION**
**ISEA Presents: Decomposers—Not Just for the Dark Side Anymore**

**ID: 50353 | Grades 6–8, Grades 9–12 | 221C**

**Michelle Crowell**, Science Teacher, Project WILD

## Labs, Demos, and More to Bring Some Pizzazz to Your Chemistry Classroom

ID: 20024 | Grades 9–12 | 007B

**Melissa Gable, EdD**, Chemistry Teacher, Crosby ISD

## EXHIBITOR SESSION

### Stoichiometry: Visual and Hands-On Strategies for Student Success

ID: 60019 | Grades 9–12 | 303C

**Roger Palmer**, Chemistry Product Manager, PASCO Scientific

## EXHIBITOR SESSION

### Using Maggots, Flies, and Flesh to Solve a Mystery!

ID: 60012 | Grades 6–8, Grades 9–12 | 216AB

**Wendy Peel**, Texas Instruments

## Preserve Dark Skies: The Environment's Last Frontier

ID: 20343 | Grades 9–12, Pre-K–Grade 12 | 008A

**Judy Meyer, PhD**, K12 Education/ Outreach Senior Program Coordinator, McDonald Observatory; **Keely Finkelstein**, Associate Professor of Instruction, McDonald Observatory, UT Austin

## Student-Led Science Night

ID: 20250 | Grades 4–5, Grades 6–8 | 007C

**Anthony Taxiarchou**, Science Teacher, Waller ISD

## Using Phenomena to Stimulate Student Sensemaking

ID: 20348 | Grades 4–5, Grades 6–8 | 217D

**Ted Willard**, Senior Subject Matter Expert in Science, Discovery Education

## Quick Engineering Design Activities in Physics

ID: 20363 | Grades 9–12 | 217C

**Ariana Kay**, Engineering Science and Design Teacher, Aledo ISD

## EXHIBITOR SESSION

### Transforming Science Through Multidimensional Learning

ID: 60139 | Pre-K–Grade 12 | 303B  
Accelerate Learning

## Wipro Presents: From Sesame Street to Main Street—the Art of Scientific Writing

ID: 20232 | Grades 2–3, Grades 4–5 | 217A

**Jeremy Hesse**, K–12 District Science Coordinator, Cedar Hill ISD

## EXHIBITOR SESSION

### Show Me the Moo-ney! Determine the Genetics of a CA\$H-Cow

ID: 60109 | Grades 9–12 | 301A

**Lucretia Wise**, Science Department Chair/Biology Teacher, Hays CISD

## AFFILIATE SESSION

### TSAAPT Presents: Exoplanets and Citizen Science Astronomy in the Classroom

ID: 50341 | Grades 6–8, Grades 9–12 | 225D

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas

## EXHIBITOR SESSION

### Exploring STEM Success: Real Stories of Integrating LEGO Education Solutions in Classrooms

ID: 60101 | Pre-K–Grade 12 | 304A  
LEGO Education

## SESSIONS | 11:00 a.m.–12:00 p.m.

## Abracadabra A Camp Out of Nothing

ID: 20134 | Pre-K–Grade 12 | 221D

**Bridget Streeb**, Teacher, Lufkin ISD; **Lorelei Cummings**, Teacher, Lufkin ISD

## AFFILIATE SESSION

### ACT2 Presents: Lewis Structures and VSEPR With NASSL

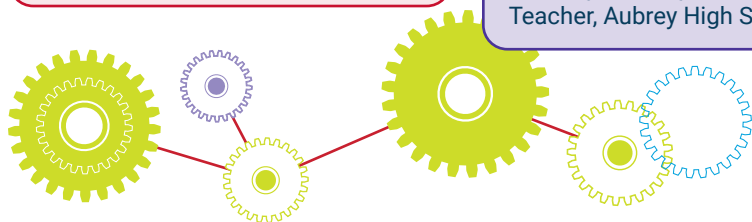
ID: 20234 | Grades 9–12 | 225A

**Timothy Mooney**, Classroom Teacher, Aubrey High School

## Addressing Local Sustainability Problems Through the Engineering Design Process

ID: 20285 | Grades 4–5, Grades 6–8 | 217D

**Gail Dickinson, PhD**, Associate Professor, Texas State University; **Jordan Dye**, Teacher, Mendez Elementary; **Elisia Stefanoff Hartin**, Graduate Student, Texas State University





## EXHIBITOR SESSION

### Analyzing a Crime Scene With DNA

ID: 60106 | Grades 9–12 | 301A

**Christina Rivera**, Forensic Science and Chemistry Teacher, Northside ISD; **Julie Anders**, Forensic Science Teacher, Northside ISD

### Engaging Activities to Increase Retention in Science 2.0

ID: 20302 | Grades 6–8, Grades 9–12 | 008A

**Molly Niedens**, Science Instructional Coach, Katy ISD; **Courtney Lewis**, Instructional Coach, Katy ISD

## EXHIBITOR SESSION

### Investigating Force, Motion, and Energy With LEGO Education

ID: 60099 | Grades 4–5, Grades 6–8 | 304A

LEGO Education

## EXHIBITOR SESSION

### BIOZONE's AP Programs: Cultivate Excellence in Your Students

ID: 60008 | Grades 9–12 | 305

BIOZONE Corporation

## AFFILIATE SESSION

### ISEA Presents: Connecting STEM and the Arts Through Inquiry and Hands-On Activities

ID: 50355 | Grades 2–3, Grades 4–5 | 221C

**John Espinoza**, School Programs Educator, Science Mill

## EXHIBITOR SESSION

### Circuits Made Easy: Untangle Your Circuit Labs!

ID: 60020 | Grades 9–12 | 303C

**Jonathan Hanna**, Product Manager HS Physics/STEM/Engineering, PASCO Scientific

### Exploring Biology Through Project-Based Learning: Engage, Discover, Achieve

ID: 20043 | Grades 9–12 | 007C

**Sara Deal**, Biology Teacher, Garland ISD

### Exploring Connections through Water With Project WET Activities!

ID: 20345 | Grades 4–5, Grades 6–8 | 006D

**Elizabeth Gutierrez**, Environmental Education Specialist, Guadalupe-Blanco River Authority

## EXHIBITOR SESSION

### Let's Engage Students Through Phenomena-Based Science Instruction

ID: 60140 | Pre-K–Grade 12 | 303B

Accelerate Learning

## EXHIBITOR SESSION

### Crash Course in Physics: Exploring Motion and Force Phenomena

ID: 60129 | Grades 9–12 | 302B

Vernier Science Education

## EXHIBITOR SESSION

### Exploring OpenSciEd High School From Carolina (9–12)

ID: 60029 | Grades 9–12 | 301B

Carolina Biological Supply Company

## EXHIBITOR SESSION

### Making the Cut With CRISPR That Changes Lives

ID: 60063 | Grades 9–12 | 301C

**Ruth Hutson**, Science Educator, 3D Molecular Designs

### Empower Students and Differentiate With Canvas Mastery Paths

ID: 20322 | Pre-K–Grade 12 | 008B

**Sabrina Dowell**, Science Teacher, Northwest ISD; **Lisa Hankins**, Science Teacher, Richardson ISD

### Going Backward to Go Forward

ID: 20201 | Grades 6–8, Grades 9–12 | 007D

**Melinda Cavel**, Science Instructional Coach, Pasadena ISD; **Cathy Roberts**, Biology Teacher Crosby ISD; **Jennifer Perez**, Middle School Teacher, Pasadena ISD

### Master Chef: Chemistry Edition

ID: 20294 | Grades 9–12 | 006C

**Shelly Hinson-Cooper**, Science Resource Specialist, Dallas ISD

## EXHIBITOR SESSION

### No Cadaver? No Problem! Providing Lab Experiences With AR/VR

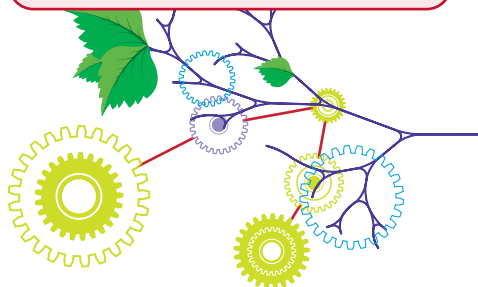
ID: 60071 | Grades 6–8, Grades 9–12 | 217B

zSpace

### Inclusive Differentiation Strategies: All Standards, All Students

ID: 20198 | Grades 4–5, Grades 6–8 | 006A

**Karen Ostlund, PhD**, Professor Emerita, UT Austin



## Our Texas, Our Future: Teach With Local Issues to Engage Your Learners

ID: 20186 | Grades 6–8,  
Grades 9–12 | 220

**Anne Marie Fayen**, Curriculum  
Developer and Instructional  
Designer, Fayen Consulting

## STAT Presents: Hurricanes— Where the Sciences Collide!

ID: 50392 | Pre-K–Grade 12 | 221AB

**Tina Hovance**, Secondary Science  
Coordinator, Katy ISD

## Transforming STEM Classrooms With Technology Integration

ID: 20204 | Pre-K–Grade 12 | 217A

**Bruce Ellis, EdD**, Director of  
Professional Development, TCEA

### EXHIBITOR SESSION

## Phenomenal Science Instruction: Observation to Understanding

ID: 60163 | Grades 6–8 | 303A

**Caroline Reeves**, Content Author,  
Summit K12; **Michael Claypool**,  
Content Author, Summit K12;  
**Melissa Gonzalez**, Content Writer,  
Summit K12

## Tackling New TEKS in Middle School

ID: 20062 | Grades 6–8 | 007B

**Rosemary Martin**, Consultant, Math  
& Science Cut Ups

### AFFILIATE SESSION

## TSAAPT Presents: Exploring Malus's Law and Mutually Exclusive States

ID: 50359 | Grades 9–12 | 225D

**Meghan DiBacco**, Teacher, Katy ISD;  
**Karen Matsler**, Master Teacher, UT  
Arlington

### AFFILIATE SESSION

## TCES Presents: Sci-Fi Life Science Literacy— Elaborating About Inherited Traits With Pokémon

ID: 50327 | Grades 4–5,  
Pre-K–Grade 12 | 225B

**Omah Williams-Duncan, PhD**,  
Associate Professor in Teacher  
Education, University of Houston-  
Clear Lake

### AFFILIATE SESSION

## TSELA Presents: Teachers Don't Care How Much You Know Until They Know How Much You Care

ID: 50308 | Pre-K–Grade 12 | 225C

**Helen Wright**, Secondary Science  
Instructional Coach, Northwest ISD;  
**Shelley Hawkins**, K–12 Science  
Specialist, Keller ISD

### EXHIBITOR SESSION

## "Rock" Stars: Exploring the Science Practices With BioInteractive Resources

ID: 60025 | Grades 6–8,  
Grades 9–12 | 216AB

HHMI BioInteractive

## TechXplore: Revolutionizing Science Education Through AI Integration

ID: 20020 | Pre-K–Grade 12 | 217C

**Samira Parhizkar**, Science and  
Technology Specialist, Alief ISD

## Using Model-Based Inquiry to Explore Whaling and Climate Change

ID: 20127 | Grades 6–8,  
Grades 9–12 | 006B

**Elizabeth Morris**, Science  
Instructional Coach, Katy ISD; **Kelly  
Schumann**, Science Instructional  
Coach, Katy ISD; **Kim Soares**, Science  
Instructional Coach, Katy ISD

