



*Shoring Up  
Environmental Education*

2019 TAE Conference

Sea Star Base Galveston Island

September 27 & 28, 2019

Keynote Speaker – Karla Klay  
Artist Boat



# Welcome!

## Location

Sea Star Base Galveston Island  
7509 Broadway  
Galveston, Texas 77554

Exterior [Video](#) movie on YouTube

[Directions to Sea Star Base Galveston](#) When you exit 71st street (exit 1B) from I-45 South, the entrance to the base is directly *after* the entrance to the Galveston Community Youth Sailing Center. It's easy to miss, so watch out!

## Lodging

Sea Star Base offers dormitory, bunk-style accommodations for Thursday, Friday, and Saturday night. Provide your own linens. The cost is \$45.00/night. Each space has a kitchenette with a fridge and sink, as well as a lounging area. [Video Tour](#) link to Google.

## Meals

Friday lunch & dinner and Saturday continental breakfast & lunch provided.

## What to expect

- ✓ A mixture of seasoned and new environmental educators
- ✓ Friday workshop or field trips, Saturday short courses or breakout sessions, and Saturday "EE Speed Networking" activity to meet organizations that support EE.
- ✓ Lots of socializing and networking with old and new friends.
- ✓ Inspiration and immediately applicable tools and ideas.

## What to bring

- Fishing license & gear (Sat afternoon off pier)
- Water bottle & coffee mug (reuse!)
- Comfortable clothes/shoes
- Linens if staying on site
- Binoculars
- Sunscreen and insect repellent
- Curiosity and enthusiasm
- Vision for what EE can be
- Silent Auction item
- Yoga mat
- Computer/iPad and charger
- Business cards
- GEE workshop: downloaded materials
- Field trip: closed-toed shoes
- Artist Boat: waiver, dress to get wet!

## Silent Auction

Educational and gift items will be up for auction. All proceeds support environmental education in Texas. Donations to the Silent Auction are appreciated. Donation receipts are available. Cash, checks, and credit cards accepted!

## Donations: TAEЕ thanks these organizations

[Welder Wildlife Foundation](#)

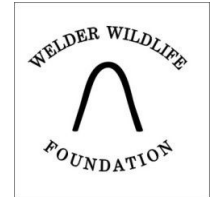
[Texas Parks & Wildlife Department](#)

[iZone Imaging](#)

[Artist Boat](#)

[Texas A&M University – Sea Camp](#)

[North American Association for Environmental Education](#)



## Keynote Speaker at Friday's Dinner & Member Meeting--- Karla Klay, Executive Director of Artist Boat



Karla Klay is the founding director of Artist Boat. She has over 25 years of experience in arts and environmental education. Artist Boat was incorporated as a 501(c)(3) in 2003 by a board of directors representing artists and scientists from universities, government, and the private sector in Galveston, Harris, and Dallas counties and gathering over 150 years of educational experience between nine board members. Since its inception over 100,000 participants have engaged in Artist Boat's unique Eco-Art Programs, a hands-on, place-based, and experiential learning formed in the context of marine ecosystems and coastal margins of the Texas coast.

Through her leadership, 48,000 underserved youth and members of the public have paddled our estuary, restored 53+ acres of coastal habitats, created public art interpreting coastal ecosystems on 50 campuses and the Galveston Seawall, conserved 600 acres of land forming the Coastal Heritage Preserve, and created habitats on eight campuses.

Karla holds a Bachelor of Fine Arts from Southern Methodist University and a Bachelor of Science from Texas A&M University in Marine Biology. She completed the Yale Conservation Finance Course on scholarship in 2011. She completed the Rice University Leadership Institute for Nonprofit Executives program in 2013. Karla was selected by the National Audubon Society in 2012 as a national leader, receiving the TogetherGreen National Leaders Fellowship Award for her role in conservation on the Gulf Coast. She was awarded the Gulf Guardian Award in 2013 by the EPA Gulf of Mexico Program for her contribution to the Gulf of Mexico communities in the field of environmental and place-based learning.

