

Session-at-a-Glance

9:00 am – 10:00 am

Session 1

Breaking Stereotypes in STEM <i>Brandy Jones & LaTonya Martin - Alief ISD</i>	1213
STEMify your Mathematics Classroom with Sphero Robots! <i>Valerie Blackburn & Lisa Richardson - Blackburn STEM Ed. Consulting</i>	1215
Brown Bag STEM Challenges <i>Doris Tomas & Joy Sloan - Oilfield Energy Center</i>	1217
School Administrators' Perceptions of STEM Awareness and Resources <i>Sandy Watson & Thomas Cothorn - University of Houston-Clear Lake</i>	1135
Building and Sustaining an After-School STEM Club <i>Samuel Saenz & Joel Seymour - East Early College High School</i>	1333
Composite Science Certification of Physics Teachers: Impact on STEM Development <i>Philomena Agu - University of Houston</i>	1335
STEM in Space: Experiments in Space & What to Expect <i>Monica Trevathan & Patricia Mayes - Gateway Research & C&I Services</i>	1313

10:20 am – 11:20 am

Session 2

Lab Tour: UHCL's Biotechnology Facility <i>Dr. Larry Rohde – UHCL Chair of the Biological and Environmental Sciences Department</i>	Atrium II Tours Table
STEM on a Budget <i>Lisa Brady & Morgan Brady - Alvin ISD</i>	1213
Playful Learning: Engaging STEM Strategies for the Early Childhood Learner <i>Joy Lynn Sloan & Doris Tomas - Oilfield Energy Center</i>	1217

Exploring a Successful STEM Elementary School 1135
Carol Waters - University of Houston-Clear Lake

All the Light Stuff 1215
Lisa Felske - Harris County Department of Education

STEMscopes Math! What's New and Exciting in Math! 1302
Lisa Dentler - STEMscopes

Hispanic Graduates Perceptions of Academic and Social Support Retention Services at a Baccalaureate Nursing Program 1333
Geny Moreno - University of St. Thomas

Develop and Retain High-Performing and Inspiring Role Models in STEM Education. Eliminate the Havoc and Increase Engagement by Initiating Proven, Evidence-Based Behavioral Interventions 1335
Andrea Louise Huff - Andrea Huff - Trainer

11:30 am – 12:30 am

Session 3

Lab Tour: UHCL's Chemistry Facilities **Atrium II Tours Table**
Dr. Anton Dubrovskiy – UHCL Chair of the Chemistry Department

What? Symmetry in Nature 1217
Marianne Phillips & Julie Vowell - Texas A&M University-San Antonio

The Pod Dolphin Trunk: Free Resource for Teachers 1213
Cindy Wilems & Kristi Fazioli - Galveston Bay Foundation & UHCL EIH

Culturally Relevant Teaching Strategies: Preparing Pre-Service Teachers to Teach STEM in Middle School & High School 1333
Paige Evans, Leah McAlister-Shields, Uchenna Emenaha, Ha Nguyen, & Kerry Ademosun - teachHouston

Changing Achievement with STEM Teacher Actions and STEM Certification 1135
Lisa Dentler - STEMscopes

Using Books like The Martian to Inspire and Engage Your STEM Classroom 1302
Robert Haddock - Penguin Random House

UTMB TEX2 Externship Experience 1215
*Valerie Blackburn, Lisa Richardson, Treveon Murdock,
& M. Sognier – UTMB Tex2 Externship*

**Galveston Bay Report Card Champion Program and Workshop:
Cultivating Conservation Leaders in the Houston-Galveston Area** 1335
T'Noya Thompson - Galveston Bay Foundation

1:50 pm – 2:50 pm

Session 4

What's in a Watershed? High School Edition 1213
Cindy Wilems & Megan Imme - Galveston Bay Foundation

Teaming-Up for STEM 1215
Robert Jones & Antonio Corrales – University of Houston–Clear Lake

Exploring the "T" in STEM 1333
Alex Jones - Houston ISD

Career Explorations CAN be Fun! 1217
*Valerie Blackburn, Treveon Murdock, Lisa Richardson, & M. Sognier – UTMB &
BlackburnSTEM*

**How Biographies of Senior Scientists Can Be Motivating for
Students Considering a STEM Career** 1335
Paul Wagner – University of Houston–Clear Lake

Just the Facts... 1135
Patty Low - ExploreLearning

**Part 1: Birding Across the Curriculum: Using Ornithology to
Engage Students in STEAM** 1313
Juli Salzman – Angleton ISD's STEAM Ambassadors

3:00 pm – 4:00 pm

Session 5

Data+Patterns = Art! 1217
Amanda Rinehart, Aly Munger, & Karissa Laffey - Artist Boat

Supporting Positive Relationships Through Family STEM Nights <i>Christy Irvin - Channelview ISD</i>	1213
Part 2: Birding Across the Curriculum: Using Ornithology to Engage Students in STEAM <i>Juli Salzman – Angleton ISD’s STEAM Ambassadors</i>	1313
Enhancing STEM Curriculum with Virtual Simulations <i>Patty Low - ExploreLearning</i>	1215
Recruitment and Developing STEM Faculty of Color <i>Janine Hardy - Seton Hall University</i>	1135
What’s the Big Idea? A Glimpse into Current Themes for Elementary Science Educators <i>Julie Vowell & Marianne Phillips - Texas Wesleyan University & Texas A&M University-San Antonio</i>	Forest Room
Using Hobbies to Encourage Girls in STEM <i>Soma Datta – University of Houston–Clear Lake</i>	Forest Room
Students of Color and STEM Education: Experiences Matter <i>Sheryl Jefferson - Prairie View A&M University Undergraduate Medical Academy</i>	Forest Room
STEMify Your Traditional Science Lab <i>Faryal Shaukat & Selene Reyes - Pasadena ISD</i>	Forest Room