## The Skull Comparison Investigation on a Budget!

ID: 20007 | Grades 6–8,  
Grades 9–12 | 007A

**Bertha Vazquez**, Science Teacher  
and Director, The Teacher Institute  
for Evolutionary Science

### AFFILIATE SESSION

## TESTA Presents: The One-Thing-at-a-Time Periodic Table Activity

ID: 50366 | Grades 6–8,  
Grades 9–12 | 224

**Jim Manley**, Retired, Coppell ISD/  
Dallas Arboretum; **Cherry Guentzel**,  
Retired Leander, ISD

### EXHIBITOR SESSION

## Sickle Cell Genetics: Using Gel Electrophoresis to Investigate Inheritance

ID: 60035 | Grades 9–12 | 302A

**Marc Bliss**, Genes in Space Program  
Lead, miniPCR & Genes in Space

### EXHIBITOR SESSION

## Walk the Walk and Talk the Talk . . . Like a Scientist

ID: 60159 | Grades 2–3,  
Grades 4–5 | 304B

**Caren Limbrick**, Implementation  
Support Specialist, Great Minds

## Wanna Blart My Woodlee?

ID: 60115 | Pre-K–Grade 12 | 302C

**Tammy Norman**, Partner Success Manager, Discovery Education; **David Martinez**, Science Instructional Specialist, Cypress-Fairbanks ISD

## EXHIBITOR SESSION

### Will SOMEBODY Show Me How to Use This Probe?!

ID: 60013 | Grades 6–8, Grades 9–12 | 304C

Texas Instruments



For complete session descriptions and speaker bios, visit the **STATCAST Mobile App!**

## SESSIONS | 12:30 p.m.–1:30 p.m.

## AFFILIATE SESSION

### ACT2 Presents: An Activity-Based Approach to Teaching Periodic Trends

ID: 50344 | Grades 9–12 | 225A

**Cindy Welch**, Teacher, Kingwood High School; **Summer Bland**, Teacher, Kingwood High School

### Change Your Traditional “Science Fair Night” to a Student-Led, Interactive, Hands-On Science Day

ID: 20199 | Grades 2–3, Grades 4–5 | 008B

**Rebecca Ramey**, 2nd Grade Teacher, Rummel Creek Elementary; **Candace Charles**, 5th Grade Science Teacher, Spring Branch ISD; **Gregory Drew**, 2nd Grade Teacher, Rummel Creek Elementary

### Don’t Steal the Wonder: How Inquiry Labs Support 3-D Instruction

ID: 20098 | Grades 6–8, Grades 9–12 | 007A

**Helen Wright**, Secondary Science Instructional Coach, Northwest ISD; **Janis Davis**, Science Teacher, Northwest ISD

### Answering the Question “Why Do I Need to Know This?” Using Case Studies

ID: 20132 | Grades 6–8, Grades 9–12 | 221D

**Corie Carson**, STEM Instructional Coach, Splendora ISD; **Sarah Couch**, Instructor, Sam Houston State University

## EXHIBITOR SESSION

### Customizing Impactful Summer and Afterschool Learning Experiences With LEGO Education

ID: 60102 | Grades 4–5, Grades 6–8 | 304A

LEGO Education

## EXHIBITOR SESSION

### ELPS Within the Five Es: Stations for Emergent Bilinguals

ID: 60152 | Pre-K–Grade 12 | 216AB

**Andrea Hopkins**, Account Representative, EduSmart; **Leah Pinto**, Director of Professional Development, EduSmart

### Artificial Intelligence Amplified: Simplifying Teaching With Multiple Magical Tools!

ID: 20185 | Grades 2–3, Grades 4–5 | 217A

**Christina Hayes**, 5th Grade Teacher, Grapevine-Colleyville ISD; **Joe Parthemore**, 4th Grade Science/Coding Teacher, Grapevine-Colleyville ISD

### Decoding CRISPR: Gene Editing Overview, Applications, and Modeling

ID: 20129 | Grades 9–12 | 006D

**Karen Davis**, AP Biology Consultant, Retired

### Going Batty With STEM: Empowering Teachers for Bat Conservation Education

ID: 20123 | Grades 6–8 | 217C

**Erin Cord**, Community Partnerships Manager, Bat Conservation International; **Anne Smith**, Consultant, Expand Learning Consultants; **Michelle Brown**, Consultant, Expand Learning Consultants

## EXHIBITOR SESSION

### Ask Me Anything: Get the Hot Takes From the Hot Seat on 3-D Curriculum!

ID: 60157 | Grades 2–3, Grades 4–5 | 304B

**Erica Huang**, Success Lead, Great Minds

## EXHIBITOR SESSION

### DNA Unplugged: Using Multiple Physical Models of DNA to Teach Structure and Function

ID: 60067 | Grades 9–12 | 301C

**Mark Arnholt**, Science Educator, 3D Molecular Designs

### A Hands-On Lab to Teach the Central Dogma of Molecular Biology

ID: 60036 | Grades 9–12 | 302A

**Allison Nishitani**, Curriculum Director, miniPCR & Genes in Space

## Help, I Don't Have Robots! How Am I Supposed to Teach Coding?

ID: 20103 | Pre-K–Grade 1,  
Grades 2–3 | 008A

**Julianna Sheeran**, STEM Teacher/  
Specialist, Terrell ISD; **Marla Laudan**,  
STEM Lab Specialist, Terrell ISD;  
**Amy Toy**, K–12 Science Curriculum  
Coordinator, Terrell ISD; **Shannan  
Singletary**, STEM Educator, Terrell ISD

## Ignite the Spark of Chemistry: Hands-On Activities for Student Engagement

ID: 20301 | Grades 9–12 | 007B

**Amanda Stewart**, Teacher,  
Jacksonville ISD

## AFFILIATE SESSION

## ISEA Presents: A WILD Cycle—Using Project WILD to Teach Natural Cycles

ID: 50323 | Grades 6–8 | 221C

**Sara Jose**, Project WILD Coordinator,  
Texas Parks & Wildlife Department;  
**Lucinda Sohn**, Professor of  
Instruction, UT San Antonio;  
**Stephanie Hurst**, Science Department  
Chair, Cleveland Middle School

## EXHIBITOR SESSION

## Keep Calm and Chemistry on: Successful Lab Activities for the New Chemistry Teacher

ID: 60083 | Grades 9–12 | 301B

Carolina Biological Supply

## EXHIBITOR SESSION

## Knowledge Building Can't Wait!

ID: 60116 | Pre-K–Grade 12 | 302C

**Justin Karkow**, Vice President of  
Teaching & Learning, Discovery  
Education

## Make Learning Stay With SciYonce

ID: 50385 | Grades 6–8,  
Grades 9–12 | 221AB

**Arlevia Davis**, Science Instructional  
Specialist/Teacher, Mansfield  
Legacy High School

## EXHIBITOR SESSION

## Redesign Learning: Harness the Power of Virtual Reality for Lab-Based Courses

ID: 60070 | Pre-K–Grade 12 | 217B

zSpace

## Rocking the Rock Cycle

ID: 20119 | Grades 6–8 | 006A

**Julie Rhea**, Science Teacher, Bland  
Middle School

## School Energy Efficiency Experts

ID: 20208 | Grades 6–8,  
Grades 9–12 | 007D

**Sue Parrent**, Program Associate,  
NEED Project

## EXHIBITOR SESSION

## Science Is a Team Sport: Cultivating Communication and Collaboration in the Classroom

ID: 60080 | Grades 4–5,  
Grades 6–8 | 304C

**Tobi McMillan**, Co-Owner, Think Big  
Learning; **Marianne Dobrovoly**,  
Co-Owner Think Big Learning

## EXHIBITOR SESSION

## Simplify Photosynthesis With Sensors!

ID: 60021 | Grades 6–8,  
Grades 9–12 | 303C

**Roger Palmer**, Chemistry Product  
Manager, PASCO Scientific

## EXHIBITOR SESSION

## Sneak Peek: Virtual Field Investigations With Dynamic Science

ID: 60165 | Pre-K–Grade 12 | 303A

**Katie Evans**, Lead Biology Content  
Author, Summit K12; **Amanda Smith**,  
Content Author, Summit K12

## EXHIBITOR SESSION

## Spark Curiosity: Sensor-Based Science for Elementary Students

ID: 60130 | Grades 2–3,  
Grades 4–5 | 302B

Vernier Science Education

## EXHIBITOR SESSION

## STEMscopes Implementation Training

ID: 60141 | Pre-K–Grade 1,  
Grades 2–3 | 303B

Accelerate Learning

## AFFILIATE SESSION

## TCES Presents: Engineering Success in STEM

ID: 50338 | Grades 2–3,  
Grades 4–5 | 225B

**Gelyn Roble**, Science Coordinator,  
Alief ISD

## AFFILIATE SESSION

## TESTA Presents: Talking and Doing Space!

ID: 50368 | Grades 4–5,  
Grades 6–8 | 224

**Devalyn Rogers**, Middle School  
Science Teacher, TESTA

## Transform Static Word Walls Into Dynamic Teaching Tools

ID: 20270 | Pre-K–Grade 12 | 220

**Julie Jackson**, Associate Professor,  
Texas State University



## AFFILIATE SESSION

**TSAAPT Presents: How to Integrate Computer Science Into a Physics/IPC Classroom Without Losing Your Mind**

ID: 50374 | Grades 6–8, Grades 9–12 | 225D

**Celestina Pangan**, Teacher, TSAAPT

## AFFILIATE SESSION

**TSELA Presents: Empowering Administrators to Be Instructional Leaders of Three-Dimensional Science Instruction to Support the New TEKS**

ID: 50309 | Grades 6–8, Grades 9–12 | 225C

**Tina Hovance**, Secondary Science Coordinator, Katy ISD; **Lindi Kudlacek**, Secondary Science Coordinator, Katy ISD

**Using Student-Engineered Carnival Rides to Investigate the Laws of Motion**

ID: 20257 | Grades 6–8 | 006B

**Valeria Pineda**, 8th Grade Science Teacher, Katy ISD; **Brittany Schwartz**, 8th Grade Science Teacher, Katy ISD; **Andrea Mann**, 8th Grade Science Teacher, Katy ISD; **Krystal Waltman**, 8th Grade Science Teacher, Katy ISD

**A Vivid Earth Science Introduction to Plate Tectonics and Landforms**

ID: 20338 | Grades 4–5, Grades 6–8 | 006C

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas

**Wipro Presents: Unleashing Scientific Curiosity—The Power of Hands-On Activities**

ID: 20122 | Grades 4–5, Grades 6–8 | 007C

**Tamesha Brown**, ESL Facilitator, UNT Dallas; **Markus Burkhalter**, Dean of Instruction, Lancaster ISD; **Taylor Burkhalter**, Classroom Teacher; **Amanda Zoller**, Classroom Teacher; **Alexandria Brown**, Classroom Teacher, **Deanna Wingerter**, Classroom Teacher

**Word Walls for Secondary Science**

ID: 20028 | Grades 6–8, Grades 9–12 | 217D

**Rebecca Machost**, Science Educator, Whitehouse ISD; **Melissa Woodfin**, Middle School Science Teacher, Whitehouse ISD

## SESSIONS | 2:00 p.m.–3:00 p.m.

## EXHIBITOR SESSION

**Building Access for English Learners With LEGO Education Solutions**

ID: 60103 | Grades 4–5, Grades 6–8 | 304A

LEGO Education

## EXHIBITOR SESSION

**Developing Models: Going on an Ecology Adventure With BioInteractive**

ID: 60027 | Grades 9–12 | 305

**Jennifer Barnes**, Ambassador, HHMI BioInteractive

**Elementary Energy Transformations Engagement!**

ID: 20205 | Grades 2–3, Grades 4–5 | 007C

**Kimberly Swan**, Program Assistant, NEED Project

## EXHIBITOR SESSION

**Claim, Evidence, Reasoning (CER): Are You CERTain Your Students Understand the Data?**

ID: 60142 | Pre-K–Grade 12 | 303B

Accelerate Learning

## EXHIBITOR SESSION

**Discover BIOZONE's Programs: Earth and Space Sciences and Environmental Science**

ID: 60009 | Grades 9–12 | 304C

BIOZONE Corporation

**Engaging Student Projects for Cells and Body Systems**

ID: 20286 | Grades 6–8, Grades 9–12 | 221D

**Jody Hodges**, Creator, ScienceWear

## EXHIBITOR SESSION

**Crash Cushion Design Challenge: A Lesson on Collisions**

ID: 60022 | Grades 6–8, Grades 9–12 | 303C

**Jonathan Hanna**, Product Manager HS Physics/STEM/Engineering, PASCO Scientific

**Diving Deeper: Moving Science Instruction From Snorkeling to SCUBA Diving**

ID: 20053 | Grades 4–5, Grades 6–8 | 006B

**Beth Lehmann**, Education Specialist, Region 15 ESC; **Torrey Clay**, Education Specialist, Region 15 ESC

## EXHIBITOR SESSION

**Exploring the Recurring Themes and Concepts With the NSTA Quick-Reference Guide to the Three Dimensions**

ID: 60117 | Grades 4–5, Grades 6–8 | 302C

**Ted Willard**, Senior Subject Matter Expert in Science, Discovery Education

## EXHIBITOR SESSION

### The Fast and the Curious: Exploring Accelerated Motion With the Vernier Cart Fan

ID: 60131 | Grades 9–12 | 302B  
Vernier Science Education

## EXHIBITOR SESSION

### Finding Magical Math Moments in Science

ID: 60158 | Grades 2–3,  
Grades 4–5 | 304B  
Krislyn Domingue, Success Coach,  
Great Minds