**Thursday**

6:00 - 8:00

Registration and Informal Social for those staying at Sea Star Base Thursday night

**Friday**

Conference Field Trips	Galveston Island State Park 8:00 - 11:00	Sea Camp at Texas A&M 1:00 - 3:00	Artist Boat Kayak Tour 9:00 - 3:00
	Lunch at Coastal Grill on the Strand		Picnic on trip
7:00 - 10:00	Registration; Drop off Silent Auction Items and check in for Friday night lodging		
10:00 - 3:00	Guidelines for Excellence in Environmental Education Workshop on 5th floor of Sea Star Base		
4:00 - 6:00	BaySmart Boat Tour of Galveston Bay for GEE workshop and Artist Boat attendees Or Triton Boat Tour of Galveston Bay for 30 Field Trip attendees		
4:00 - 6:00	Meet & Greet Social on the Pavilion Check in for Friday night lodging		
6:30 - 8:30	Evening Program at SSB, including dinner, member meeting, keynote speaker, Exhibition Fair & Silent Auction		
8:30 - 9:30	Technology Night Hike		

**Saturday**

7:00 - 7:30	Morning Yoga with Ande on the Pavilion & registration			
7:00 - 8:00	Continental Breakfast on the Pavilion			
	Room A	Room B	Room C	Pavillion
8:00 - 8:30	Why Should Kids Have All the Fun?	Birding in the School Yard	Home on the Range	
8:45 - 9:15	It's Only Natural	Student-Led Design & Build for Watersmart Landscapes		Lionfish: Reef Raiders in the Gulf
9:30 - 10:00	H2O -Where Does It Come From? Where Does It Go?	Meaningful Field Trips for Students, Teachers & Docents		So Nice, Do it Twice! Lionfish in the Gulf
10:15 - 10:45	Plant a Prairie	Storm+Sea+Sand +Strand		Water Characteristics with Rainfall Simulator
11:00 - 11:30	Next Generation Land Stewards	Watershed - High School Edition		So Nice, Do it Twice! Rainfall Simulator
11:30 - 12:00	Lunch on the Pavilion			
12:00 - 1:00	Speed-Networking on the Pavilion			
1:15 - 1:45	Escape! An Outdoor Experience	Inspiring Good Stewardship	Growing Up Wild	Big Ideas of Sustainability with CELF
2:00 - 2:30	After the Flood - Community Healing	Teaching Environmental Justice		
2:45 - 3:15	Virtually Wild Texas!	Earth Science w/Differentiated Instruction		Angling and Boat Safety Demonstration--

3:30 - 4:00	It's Out There - Coral Reefs			Bring gear and license to catch your own dinner!
5:00		Human Impact on Marine Ecosystems	TMEA Mtg Starts	
End of Conference; Pick up Silent Auction items				

## Schedule

### Thursday, September 26, 2019

- 1:00 – 5:00 TAAE Annual Board Meeting at Texas A&M Sea Camp
- 6:00 – 8:00 Registration and Informal Social for those arriving early to Sea Star Base; look for registration table in the breezeway & unpack your bags! Want to join us for dinner? Call Alicia at 210-831-4336 to find the group's current location on the island!

### Friday, September 27, 2019

Registration table open from 7:00 to 10:00 on the breezeway at Sea Star Base - check in, pay outstanding balances, find some swag, get a nametag, drop off Silent Auction items & unload linens for overnight stay.

8:00 – 3:30 Field Trip One: Meet at the pavilion at Sea Star Base at 8:00 to **carpool** to Galveston Island State Park. Lunch at [Coastal Grill](#), at 1827 Strand Street, from 11:30 to 1. Texas A&M Sea Camp tour from 1 to 3:30. Thirty participants can ride the Triton boat cruise from 3:45 - 5:30.

9:00 – 3:00 Field Trip Two: Meet at the pavilion at Sea Star Base at 9:00 to carpool to the Artist Boat launch site, with picnic lunch included. Pre-registration required.