## EXHIBITOR SESSION

### From Code to Construction: Modeling DNA Replication Essentials

ID: 60062 | Grades 6–8,  
Grades 9–12 | 301C  
Ruth Hutson, Science Educator, 3D  
Molecular Designs

## EXHIBITOR SESSION

### The Fusion of Science and Language Through Smithsonian Science for the Classroom (K–5)

ID: 60044 | Grades 2–3 | 301B  
Carolina Biological Supply Company

### The Future of STEM: Empowering Today's Educators and Tomorrow's Leaders Through the Army Educational Outreach Program (AEOP)

ID: 20074 | Grades 6–8,  
Grades 9–12 | 007B  
Brian Kutsch, STEM Network  
Manager, eCYBERMISSION

## EXHIBITOR SESSION

### Immersive Learning: Enhancing Science Education through AR/VR Exploration

ID: 60069 | Grades 4–5,  
Grades 6–8 | 217B  
Sheena Shoemaker, Senior  
Customer Success Manager,  
zSpace, inc.; Elaine Estrada, MS  
Science Instructional Specialist,  
Northside ISD

### Interactive Notebooking Using a 3-D Lens

ID: 20256 | Pre-K–Grade 12 | 008A  
Tabatha Smith, Secondary Science  
Specialist, Lubbock ISD; Karen  
Litteral, Elementary Science  
Specialist, Lubbock ISD

### Murder, Mayhem, and All Things Forensic

ID: 20253 | Grades 9–12 | 221C  
Lori Barber, Teacher, Ford High School

### Phenomenal Phenomena: Using Discrepant Events to Trigger Inquiry

ID: 20026 | Pre-K–Grade 12 | 221AB  
Matt Wells, Science Department  
Chair, Cypress Lakes High School

### Sensemaking With Slow Reveal Graphs

ID: 20159 | Pre-K–Grade 12 | 217D  
Dodie Resendez, Education  
Specialist, Region 4 ESC

## EXHIBITOR SESSION

### Solving a Medical Mystery: Making Time for Phenomena With Dynamic Chemistry

ID: 60166 | Grades 9–12 | 303A  
Staci Kwast, High School Program  
Manager, Summit K12; Kristi Haire,  
Content Author, Summit K12; Becky  
Key, Content Author, Summit K12

## EXHIBITOR SESSION

### Sssscience in Action: Unraveling Snake Colors Using DNA Analysis

ID: 60037 | Grades 9–12 | 302A  
Michela Zaffagni, Research  
Scientist, miniPCR bio

## AFFILIATE SESSION

### TCES Presents: Literacy Is Important to Science, But Why?

ID: 50332 | Grades 2–3,  
Grades 4–5 | 225B  
Jessica Hilbert, K–12 Science  
Coordinator, Fort Worth ISD;  
Genedra Trotter, K–12 Science  
Coordinator, Fort Worth ISD

### TEA Presents: Science TEKS Guide 101

ID: 50372 | Pre-K–Grade 12 | 217A  
Carla Bailey, Elementary Math and  
Science Content Specialist, Texas  
Education Agency

For complete session  
descriptions and  
speaker bios, visit the  
STATCAST Mobile App!



## Three-Dimensional Instruction in the Secondary Science Classroom

ID: 50348 | Grades 6–8, Grades 9–12 | 220

**Paul Andersen**, Education Consultant, Bozemanscience.com

## Using Model-Based Inquiry to Explore Nuclear Chemistry Through the Story of “Little Boy”

ID: 20128 | Grades 6–8, Grades 9–12 | 217C

**Kim Soares**, Science Instructional Coach, Katy ISD; **Kelly Schumann**, Science Instructional Coach, Katy ISD; **Elizabeth Morris**, Science Instructional Coach, Katy ISD

## Wipro Presents: Energize Your Classroom— STEM Coding Adventures With Spheros

ID: 20121 | Grades 4–5, Grades 6–8 | 007D

**Jennifer Melton**, Gifted and Talented Teacher; **Patricia Lee**, Gifted and Talented Teacher; **Crystal Trejo**, 4th Grade Teacher, GPISD

### AFFILIATE SESSION

## TSAAPT Presents: Junkyard Physics and Engineering

ID: 50377 | Grades 9–12 | 225D

**Deborah Armstrong**, Physics and Engineering Teacher, Mineola High School

## Waters to the Sea: Guadalupe River—A Virtual Float Down the Guadalupe River Watershed

ID: 20351 | Grades 6–8, Grades 9–12 | 007A

**Elizabeth Gutierrez**, Environmental Education Specialist, Guadalupe-Blanco River Authority

### EXHIBITOR SESSION

## Zombie Apocalypse!

ID: 60011 | Grades 6–8, Grades 9–12 | 216AB

**Jessica Kohout**, Professional Development Curriculum and Implementation Specialist, Talent 101; **Wendy Peel**, Texas Instruments

### EXHIBITOR SESSION

## Urine Trouble!

ID: 60089 | Grades 9–12 | 301A

**Courtney Sweebe**, Biology Teacher and District Coordinator, Conroe ISD

## SESSIONS | 3:30 p.m.–4:30 p.m.

### EXHIBITOR SESSION

## Bring CRISPR/Cas to Your Class

ID: 60038 | Grades 9–12 | 302A

**Allison Nishitani**, Curriculum Director, miniPCR & Genes in Space

## Cats of Electrochemistry! Purrrrrrfect Understanding of Galvanic/Voltaic Cells

ID: 20056 | Grades 9–12 | 217C

**Chris Coker**, Science Teacher/ Department Chair, Camden Fairview High School

## Engineering Lessons in Science Class

ID: 20364 | Grades 6–8, Grades 9–12 | 007C

**Roger Ramirez**, Associate Director for Mathematics and Engineering Education, Rice University

### EXHIBITOR SESSION

## Can You Escape the Discovery Education Room?

ID: 60113 | Pre-K–Grade 12 | 302C

**Paula Taylor**, Director, Partner Success, Discovery Education; **Evan Sanchez**, Partner Success Manager, Discovery Education; **Alex Lagares**, Regional Vice President, Educational Partnerships, Discovery Education

## Eduaide.ai: How to Make Robots Do Your Job

ID: 20079 | Grades 9–12 | 007B

**Pamela Groves**, EdD, Professor, UT Rio Grande Valley

### EXHIBITOR SESSION

## Fostering Curiosity, Relevance, and Engagement With Phenomenon Processing Tools

ID: 60076 | Pre-K–Grade 12 | 305

**Tobi McMillan**, Co-Owner, Think Big Learning; **Marianne Dobrovlny**, Co-Owner, Think Big Learning

### EXHIBITOR SESSION

## Engineer TEKS Excitement in Your Classroom With a Carolina STEM Challenge

ID: 60086 | Grades 6–8, Grades 9–12 | 301B

Carolina Biological Supply Company

## EXHIBITOR SESSION

### From Atoms to Oceans: Modeling the Properties of Water

ID: 60066 | Grades 6–8, Grades 9–12 | 301C

Mark Arnholt, Science Educator, 3D Molecular Designs

## EXHIBITOR SESSION

### Littles Can Live, Laugh, and Love Science

ID: 60160 | Pre-K–Grade 1, Grades 2–3 | 304B

Sanobar Bhaidani, Success Coach, Great Minds

### Planet-Conscious Eating: Making Sustainable Choices

ID: 20152 | Grades 9–12 | 006B

Martha Kennedy, Food Science Teacher, Los Fresnos High School

## EXHIBITOR SESSION

### The Power of 3-D! Engaging Students in Science Like Never Before!

ID: 60162 | Pre-K–Grade 1, Grades 2–3, Grades 4–5 | 303A

Jenna Shinnors, Elementary Content Writer, Summit K12; Terry White, Content Team, Summit K12; Bonnie Austin, Content Team, Summit K12

### “Go Rabbits!” Using the Engineering Design Process to Create a STAAR-Based Board Game

ID: 20290 | Grades 2–3, Grades 4–5 | 008B

Catlain Melendez, 3rd Grade Teacher, Texas A&M University; Andrew Kipp, EdD, Clinical Assistant Professor Texas, A&M University

### Making Sense of Modeling: Exploring How to Use Modeling and Visual Data to Help Student Sense-Making

ID: 20220 | Grades 6–8, Grades 9–12 | 217D

Jesse Wilcox, PhD, Assistant Professor of Biology and Science Education, University of Northern Iowa

### Hello, Sunshine!

ID: 20135 | Grades 6–8, Grades 9–12 | 221C

Bridget Streeb, Teacher, Lufkin ISD; Lorelei Cummings, Teacher, Lufkin ISD

### NASA KIDS Space Teams Labs: Design and Conduct a Virtual Reality Space Mission Experience

ID: 20382 | Grades 6–8, Grades 9–12 | 216AB

Greg Chamitoff, PhD, Former NASA Astronaut, NASA Texas Space Grant Consortium

### Science Stories for Young Minds: A Panel With Children’s Authors

ID: 50395 | Grades 2–3, Grades 4–5 | 221AB

Evan Griffith, Lisa Kulka, PJ Hoover

## EXHIBITOR SESSION

### I HATE Exams!

ID: 60015 | Grades 6–8, Grades 9–12 | 217B

Texas Instruments

### Nature Deficit Disorder and Engaging Solutions

ID: 20231 | Grades 2–3, Grades 4–5 | 007D

Katherine Kingston, Campus Instructional Coach, Cimarron Elementary

## EXHIBITOR SESSION

### Simple Science, Smart Intervention for Stressed Teachers

ID: 60153 | Pre-K–Grade 12 | 304C

Leah Pinto, Director of Professional Development, EduSmart; Sadee Crain, Curriculum Specialist, EduSmart

## EXHIBITOR SESSION

### Inspiring Elementary Students to Pursue STEM Careers Early on, Sparking Joy and Curiosity

ID: 60095 | Grades 2–3, Grades 4–5 | 304A

LEGO Education

## EXHIBITOR SESSION

### Organizing a High School Biotechnology Competition

ID: 60090 | Grades 9–12 | 301A

Courtney Sweebe, Biology Teacher and District Coordinator, Conroe ISD

## EXHIBITOR SESSION

### STEMscopes Science Tips and Tricks

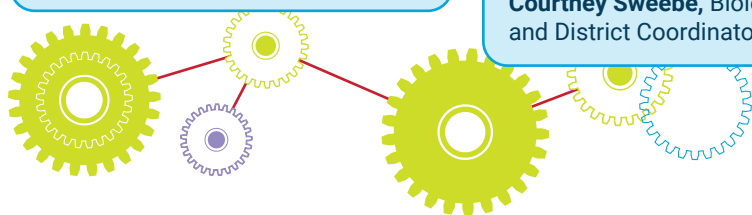
ID: 60143 | Pre-K–Grade 12 | 303B

Accelerate Learning

### Stop, Drop, and Science

ID: 20113 | Pre-K–Grade 1, Grades 2–3 | 008A

Dominga Herrera Fernandez, Parent Liaison, Pine Shadows Elementary School





## FRIDAY WORKSHOPS

### AFFILIATE SESSION

**TCES Presents: Elementary Science Educators Networking and Idea Exchange—Sharing Innovations and Insights (Day 2)**

**ID: 50322 | Grades 2–3, Grades 4–5 | 225B**

**Rocco Williams**, K–12 Science Curriculum Coordinator, Fort Worth ISD

**Teaching About Climate Science: Why Has the Past Year Been the Warmest in Recorded History?**

**ID: 20221 | Grades 6–8, Grades 9–12 | 220**

**Michael Wyssession, PhD**, Professor, Washington University in St. Louis

**The Visual Non-Glossary: The Easiest Way to Master the New TEKS and Build Academic Vocabulary!**

**ID: 20333 | Grades 6–8, Grades 9–12 | 008B**

**Stephen Fleenor, PhD**, Educational Consultant, Seidlitz Education

**TEA Presents: Science STAAR: Hot Topics**

**ID: 50388 | Pre-K–Grade 12 | 217A**

**Jo Ann Bilderback**, Math, Science, and Social Studies Director, TEA

### AFFILIATE SESSION

**TSAAPT Presents: Light and the Quantum World**

**ID: 50339 | Grades 9–12 | 225D**

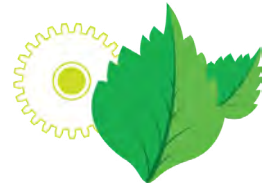
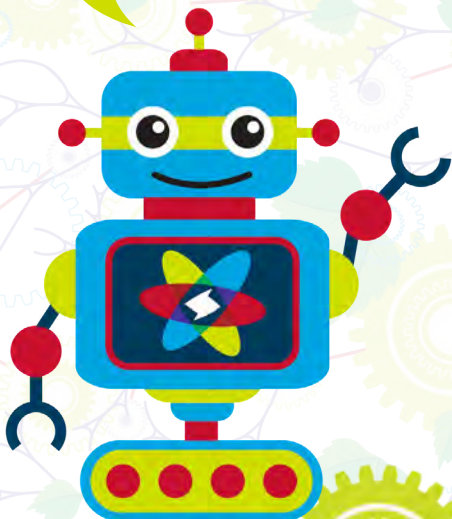
**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas; **Stephanie Taylor, PhD**, Associate Professor of Instruction, UT Dallas

**Wipro Presents: Exploring Science Concepts and Engaging Struggling High School Learners Using Problem-Based Learning**

**ID: 20172 | Grades 6–8, Grades 9–12 | 007A**

**Marsha Bolden, PhD**, Science Educator, Irving ISD

**HI, I'M  
STATBOT!**



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**GOT QUESTIONS?**  
**ASK STATBOT**

**CAST24**  
*Everything's Connected*

Presented by  **STAT** SCIENCE TEACHERS  
ASSOCIATION of TEXAS



## Workshops in Room 302A

Come  
by Booth  
614!

Win a Biotech Pack  
for your Class



### Thursday, November 14

8:00 – 9:00 AM

Exploring Mendelian inheritance with dog genetics

11:30 – 12:30 PM

From Circuits to Molecules: Biotech basics for middle school and general bio

1:00 – 2:00 PM

Princes in the Tower: Use forensic DNA analysis to solve a historical mystery

2:30 – 3:30 PM

TEKS-aligned PCR activities for the biology classroom

4:00 – 5:00 PM

Discovering Lemur Diversity: Teaching conservation genetics

### Friday, November 15

8:00 – 9:00 AM

Bring molecular genetics to your biology classroom with PTC tasting

9:30 – 10:30 AM

Genes in Space: Engage students in genetics through space biology

11:00 – 12:00 PM

Sickle Cell Genetics: Using gel electrophoresis to investigate inheritance

12:30 – 1:30 PM

BioBits: A hands-on lab to teach the central dogma of molecular biology

2:00 – 3:00 PM

Sssssscience in Action: Unraveling snake colors using DNA analysis!

3:30 – 4:30 PM

Bring CRISPR/Cas to your class

### Saturday, November 16

8:00 – 9:00 AM

Inherited Cancer Risk: Genetic testing for Lynch syndrome

9:30 – 10:30 AM

Exploring Mendelian inheritance with cat genetics

11:00 – 12:00 AM

True Blue: Bacterial transformation made easy

# Saturday at-a-Glance Schedule

Plan your day and personalize your CAST experience. For general workshop and session information, turn to pages 64–74. For complete workshop and session descriptions, please visit the [STATCAST](#) mobile app.

TIME	EVENT	LOCATION
7:30 a.m.–10:00 a.m.	Registration	Hall 2
7:30 a.m.–1:30 p.m.	Information	Hall 2
8:00 a.m.–12:00 p.m.	Exhibit Hall Open	Hall 2
8:00 a.m.–9:00 a.m.	Workshops	Meeting Rooms
9:30 a.m.–10:30 a.m.	Workshops	Meeting Rooms
9:30 a.m.–11:30 a.m.	Extended Sessions	Meeting Rooms
11:00 a.m.–12:00 p.m.	Workshops	Meeting Rooms
12:30 p.m.–1:30 p.m.	Workshops	Meeting Rooms

## FRIDAY PLANNING FORM

TIME	1ST CHOICE	2ND CHOICE	3RD CHOICE
8:00 a.m.–9:00 a.m.			
9:30 a.m.–10:30 a.m.			
9:30 a.m.–11:30 a.m.			
11:00 a.m.–12:00 p.m.			
12:30 p.m.–1:30 p.m.			

# Saturday Highlights

## FEATURED SPEAKERS

### JIM BEASLEY and MAURIE BEASLEY | AI Experts

**Empowering Education Through  
AI: Overcoming Language Barriers  
for Equity and Success**  
9:30 a.m.–10:30 a.m. | 221AB

With a degree in computer engineering, 20 years in the private sector, and 18 years as a technology director, Jim Beasley sees the potential of AI from multiple viewpoints. He believes that AI will revolutionize industries, and those who do not utilize its power will be replaced by those who do. With a master's degree in education and more than 17 years as a teacher, counselor, assistant principal, and network administrator, Maurie Beasley knows what it is like to feel the stress of not having enough time in the day to complete all the things you must do for tomorrow. She is determined to spread the word about AI to allow teachers to do more of what they love—spend time with the students and not on the paperwork.



### JULIE JACKSON | Science Education Researcher

**Trade Books and the Science  
and Engineering Practices**  
11:00 a.m.–12:00 p.m. | 221AB

Julie Jackson, PhD, associate professor at Texas State University, developed interactive word walls, which have transformed K–12 science and vocabulary instruction. Her main research interest is the seamless integration of research-based practices into the day-to-day planning and execution of highly-effective, TEKS-aligned science instruction that benefits diverse populations.



### BRIAN HUGHES | Innovator, MIT Corporation Life Member

**Hands-On Discovery: Reimagining  
Science Education in the AI Era**  
12:30 p.m.–1:30 p.m. | 221AB

Brian Hughes is a life member of the MIT Corporation, and chairs its Visiting Committee for Materials Science & Engineering, and has chaired Aeronautics & Astronautics, Nuclear Science & Engineering, and Music & Theater Arts. In 1977 he helped launch Explo.org, using MIT's Independent Activities Period as the model.



## PLUS!

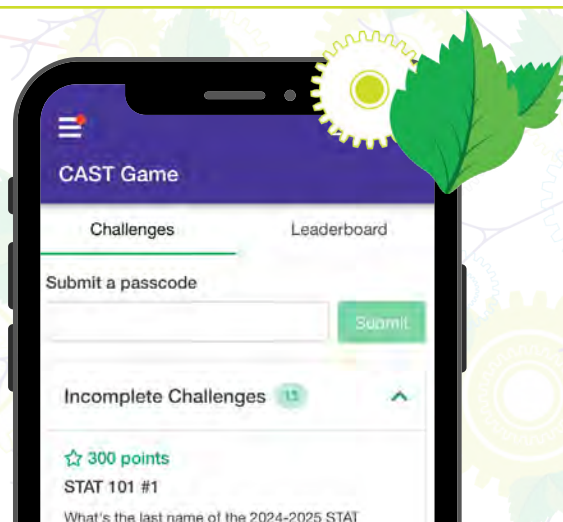
### EXPERIENCE THE SHARE-A-THON

**Hands-On Science Activities  
Presented by Preservice Teachers**  
8:00 a.m.–9:00 a.m. | 221AB

Undergraduate students in science methods classes from Texas universities present their best lesson ideas in a make-and-take workshop format. All lessons and activities are designed to be connected to TEKS and follow the 5E instructional model. Try these creative hands-on activities and meet your future colleagues! Links to lesson plans and resources will be provided.

## PLAY THE CAST24 GAME

**Complete the Challenges in the  
STATCAST Mobile App**





# Saturday Extended Sessions

Two-hour courses that provide more in-depth looks at specific topics. Extended Sessions are open to all attendees on a first-come, first-served basis. For complete descriptions of the Extended Sessions, please visit the [STATCAST](#) mobile app.

## EXTENDED SESSIONS | 9:30 a.m.–11:30 a.m.

### Help! I Am Teaching Physics, and I Am Not a Physics Major!

ID: 20042 | Grades 9–12 | 007B

**Misty Heredia**, Science Teacher,  
UTRGV

### It's Wacky Science! Let's Bake!

ID: 20150 | Grades 9–12 | 006B

**Martha Kennedy**, Food Science  
Teacher, Los Fresnos High School

### Let's Get Popping for Science!

ID: 20068 | Grades 9–12 | 007C

**Michaelle Coker, EdD**, High School  
Science Teacher, Central Heights  
ISD; **Jordan Bartels**, Associate  
Director, Texas Farm Bureau,  
Agriculture in the Classroom;  
**Carson Read**, Educational Outreach  
Coordinator, Texas Farm Bureau,  
Agriculture in the Classroom

### Maximizing Student Engagement and Learning in Science Through Choice Boards: A 5E Model Approach to Blended Learning

ID: 20323 | Grades 6–8 | 007A

**Yolanda Cribb**, 6th Grade Science  
Teacher, Aransas Pass ISD

#### AFFILIATE SESSION

### TESTA Presents: TESTA Share-a-Thon

ID: 50361 | Grades 4–5,  
Grades 6–8 | 224

**Jim Manley**, Retired, Coppel  
ISD/Dallas Arboretum; **Devalyn  
Rogers**, Middle School Science  
Teacher, TESTA; **Linda McCall**,  
Bureau Information Geologist and  
Resource Center Manager, Bureau of  
Economic Geology; **Susan Hovorka**,  
Senior Research Professor, Bureau  
of Economic Geology; **Natasha  
Garza**, 8th Grade Science Teacher,  
Franklin ISD; **Cherry Guentzel**,  
Retired, Leander ISD; **Mary Urquhart**,  
**PhD**, Associate Professor and  
Department Head, UT Dallas

#### AFFILIATE SESSION

### TSELA Presents: Unlocking 3-D Science Instruction—Crafting Action Plans for District Leaders Using Learning Targets

ID: 50301 | Pre-K–Grade 12 | 225C

**Courtney Toht**, Secondary Science  
Coordinator, Northwest ISD; **Kelly  
Suarez**, Elementary Science  
Curriculum Coordinator, Northwest  
ISD; **Helen Wright**, Secondary  
Science Instructional Coach,  
Northwest ISD

For complete session  
descriptions and  
speaker bios, visit the  
**STATCAST Mobile App!**



Explore the San Antonio Science Community With the

## CAST24 FIELD GUIDE TO SCIENCE TEKS IN THE CITY



**Download the Guide**

# Discover Real-World Science with Vernier

See how Vernier technology can bring three-dimensional science learning to life! Visit **booth 401** to explore our hands-on STEM solutions, or join our team in room **302B** for interactive sessions that offer practical investigation ideas and tips for using Vernier technology in your classroom or lab.