10:00 – 3:00 *Guidelines for Excellence in Environmental Education Workshop* at Sea Star Base; once you park at Sea Star Base, use any stairs or elevator to go to the 5th floor of the large, concrete building. Pre-registration required.

3:45 - 5:30 Triton Cruise through Bay departing from Texas A & M (for participants of the Sea Camp field trip)

4:00 – 6:00 BaySmart Cruise through Bay departing from Sea Star Base (for participants of the Artist Boat or Guidelines workshop)

4:00 - 6:00 Meet & Greet Social on the Pavilion at Sea Star Base (no reservation needed)

6:30 – 8:30 Program for all members: Enjoy a sunset dinner on the bay at Sea Star Base during our annual meeting (including a presentation on becoming a certified environmental educator and a behind-the-scenes look at Sea Star Base, a Certified Platinum LEED building) and awards ceremony. The evening features an inspiring keynote presentation by Karla Klay, founder of Artist Boat. Silent Auction opens and exhibitors will be on hand *tonight only*. Once you park at Sea Star Base, use any stairs or elevator to go to the 5th floor of the large, concrete building.

8:30 – 9:30 *Enhancing Nights Hikes with Technology*, with Jerrel Geisler, on the grounds of SSB

## Saturday, September 28, 2019

Silent Auction is open ALL DAY in Room D (with the snacks). Pick up items at the end of the conference.

7:00 – 7:30 Morning Yoga with Ande on the pier (BYO mat)

7:00 – 8:00 Continental Breakfast on the Pavilion

8:00 – 11:30 *Home on the Range Workshop* (pre-registration required) Room C

Concurrent Sessions:

	8:00-8:30	8:45-9:15	9:30-10:00	10:15-10:45	11:00-11:30
<b>Room A</b>	Why Should Kids Have All the Fun?	It's Only Natural	H <sub>2</sub> O-Where Does It Come From? Where Does It Go?	Plant a Prairie	Next Generation Land Stewards
<b>Room B</b>	Birding in the School Yard	Student-Led Design Build for Watersmart Landscapes	Meaningful Field Trips for Students, Teachers and Docents	Storm+Sea+Sand+Strand	Watershed - High School Edition
<b>Pavillion</b>		Lionfish: Reef Raiders in the Gulf	Lionfish: Reef Raiders in the Gulf, Round 2	Water Characteristics with Rainfall Simulator	Water Characteristics with Rainfall Simulator, Round 2
<b>Room C</b>	Home	On	The	Range	Workshop
<b>Room D</b>	Silent	Auction	&	Snacks	Yea!

11:30 – 12:00 Lunch on the Pavilion

12:00 – 1:00 Speed-Networking on the Pavilion

2 sessions from 12:00 to 12:15 and 12:15 to 12:30

### Round 1 Table Hosts

1. Della Barbato, Director of Education at Native Prairie Association of Texas
2. Kyle O'Haver, Introduction to the Galveston Island State Park
3. Jerrel Geisler, Harris County Precinct 4: Capturing Natural (Wild) Footprints of Local Animals
4. Brenda Weiser and Sally Wall, NAAEE
5. Marti Copeland, TAEE: Become a Certified Environmental Educator
6. Kristi Pierce, Harris-Galveston Subsidence District/Water Conservation
7. Lorena Elser, Texas A&M Sea Camp
8. Allen Cross, Power Squadron and Americans Boating Club
9. Lisa Gianukos, Children's Environmental Literacy Foundation
10. Kirk McDaniel, REI

2 sessions from 12:30 to 12:45 and 12:45 to 1:00

### Round 2 Table Hosts

1. Shelley DuPuy, NOAA: Introduction to the Flower Garden Banks National Marine Sanctuary
2. Julie Seymour, Earth X
3. Andrew Duggan, Studio Outside
4. Brad Huckaby, iZone
5. Kevin Wickersham, TAEE: Become a Volunteer for TAEE
6. Tiffany Ritter, Houston Arboretum: Nature Play and How to Have a Temporary Loose Parts Program in Your Playground
7. Barbara Beach, Leopold Education Project
8. Alicia Mein-Johnson, hereinhouston.org and cechouston.org
9. Cat Janda, Finca Tres Robles Urban Farm
10. Dawn Chegwidden, Texas Marine Educators Association