## Vernier Workshop Schedule



### THURSDAY, 11/14

#### Room 302B

8:00–9:00 a.m.	The Fluorescence Files: Decode Concealed Clues with Spectroscopy
11:30–12:30 a.m.	Found a Box of Vernier Sensors in Your Classroom? Start Here!
1:00–2:00 p.m.	Bon Appétit: Explorations in Food Chemistry
2:30–3:30 p.m.	Urgent Lessons: Measuring the Effects of Climate Change
4:00–5:00 p.m.	Enzymatic Explorations: Why Does Ice Cream Make Me Gassy?

### FRIDAY, 11/15

#### Room 302B

8:00–9:00 a.m.	Hands-On Physics Learning with Vernier Photogates
9:30–10:30 a.m.	Introduction to Vernier: The Basics for Beginners
11:00–12:00 p.m.	Crash Course in Physics: Exploring Motion and Force Phenomena
12:30–1:30 p.m.	Spark Curiosity: Sensor-Based Science for Elementary Students
2:00–3:15 p.m.	The Fast & the Curious: Exploring Accelerated Motion with the Vernier Cart Fan

#### YOU'RE INVITED!

### Learn about the Vernier Trendsetters Community

Saturday, 11/16 • 7:00 a.m.

Marriott San Antonio Rivercenter on the River Walk

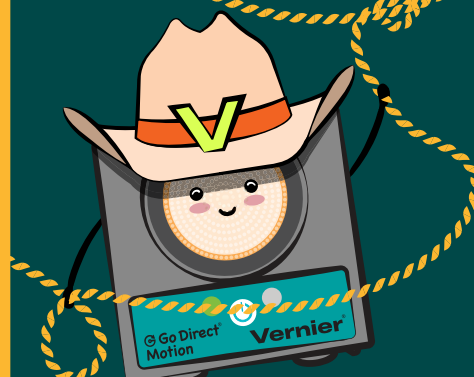
We're recruiting educators for the Vernier Trendsetters Community! If you're a high school teacher who is passionate about using data-collection technology in your classroom, please join us! Hear about how the Vernier Trendsetters Community can support educators in growing their leadership, sharing STEM teaching strategies, and collaborating with like-minded peers.

**"I love being a Trendsetter because of the training, the support, and the community. From day one, I knew this was for me."**

—Dr. Cecelia Gillam, AP Environmental Science Teacher



**Vernier**  
SCIENCE EDUCATION  
**CAST'24**



Get all the event details at  
[vernier.com/cast-2024](https://vernier.com/cast-2024)

# Saturday Workshops

One-hour presentations by individuals or groups in a classroom setting. Open to all conference attendees on a first-come, first-served basis. For complete descriptions of the Workshops, please visit the [STATCAST](#) mobile app.

## SESSIONS | 8:00 a.m.–9:00 a.m.

### AFFILIATE SESSION

#### ACT2 Presents: Get Moving With VSEPR! Using Kinesthetics to Teach Molecular Geometry

ID: 50304 | Grades 9–12 | 225A

**Kimberly Curtis**, AP Chemistry Teacher, Health Careers High School

#### Discovering the Wonders of Waves

ID: 20014 | Grades 6–8 | 221D

**Amy Rush**, Science Instructional Coach, Lufkin Middle School; **Becky Walker**, Science Teacher, Hudson ISD

#### Hands-On Science Activities Presented by Preservice Teachers

ID: 50315 | Grades 2–3, Pre-K–Grade 12 | 221AB

**Michael Kamen, PhD**, Professor and Chair, Southwestern University; **Tonya Jeffery, EdD**, Assistant Professor, Stephen F. Austin State University; **Annika Flora**, Student/Preservice Teacher, Southwestern University; **Sydney Aschmann**

#### "Barbie and the Beast" Genetics Lab

ID: 20193 | Grades 6–8, Grades 9–12 | 209

**Rhonda Perez**, Biology Teacher, Channelview ISD

### EXHIBITOR SESSION

#### EBs and the 5 Es: Strategies to Support Emergent Bilingual Students in Science

ID: 60145 | Grades 6–8, Grades 9–12 | 303B

Accelerate Learning

### EXHIBITOR SESSION

#### Inherited Cancer Risk: Genetic Testing for Lynch Syndrome

ID: 60043 | Grades 9–12 | 302A

**Rose Chaffee-Cohen**, Curriculum Specialist, miniPCR & Genes in Space

#### Building Science Leadership: Crafting Teams for 3-D Learning Success

ID: 20147 | Pre-K–Grade 12 | 217C

**Alana Jackson**, Curriculum Coordinator, Clear Creek ISD; **Blythe Brown**, Educational Consultant & Advanced Academics Specialist, Taylor Education & Clear Creek ISD; **Jamie McGivern**, Science Instructional Coach, Clear Creek ISD

#### Exploring Newton's Laws of Motion Through Three-Dimensional Learning

ID: 20321 | Grades 6–8 | 007A

**Nikki Jones**, 8th Grade Science Teacher, Tomball ISD; **Alyson Cunningham**

### AFFILIATE SESSION

#### ISEA Presents: Nature Is an Essential Part of a Healthy Childhood

ID: 50333 | Pre-K–Grade 12 | 221C

**Sarah Coles**, Texas Children in Nature Network

### EXHIBITOR SESSION

#### DElightful Donuts With DE

ID: 60118 | Pre-K–Grade 12 | 302C

**Paula Taylor**, Director, Partner Success, Discovery Education; **Alex Lagares**, Regional Vice President, Educational Partnerships, Discovery Education

### EXHIBITOR SESSION

#### It All Begins With Water

ID: 60178 | Grades 6–8, Grades 9–12 | 301C

**Ruth Hutson**, Science Educator, 3D Molecular Designs

#### Fighting Environmental Anxiety With Action and Storytelling

ID: 20370 | Grades 6–8, Grades 9–12 | 008A

**Kelly Albus, PhD**, Research Scientist, TAMU AgriLife Research

#### Fish for Dinner: Using Phenomenon and SEPS to Investigate our Dwindling Fish Stocks

ID: 20008 | Grades 9–12 | 007C

**Jennifer Greenland**, Teacher, Katy ISD

## EXHIBITOR SESSION

### Launching STEM Learning to New Heights With LEGO Education

ID: 60104 | Grades 4–5, Grades 6–8 | 304A

LEGO Education

## EXHIBITOR SESSION

### Seeing Science: Enhancing Vocabulary and Concept Mastery With Visuals

ID: 60154 | Grades 2–3, Grades 4–5 | 304C

**Andrea Hopkins**, Account Representative, EduSmart; **Sadee Crain**, Curriculum Specialist EduSmart

## AFFILIATE SESSION

### TESTA Presents: A Vivid Earth Science Introduction to Plate Tectonics and Landforms

ID: 50342 | Grades 4–5, Grades 6–8 | 224

**Mary Urquhart, PhD**, Associate Professor and Department Head, UT Dallas

### Mysteries in Nature: Using the QFT to Facilitate Inquiry

ID: 20225 | Grades 4–5, Grades 6–8 | 007D

**Kimberly Ogden**, Education Coordinator, CBBEP Education at the Nueces Delta Preserve

### Super Outrageous STEM Days

ID: 20194 | Grades 2–3, Grades 4–5 | 008B

**Amanda Lengnick-Hall**, Assistant Principal, Rodriguez Elementary School

## EXHIBITOR SESSION

### Timelapse Trajectories: Effortless Strategies for Integrating Phenomena With Dynamic Physics

ID: 60173 | Grades 9–12 | 303A

**Staci Kwast**, High School Program Manager, Summit K12; **Kristi Haire**, Content Author, Summit K12; **Becky Key**, Content Author, Summit K12

### Research, Research, Research!

ID: 20029 | Grades 9–12 | 216AB

**Jason Econome**, Biology Research Teacher, Stuyvesant High School

## AFFILIATE SESSION

### TCES Presents: Introduction to Three-Dimensional Learning

ID: 50313 | Pre-K–Grade 12 | 225B

**Morgan Castillo**, TCES Regional VP, Baylor University

### Roots and Shoots: Nurturing the Growth of Early Career Science Teachers

ID: 20310 | Pre-K–Grade 12 | 006D

**Melissa Dubke**, Alternative Certification Program Director, ResponsiveEd; **Subuk Usmani**, K–12 Science Instructional Specialist, ResponsiveEd

## AFFILIATE SESSION

### TSAAPT Presents: Light's Double Life—Exploring Wave Particle Duality

ID: 50358 | Grades 9–12 | 225D

**Meghan DiBacco**, Teacher, Katy ISD; **Karen Matsler**, Master Teacher, UT Arlington; **Ryan Piwetz**, Teacher, Port Aransas High School

### The Science of Distraction: Why Aren't Students Paying Attention and What Can We Do About It?

ID: 20025 | Grades 6–8, Grades 9–12 | 305

**Matt Wells**, Science Department Chair, Cypress Lakes High School

### Teaching With Impactful Phenomena

ID: 20162 | Grades 4–5, Grades 6–8 | 217D

**Elisabeth Johnson**, CEO, Mosa Mack Science, Inc

## AFFILIATE SESSION

### TSELA Presents: Cracking the Code—Debunking the Misconceptions Surrounding the TEKS, SEPs, and RTCs

ID: 50311 | Pre-K–Grade 12 | 225C

**Caitlin Couch**, Science Coordinator Ector, County ISD

### Tell-Tale Heart: Coding in Life Science

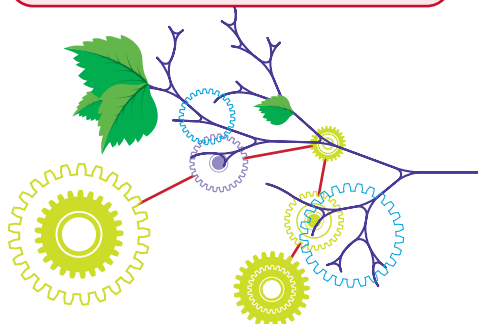
ID: 20136 | Grades 6–8, Grades 9–12 | 006A

**Bridget Streeb**, Teacher, Lufkin ISD; **Lorelei Cummings**, Teacher, Lufkin ISD

### Visualize, Engage, Create: Transforming Teaching and Learning With Canva

ID: 20158 | Grades 4–5, Grades 6–8 | 217A

**Christina Hayes**, 5th Grade Teacher, Grapevine-Colleyville ISD





## Why Is pH So Important in Our Food?

ID: 20151 | Grades 9–12 | 006B

**Martha Kennedy**, Food Science Teacher, Los Fresnos High School

## Wipro Presents: Growing Minds—Cultivating Science Literacy Through Hands-On Garden Experiences

ID: 20184 | Pre-K–Grade 12 | 007B

**Raisha Allen**, Science Instructional Facilitator, DeSoto ISD; **Ebonie Davis**, K–2 Math/Science Instructional Coach, DeSoto ISD; **Savannah Burkhalter**, Kindergarten Teacher, DeSoto ISD; **Steven Harman**

For complete session descriptions and speaker bios, visit the **STATCAST Mobile App!**



## SESSIONS | 9:30 a.m.–10:30 a.m.

### AFFILIATE SESSION

## ACT2 Presents: Miyagi-Do Stoichiometry

ID: 50357 | Grades 9–12 | 225A

**Eric Oblinger, PhD**, Chemistry Teacher, Concordia Lutheran High School

### EXHIBITOR SESSION

## Can You Escape the Discovery Education Room?

ID: 60113 | Pre-K–Grade 12 | 302C

**Paula Taylor**, Director, Partner Success, Discovery Education; **Evan Sanchez**, Partner Success Manager, Discovery Education; **Alex Lagares**, Regional Vice President, Educational Partnerships, Discovery Education

## Design Studio: Transform PBL With Design Thinking and Sustainability

ID: 20247 | Pre-K–Grade 12 | 007D

**Elizabeth Harper**, Senior Program Manager, EcoRise; **Jennifer Humphrey**, 7th–8th Grade Environmental Science Teacher, Northeast ISD

## Books to Builds: STEM Activities to Compliment Your Favorite Read Alouds

ID: 20117 | Pre-K–Grade 1, Grades 2–3 | 217A

**Terra Tarango**, Director, Van Andel Institute for Education

### EXHIBITOR SESSION

## Constructing Science and Engineering Knowledge With LEGO Education

ID: 60096 | Pre-K–Grade 12 | 304A

LEGO Education

## Empowering Education Through AI: Overcoming Language Barriers for Equity and Success

ID: 50362 | Pre-K–Grade 12 | 221AB

**Maurie Beasley**, System Administrator, Llano ISD; **Jim Beasley**, Director of Technology, Llano ISD

## Bugs, Bees, Butterflies, and Blossoms Festival: A Multi-Decade Collaboration

ID: 20284 | Pre-K–Grade 1, Grades 2–3 | 006A

**Kay Jenkins**, Environmental Education Programs Coordinator, Stephen F. Austin State University; **Ted Stevens**, Education Director/PLT State Coordinator, Texas Forestry Association

## Deepen Student Critical Thinking: Real-World Research With Museum Scientists and Collections

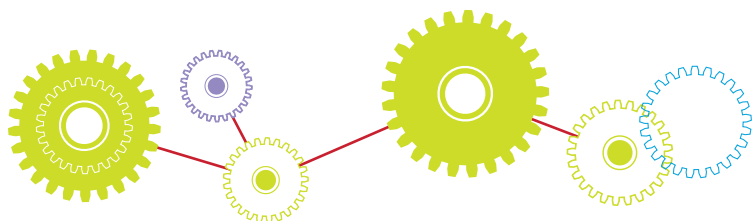
ID: 20309 | Grades 6–8 | 217D

**Madlyn Larson**, Associate Director of Education, Initiatives Natural History Museum of Utah

## Empowering Educators: Harnessing AI to Elevate Teaching

ID: 20362 | Grades 6–8 | 008B

**Lauren Stiles**, Academic Technology IST, Northside ISD



## Engineering the Science Classroom: Strategies for Seamless Integration

ID: 20045 | Grades 4–5, Grades 6–8 | 209

**Samantha Bradbury**, K–12 Science Consultant, Region 10 ESC; **Jennifer Culver**, Science Consultant, Region 10 ESC

AFFILIATE SESSION

## ISEA Presents: Engaging All Types of Learners in Birding

ID: 50345 | Pre-K–Grade 1, Grades 2–3 | 221C

**Jennifer Fetter-Matthys**, Director, Ecologist School Houston

## Three-Dimensional Assessment and the New Science TEKS in Grades 3–8

ID: 20242 | Grades 4–5, Grades 6–8 | 220

**Victor Sampson, PhD**, Associate Professor of STEM Education, UT Austin

EXHIBITOR SESSION

## Exploring Mendelian Inheritance With Cat Genetics

ID: 60039 | Grades 6–8, Grades 9–12 | 302A

**Rose Chaffee-Cohen**, Curriculum Specialist, miniPCR & Genes in Space

AFFILIATE SESSION

## TSAAPT Presents: Quantum Phenomena Radiation in the High School Classroom

ID: 50376 | Grades 9–12 | 225D

**Ryan Cote**, Teacher, College Station ISD; **Meghan DiBacco**, Teacher, Katy ISD

EXHIBITOR SESSION

## Exploring the Science Behind the 2024 Nobel Prize in Chemistry: Putting Proteins in Focus?

ID: 60176 | Grades 9–12 | 301C

**Mark Arnholdt**, Science Educator, 3D Molecular Designs

EXHIBITOR SESSION

## You Are What You Eat! Taking Macromolecules to Micro!

ID: 60094 | Grades 9–12 | 301A

**Leilani Heist**, AP/DC Biology and Aquatic Science Teacher, Northside ISD

EXHIBITOR SESSION

## Finding Magical Math Moments in Science

ID: 60158 | Grades 2–3, Grades 4–5 | 304B

**Krislyn Domingue**, Success Coach, Great Minds

EXHIBITOR SESSION

## STEMscopes Science Tips and Tricks

ID: 60146 | Pre-K–Grade 12 | 303B  
Accelerate Learning

AFFILIATE SESSION

## TCES Presents: Translanguaging in Science Classrooms

ID: 50318 | Grades 2–3, Grades 4–5 | 225B

**Erik Guarneros**, K–12 Bilingual Science Instructional Coach, Fort Worth ISD

EXHIBITOR SESSION

## Got Wildebeest? Investigating Serengeti Phenomena Through Science Practices With BioInteractive

ID: 60024 | Grades 9–12 | 217B

**Tim Guilfoyle**, Ambassador, hhmi BioInteractive

For complete session descriptions and speaker bios, visit the **STATCAST Mobile App!**



**SESSIONS | 11:00 a.m.–12:00 p.m.**

**2024-2025 STAT Book Study**

ID: 50393 | **Pre-K–Grade 12** | 216AB

**Ferleshare Starks**, EdD, STAT; Nicole Lyssy, STAT

**Games Galore: Joyful and Enriching Games for Science Classrooms**

ID: 20339 | **Grades 4–5, Grades 6–8** | 221D

**Emma Arett**, 7th Grade Science Teacher, Solar Preparatory School for Girls

**Locally Relevant Science: Let's Create a Generation of Citizen Scientists!**

ID: 20102 | **Pre-K–Grade 12** | 008B

**Laura Hurt**, Science Teacher, Odyssey Academy

**Been There, Done That, Got the T-Shirt, and Survived!**

ID: 20170 | **Grades 6–8** | 209

**Amanda Canada**, Science Teacher, Crosby ISD; **Lainee Black**, 6th Grade Science Teacher, Crosby Middle School

EXHIBITOR SESSION

**Immersive Learning: Enhancing Science Education Through AR/VR Exploration**

ID: 60069 | **Grades 4–5, Grades 6–8** | 217B

zSpace

EXHIBITOR SESSION

**Making the Cut With CRISPR That Changes Lives**

ID: 60177 | **Grades 9–12** | 301C

**Ruth Hutson**, Science Educator, 3D Molecular Designs

EXHIBITOR SESSION

**Channeling the Power of Purposeful Play With LEGO Education for Your Early Learners**

ID: 60098 | **Pre-K–Grade 1** | 304A

LEGO Education

AFFILIATE SESSION

**ISEA Presents: You Belong Here—Creating Career Paths in Water**

ID: 50346 | **Grades 9–12** | 221C

**Greg Wukasch**, External Affairs Manager, San Antonio Water System

**Saving Eggbert**

ID: 20227 | **Grades 6–8** | 006A

**Deena Logan**, Retired Instructional Coach and Science Specialist, Aldine ISD; **Jodel Sommer**, Instructional Specialist, Cypress-Fairbanks ISD

EXHIBITOR SESSION

**Elementary School Teachers Sparking Curiosity: A Hands-On, Immersive, and Musical Experience**

ID: 60114 | **Grades 2–3, Grades 4–5** | 302C

**Evan Sanchez**, Partner Success Manager, Discovery Education

AFFILIATE SESSION

**TABT Presents: From Breeding Fish to Restoring Habitats—Let's Dive Into Aquatic Science!**

ID: 50328 | **Grades 6–8, Grades 9–12** | 225A

**Adam Cohen**, Mansfield ISD

EXHIBITOR SESSION

**Let's Engage Students Through Phenomena-Based Science Instruction**

ID: 60147 | **Pre-K–Grade 12** | 303B

Accelerate Learning

AFFILIATE SESSION

**TCES Presents: Behaviors Beckon—Science-Based Strategies for Positive Classroom Management**

ID: 50334 | **Pre-K–Grade 1, Grades 2–3** | 225B

**Sandy Dougherty**, Elementary Teacher/Curriculum Writer, Northwest ISD; **Karissa Smith**, Elementary Teacher/Curriculum Writer, Northwest ISD

**Flexible Engineering Design Process (EDP) Framework: Adapting EDP for Diverse K–12 Science Classrooms**

ID: 20111 | **Pre-K–Grade 12** | 217A

**Kristi Shryock**, Associate Professor, Texas A&M University

EXHIBITOR SESSION

**Littles Can Live, Laugh, and Love Science**

ID: 60160 | **Pre-K–Grade 1, Grades 2–3** | 304B

**Sanobar Bhaidani**, Success Coach, Great Minds

## Three-Dimensional Instruction and Its Connection to the New Science TEKS in Grades 3–5

ID: 20240 | Grades 2–3, Grades 4–5 | 220

**Victor Sampson, PhD**, Associate Professor of STEM Education, UT Austin

## AFFILIATE SESSION

## TSAAPT Presents: Quantum Physics at Home

ID: 50378 | Grades 9–12 | 225D

**Victor Cervantes**, Teacher, Forney ISD; **Jaime Govea**, Teacher; **Christopher Henderson**, Teacher, Round Rock ISD

## What Do You Mean There's No Scientific Method? Learning to DO Science With the Vitruvian Man

ID: 20318 | Pre-K–Grade 12 | 008A

**Alexis Denn**, Teacher, Southwest High School

## Trade Books and the Science and Engineering Practices

ID: 50387 | Pre-K–Grade 12 | 221AB

**Julie Jackson**, Associate Professor, Texas State University

## Understanding the Past, Present, and Future: Using the Fossil Record to Track Changes in Earth's Climate

ID: 20245 | Grades 9–12 | 007D

**Hilary Clement Olson, PhD**, Associate Professor of Instruction, UT Austin; **Sabrina Ewald**, Program Manager for Outreach, UT Austin Center for Subsurface Energy and the Environment

## Wipro Presents: Gamifying Energy and Forces

ID: 20218 | Grades 2–3, Grades 4–5 | 008B

**Guillermo Lozano**, 3rd Grade DL Teacher, Grand Prairie ISD; **Ian Talamantes**, 4th Grade, Dual Language Teacher, Grand Prairie ISD; **Tamara Majors**, Elementary Math/Science Facilitator, Grand Prairie ISD; **Julio Balbuena**, 4th Grade Dual Language Teacher, Grand Prairie ISD; **Rosalyn Miles**, 4th Grade Math/Science Teacher, Grand Prairie ISD; **Marisol Guerrero**, 5th Grade Dual Language Science Teacher, Grand Prairie ISD

## EXHIBITOR SESSION

## True Blue: Bacterial Transformation Made Easy

ID: 60040 | Grades 9–12 | 302A

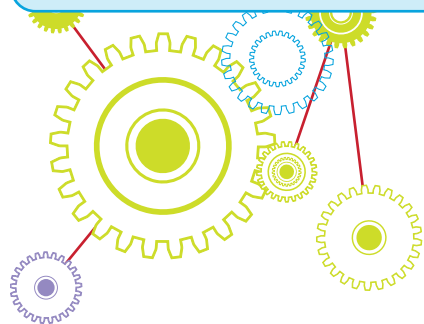
**Kristin Hennessy-McDonald**, Curriculum Specialist, miniPCR bio

## EXHIBITOR SESSION

## We Are All in This Together: Building, Sharing, and Collaborating Our Way to Student Success in Science

ID: 60172 | Pre-K–Grade 12 | 303A

**Jesse Garcia**, Director of School Partnerships, Summit K12; **Tony Zahn**, Director of School Partnerships, Summit K12



## SESSIONS | 12:30 p.m.–1:30 p.m.

## 10-Minute Science

ID: 20071 | Grades 2–3, Grades 4–5 | 006A

**Shirley Willingham**, Curriculum Specialist

## EXHIBITOR SESSION

## Building Access for English Learners With LEGO Education Solutions

ID: 60103 | Grades 4–5, Grades 6–8 | 304A  
LEGO Education

## Community Connections Through Constructivism

ID: 20200 | Grades 4–5, Grades 6–8 | 217B

**Amy Kamata**, 5th Grade Math/Science Teacher, Northeast ISD; **Charles Navarro**, Director, School & Community Programs, The DoSeum

## Beginning an Elementary STEM Program

ID: 20089 | Pre-K–Grade 1, Grades 4–5 | 008A

**Elizabeth Bingham**, Pre-K–Grade 5 STEM Teacher, Argyle ISD



## Crafting Science Connections: Empowering Students and Communities Through Station Collaboration

ID: 20341 | Grades 2–3, Grades 4–5 | 008B

**Taniece Thompson-Smith**, 5th Grade Science/Social Studies Teacher, Abilene ISD

## Five Fin-Tastic Lessons: Using Place-Based Education to Learn About the Ocean

ID: 20258 | Grades 4–5, Grades 6–8 | 006B

**Katie Doyle**, Oceans Teacher, Flour Bluff ISD

## Reacting in 3-D: Exploring Chemical Reactions Through 3-D Learning

ID: 20223 | Grades 9–12 | 007C

**Christina Hotchkin**, Teacher, Pflugerville ISD; **Jessica Matthews**, Science Teacher, Pflugerville ISD; **Sara Hill**, Science and Health Coordinator, Pflugerville ISD

## “Do You Want to Build a Program?” Bringing Coding Into the New Middle School TEKS

ID: 20337 | Grades 6–8 | 007B

**Amanda Brann**, Middle School Science Teacher, Accelerating Success

## Hands-On Discovery: Reimagining Science Education in the AI Era

ID: 50390 | Pre-K–Grade 12 | 221AB

**Brian Hughes**, Trustee Emeritus, MIT

## Roller Coaster Energy: The Transformative Journey

ID: 20358 | Grades 4–5, Grades 6–8 | 217D

**Heather Domjan, EdD**, Clinical Associate Professor, University of Houston; **Emma Johnson**, Educational Outreach, Science and Engineering Fair of Houston

## Double the Fun in AP Science: FUN and FUNctional Strategies for Enhancing Your Advanced Placement Science Course

ID: 20054 | Grades 9–12 | 006D

**Ashley Martell**, Lead HS Science Teacher, Pine Tree High School

## Hot Stuff! Thermochemistry Made Fun and Easy

ID: 20057 | Grades 9–12 | 216AB

**Chris Coker**, Science Teacher/Department Chair, Camden Fairview High School

## Staying Mentally Fit With the TEKS

ID: 20371 | Grades 6–8 | 007D

**Angelica Jimenez**, Teacher, NISD

## Elaborating and Interpreting Graphs for Astronomy With the Aid of H5Ps

ID: 20081 | Grades 6–8, Grades 9–12 | 217C

**Rino Vincenti**, Astronomy Teacher, Dallas ISD; **Adabella Benitez**, Environmental Systems Teacher, Dallas ISD

## ISEA Presents: Ecosystem Models With Project WILD

AFFILIATE SESSION

ID: 50324 | Grades 9–12 | 221C

**Sara Jose**, Project WILD Coordinator, Texas Parks & Wildlife Department

## TABT Presents: Biology Presentation Speed Dating

AFFILIATE SESSION

ID: 50350 | Grades 6–8, Grades 9–12 | 225A

**Chris Carrell**, Teacher, Llano High School

## Enhance Science Education and Learning Experiences With AI

ID: 20179 | Grades 4–5, Grades 6–8 | 305

**Kelli Allen**, Associate Professor of Practice, UT Austin

## Leveraging AI to Support Emergent Bilingual Students in Science

ID: 20059 | Grades 6–8, Grades 9–12 | 217A

**Lindsey Curiel**, Education Specialist, Region 4 ESC

## TCES Presents: Preservice Teacher Roundtable—Chats About Soft Skills and Unmentioned Career Tips for Success

AFFILIATE SESSION

ID: 50326 | Grades 4–5, Grades 6–8 | 225B

**Omah Williams-Duncan, PhD**, Associate Professor in Teacher Education, University of Houston-Clear Lake

## Protein Soup: Modeling Protein Synthesis

ID: 20276 | Grades 9–12 | 209

**Stacey Reyes**, HS Science Specialist, Northside ISD; **Lauren Malik**, HS Science Academic Tech IST, Northside ISD

## SATURDAY WORKSHOPS

### TEA Presents: Incorporating the Recurring Themes and Concepts (High School)

ID: 50383 | Grades 9–12 | 220

**Liz Baker**, Secondary Science Specialist, Texas Education Agency

### Ten-Minute Models for Anatomy and Physiology

ID: 20072 | Grades 9–12 | 221D

**Sophia Garcia**, Instructor, Texas Christian University

#### AFFILIATE SESSION

### TESTA Presents: Improving Tier 1 Instruction at the Middle School Level

ID: 50369 | Grades 4–5, Grades 6–8 | 224

**Natasha Garza**, 8th Grade Science Teacher, Franklin ISD

#### AFFILIATE SESSION

### TSAAPT Presents: What IS Light?

ID: 50375 | Grades 4–5, Grades 6–8 | 225D

**Meghan DiBacco**, Teacher, Katy ISD; **Cathy Barthelemy**, Educator, Fort Worth Museum of Science and History; **Karen Matsler**, Master Teacher, UT Arlington

#### EXHIBITOR SESSION

### We Are All in This Together: Building, Sharing, and Collaborating Our Way to Student Success in Science

ID: 60161 | Pre-K–Grade 12 | 303A

**Jesse Garcia**, Director of School Partnerships, Summit K12; **Tony Zahn**, Director of School Partnerships, Summit K12

#### EXHIBITOR SESSION

### What Will Be the Spark That Ignites a Student's Career Passion?

ID: 60120 | Pre-K–Grade 12 | 302C

**Paula Taylor**, Director, Partner Success, Discovery Education

#### EXHIBITOR SESSION

### What Will Be the Spark That Ignites a Student's Career Passion?

ID: 60120 | Pre-K–Grade 12 | 302C

**Paula Taylor**, Director, Partner Success, Discovery Education

### Wipro Presents: Exploring STEM Wonders—Elementary Students Unleash Innovation

ID: 20187 | Grades 2–3, Grades 4–5 | 006C

**Sherry Thompson**, Academic Specialist, Irving ISD; **Erika Rocha**, Librarian, Irving ISD; **Michelle Hanson**, 1st Grade Teacher, Irving ISD; **Chris Dazer**, Science Coordinator, Irving ISD

For complete session descriptions and speaker bios, visit the **STATCAST Mobile App!**

## THANK YOU TO THE CAST24 SCHOLARSHIP SUPPORTERS

STAT is dedicated to fostering innovation and excellence in science education, and believes in empowering all educators with the tools to guide the next class of discoverers. To advance this commitment, and thanks to the support of valued partners in science education, STAT was able to award **57 scholarships** to educators to attend CAST24.

Thank you to Aramco and Dr. Kenn Heydrick for supporting Texas science educators.

CAST24 Scholarships Presented by



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**SAVVAS**

THREE-DIMENSIONAL, PHENOMENA-DRIVEN

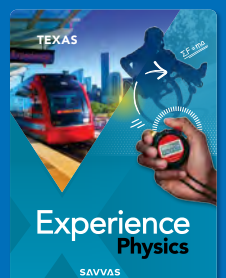
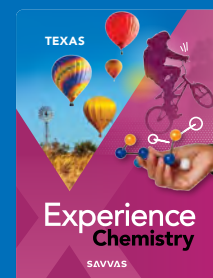
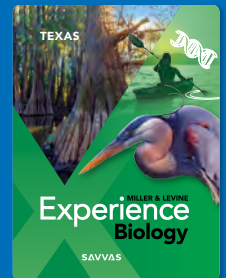
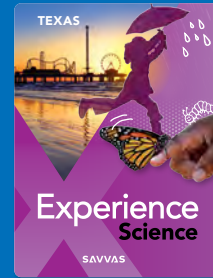
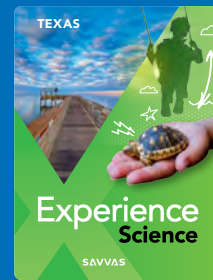
# Experience Science

# Thank You!

We look forward to partnering  
with your district as you  
implement this phenomenal  
Texas K-12 science series.  
Have questions? Visit us in  
the exhibit hall.

**Booth #808**

[Savvas.com/Texas](https://Savvas.com/Texas)





# Venue Map

## HENRY B. GONZÁLEZ CONVENTION CENTER

### BALLROOM

Stars at Night Ballroom  
HemisFair Ballroom  
Meeting Rooms 301-305



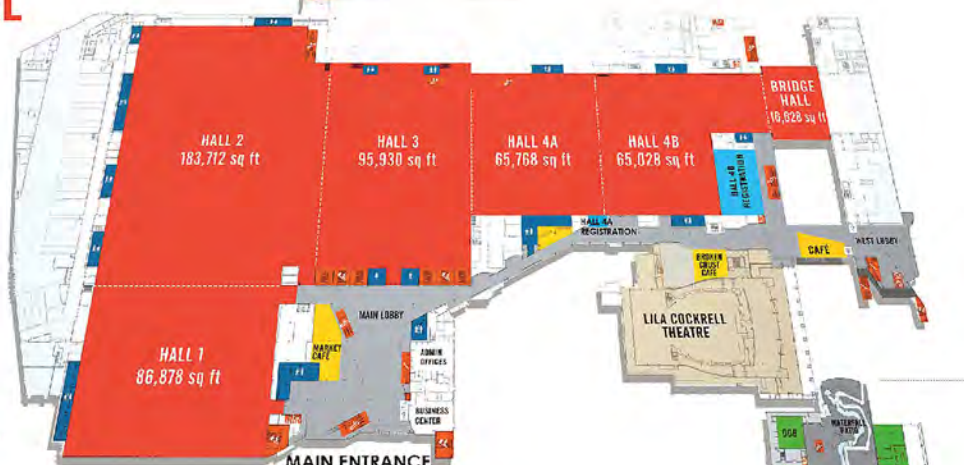
### MEETING LEVEL

Meeting Rooms 205-225



### STREET LEVEL

Exhibit Halls 1-4B  
Bridge Hall  
Lila Cockrell Theatre  
Main Lobby/Business Center  
West Lobby



### RIVER LEVEL

Meeting Rooms 004-008  
TheLDR  
Grotto



EGEND

Exhibit Halls

Meeting Rooms

Ballrooms

Prefunction

Restrooms

Food Service

Vertical Circulation

MARKET STREET

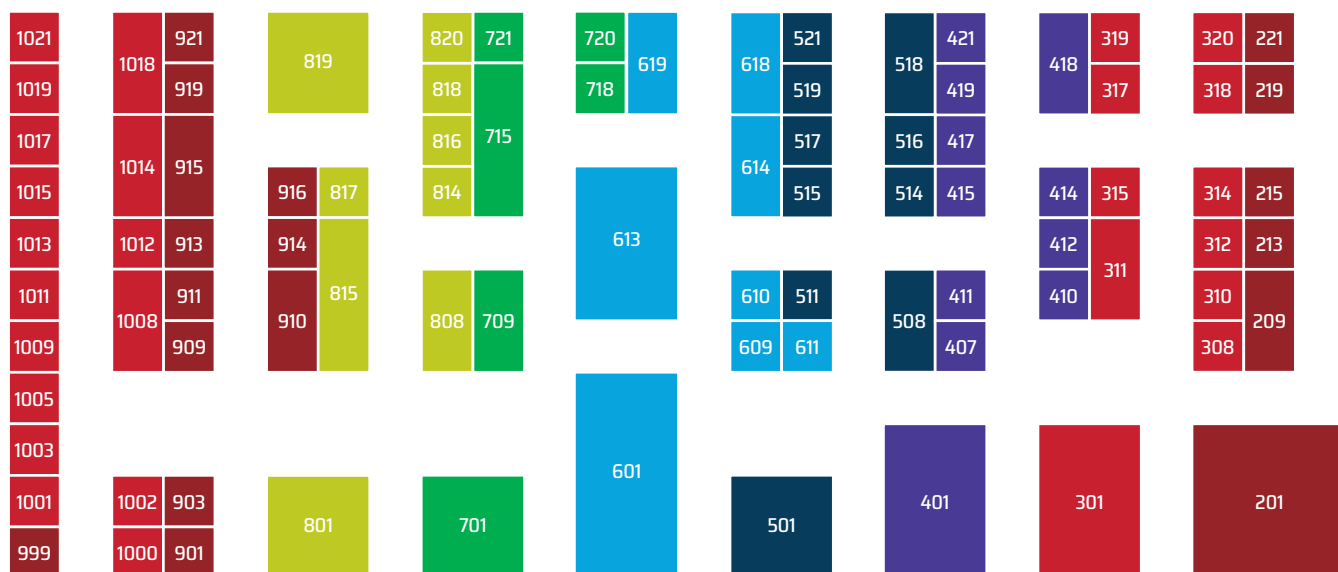
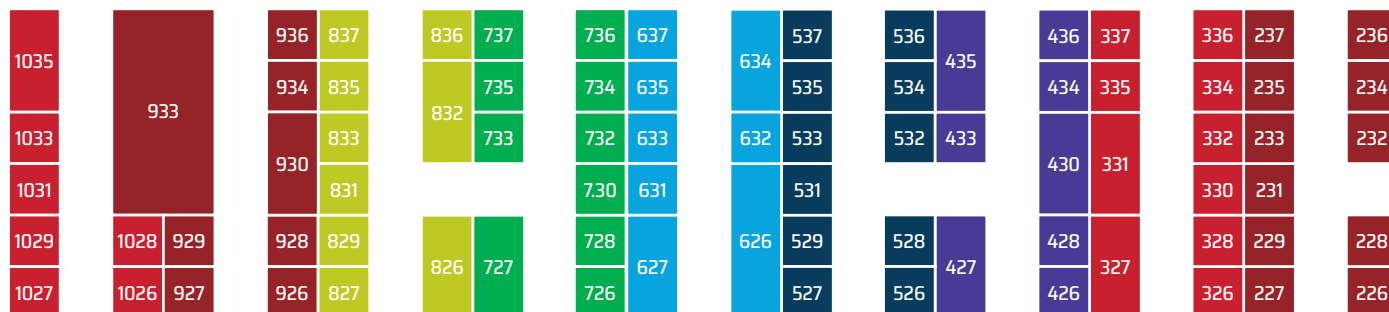


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## Exhibit Hall Map

HENRY B. GONZÁLEZ CONVENTION CENTER



# Exhibitor Index

- 3D Molecular Design, **418**  
 Accelerate Learning, **501**  
 Accelerating Success, **1026**  
 Accu-Scope Inc., **619**  
 ACT2, **610**  
 Activate Learning, **1015**  
 Aldon Corporation, **826**  
 Aldrin Family Foundation, **533**  
 American Association of Chemistry Teachers, **1033**  
 Amoeba Sisters LLC, **736**  
 Anatomage, Inc., **209**  
 Arbor Scientific, **226**  
 Association of Texas Professional Educators, **728**  
 Bat Conservation International, **837**  
 Baylor University, **1009**  
 Bedford, Freeman & Worth Publishers, **410**  
 Bio-Rad Laboratories, **320**  
 BIOZONE Corporation, **720**  
 Blue Origin's Club for the Future, **233**  
 Bozemanscience.com, Inc., **532**  
 Brain Raider, LLC, **632**  
 BrainPOP, **516**  
 Bureau of Economic Geology UT, **831**  
 Capital Microscope Services, Inc., **734**  
 Carolina Biological Supply, **201**  
 Catnip's Word Walls, **227**  
 College of Arts & Sciences, **334**  
 College of Education and Human Development, **330**  
 Dave & Buster's & Main Event, **836**  
 Discovery Dome, **819**  
 Discovery Education, **701**  
 EduSmart, **511**  
 Educated Choices Program, **428**  
 Edvotek, Inc., **421**  
 Estes Education, **231**  
 ExploraVision, **816**  
 ExploreLearning, **926**  
 Field of Mind, LLC, **635**  
 Flinn Scientific, **715**  
 Forde-Ferrier, LLC, **236**  
 GF Educators, **326**  
 Gardyn, **308**  
 Georgia Bio, **318**  
 Girls Who Code, **1031**  
 Great Minds, **613**  
 Guadalupe-Blanco River Authority, **833**  
 Gulf Coast Educators Federal Credit Union, **518**  
 hand2mind, Inc., **1008**  
 HHMI BioInteractive, **412**  
 Holbrook Travel, **228**  
 Houghton Mifflin Harcourt, **609**  
 Houston Museum of Natural Science, **820**  
 iFLY Indoor Skydiving, **336**  
 Informal Science Education Association of Texas, **310**  
 JoVE, **436**  
 KAMICO Instructional Media, Inc., **634**  
 Kesler Science, **727**  
 Lamar University/Risepoint, **835**  
 Lara International, **1005**  
 Learn Engines, **536**  
 Legends of Learning, Inc., **1021**  
 LEGO® Education, **311**  
 Lowman Education, **521**  
 The Markerboard People, **909**  
 Math & Science Cut Ups, **327**  
 McDonald Observatory, **633**  
 McGraw Hill Education, **435**  
 Merge, **733**  
 Minerals Education Coalition, **1027**  
 MiniOne Systems, **514**  
 miniPCR, **614**  
 Mississippi State University, **927**  
 Mosa Mack Science, Inc, **999**  
 Motic Instruments USA, **537**  
 NASA Johnson Space Center, **933**  
 NASA Texas Space Grant Consortium, **1035**  
 NSTA - Army Educational Outreach Program, **829**  
 NSTA - Shell Programs, **718**  
 National Geographic Learning/ Cengage Learning, **709**  
 Natural Bridge Caverns, **631**  
 Natural History Museum of Utah, **911**  
 The NEED Project, **527**  
 The Outdoor School, **526**  
 PASCO, **508**  
 Penda Learning, **1003**  
 Perfection Learning/ Measuring Up, **430**  
 Phenomenon Science Education, **827**  
 Pitsco Education, **328**  
 PocketLab, **737**  
 Propello, **930**  
 RPA TREKS, **910**  
 Region 4 Education Service Center, **915**  
 Savvas, **808**



- School Tours of America, **433**  
Science Mill, **1017**  
The Science Penguin, **232**  
ScienceWear, **921**  
Sea Camp Texas A&M Galveston, **337**  
Second Avenue Learning, **936**  
Seidlitz Education, **1020**  
Seven Sides Publishing, **531**  
Sirius Education Solutions, **618**  
SPARK K12, **331**  
SparkPoint Innovations, **237**  
Sphero, Inc., **414**  
StarLab, **801**  
STEMfinity, **611**  
StoneOak Media, **434**  
Studies Weekly.com, **627**  
The Summer Science Program, **1019**  
Summit K12, **601**  
Switch Classroom, **929**  
Take Care of Texas, **928**  
Tarleton State University, **234**  
TCES, **312**  
TCMPC TEKS Resource System, **934**
- The Teacher Creature Store, **1018**  
TESTA, **517**  
Texan by Nature, **916**  
Texas A&M AgriLife Extension Service Texas Community Watershed Partners, **235**  
Texas A&M Engineering Experiment Station, **335**  
Texas A&M International University Online, **535**  
Texas A&M University Continuing & Professional Education, **332**  
Texas A&M University-Commerce, **735**  
Texas Association for Environmental Education, **519**  
Texas Association of Biology Teachers, **415**  
Texas AWWA, **1014**  
Texas Corn Producers, **1012**  
Texas Education Agency, **913**  
Texas Instruments, **301**  
Texas Medical Association, **529**  
Texas Mining and Reclamation Association, **730**
- Texas Parks and Wildlife Department, **721**  
Texas Water Development Board (TWDB), **919**  
Think Big Learning, **815**  
Toshiba/NSTA ExploraVision, **413**  
TSAAPT, **221**  
TSELA, **315**  
The University of Texas at Austin - Engineer Your World, **528**  
The University of Texas at Austin - WeTeach\_CS, **426**  
UT - Center for Subsurface Energy and Environment, **732**  
UT Southwestern - STARS Program, **1028**  
Vernier Software & Technology, **401**  
ViewSonic Corp, **726**  
Visible Body, **427**  
The Walking Classroom, **534**  
Ward's Science, **626**  
Win Win Scientific, **1029**  
The Witte Museum, **832**  
WorldStrides, **229**  
zSpace, Inc., **914**

## STAT Staff

A team of association professionals manage STAT's daily operations from the STAT office in Austin, Texas.



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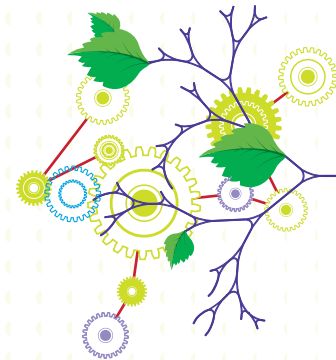
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STAT enjoys its status as the premier state science educator association due to the passion and commitment of our membership and the hard work and dedication of volunteers who have served in leadership roles over the last 60 years. Hundreds of teachers in Texas have served on planning committees and in governing roles with affiliate groups and STAT. We are proud to honor and recognize the individuals who have served as STAT Board President and played a critical role in the growth and success of STAT.

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1958-59   John Pickens	1981-82   Ken Walla	2004-05   Vanessa Westbrook
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1960-61   Elaine Ledbetter	1983-84   Karen Reeves Prince	2006-07   Kenn Heydrick
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1963-64   Marjorie Behringer	1986-87   Sandra West	2009-10   Patsy Magee
1964-65   Larry O'Rear	1987-88   Homa Hill	2010-11   Joel Palmer
1965-66   Sister Jean F. Minner	1988-89   Marla Stone	2011-12   Ross Ann Hill
1966-67   Jesse Dorrington	1989-90   Thomas Gadsden	2012-13   Sharon Kamas
1967-68   Inez Robinson	1990-91   Wayne Gordon	2013-14   Donald Burken
1968-69   John Hicks	1991-92   Betty Crocker	2014-15   Melana Silva
1969-70   Gary Atwood	1992-93   Robert Beck Clark	2015-16   Matthew Wells
1970-71   Alfred Aguirre	1993-94   Mavis Rollins	2016-17   George Hademenos
1971-72   Arthur Wilcock	1994-95   Jeannette Branchizio	2017-18   Laura Lee McLeod
1972-73   Frank Butcher	1995-96   Steven Rakow	2018-19   Terry White
1973-74   Frank Butcher	1996-97   Catherine Carlson	2019-20   Linda Schaaake
1974-75   Virginia A. Stacey	1997-98   Rebecca Coker	2020-21   Kara Swindell
1975-76   Gerald Skoog	1998-99   Buena (Dusty) Milson	2021-22   Jennifer Meyer
1976-77   James B. Boyce	1999-00   Fred Fifer	2022-23   Kiki Corry
1977-78   Glen Van Zandt	2000-01   Linda Knight	2023-24   Kenric Davies
1978-79   Otis Smith	2001-02   Roger Stryker	
1979-80   Linda Perez	2002-03   Timothy Holt	



**Professional Development Documentation Form**  
**CAST24 | Henry B. González Convention Center | San Antonio, Texas**

For each session you attend, record the course number, title, and time. Course numbers are available on the CAST24 website **here**. Total the hours for the conference. The Professional Development Certificate on the reverse side of this sheet should be completed with the total number of hours.

Conference activities that qualify for Professional Development hours include speakers, featured sessions, and workshops. Social activities do not qualify for hours.

**Thursday, November 14, 2024**

Course #	Session Title	Time	Hours

**Friday, November 15, 2024**

Course #	Session Title	Time	Hours

**Saturday, November 16, 2024**

Course #	Session Title	Time	Hours

I agree that the information I have provided on this form is true and accurately describes my participation in CAST24 in San Antonio, November 14–16, 2024.

Name: \_\_\_\_\_ Total Hours: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



## **Certifies That**

---

Print Full Name Above

Has completed \_\_\_\_\_ clock hours of  
Professional Development during the statewide

### **CONFERENCE FOR THE ADVANCEMENT OF SCIENCE TEACHING (CAST)**

**November 14–16, 2024**

**Henry B. González Convention Center | San Antonio, Texas**

A handwritten signature in black ink, appearing to read "Devorah Jakubowsky", is written over a light gray rectangular background.

**Devorah Jakubowsky, CAE, STAT Executive Director**

Attendance log on reverse side

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