1:15 – 4:30 *Growing Up Wild Workshop* (pre-registration required) Room C

### Concurrent Sessions

	1:15-1:45	2:00-2:30	2:45-3:15	2:45-4:00	3:30-5:00	4:15-5:00
<b>Room A</b>	Escape! An Outdoor Experience	After the Flood: Community Healing	Virtually Wild Texas!		It's Out There - Coral Reefs	
<b>Room B</b>	Inspiring Good Stewardship	Teaching Environmental Justice		Earth Science w/Differential Instruction		Human Impact on Marine Ecosystems
<b>Pavilion</b>	Big Ideas of Sustainability with CELF	Continued		Angling and Boat Safety	Continued	
<b>Room C</b>	Growing	Up	Wild	Workshop		
<b>Room D</b>	Silent	Auction	&	Snacks		

5:00 Conference Ends. Remember to pick up your Silent Auction item!  
Texas Marine Educators Association Meeting begins on 5th floor--  
contact [Dawn](#) Chegwidden

## Session Details

### *Friday Morning Through Mid-Afternoon*

#### **Option One: Private kayak tour with Artist Boat (pre-registration required)**

The mission of Artist Boat is to promote awareness and preservation of coastal margins and the marine environment through the disciplines of the sciences and the arts. Meet at the pavilion at Sea Star Base at 9:00 a.m. to carpool to the event; expect to return around 3:00 p.m. Includes kayak, art supplies, and picnic lunch. Participants will receive 4 hours of CPE and TEEAC credit.



### ***Option Two: Did someone say free field trip?***

Take a guided birding tour at Galveston Island State Park with Kyle O'Haver in the morning, enjoy lunch at the Coastal Grill on the inimitable Galveston Strand, and experience an up-close look at Sea Camp at Texas A&M University with Lorena Elser in the afternoon. Meet at the pavilion at Sea Star Base at 8:00 a.m. to carpool to these experiences together, before returning around 3:00 p.m. Or meet us along the way. Participants will receive 5 hours of CPE and TEEAC credit.

### ***Option Three: EE Guidelines for Excellence (pre-registration required)***

Through the National Project for Excellence in Environmental Education and the North American Association for Environmental Education, Brenda Weiser and Sally Wall will host a workshop at Sea Star Base on how to use the *Guidelines for Excellence* to develop balanced, scientifically accurate, and comprehensive environmental education programs and materials. Workshop runs from 10 to 3 on the 5th floor at Sea Star Base and includes lunch and materials. Participants will receive 5 hours of CPE and TEEAC credit.

## ***Friday Evening Programs, 6:30 - 8:30 p.m.***

*All aboard* the Baysmart Express or Texas A&M Triton at 4:00 p.m. for a cruise through Offats Bayou and Galveston Bay **or** drop by for a meet & greet social on the pavilion at Sea Star Base. At 6:30 p.m., join us at Sea Star Base for dinner, our annual member meeting, an inspirational speech from Karla Klay, awards, a silent auction, exhibitor tables, and more! You'll also learn how to become a certified environmental educator in Texas and get a behind-the-scenes look at Sea Star Base, a Certified Platinum LEED space.

**Exhibitors: Urban Harvest, Project WILD, Leopold Education Project, Galveston Island State Park, Harris County Precinct 4, NOAA, UH-Clear Lake, Texas A&M Aggie Sea Camp, Sea Star Base, Finca Tres Robles, REI, Texas A&M Galveston Admissions Office, iZone, Moody Gardens**

## ***Friday Night Dessert, 8:30 - 9:30 p.m.***

### **Enhancing Night Hikes with Technology**

***Jerrel Geisler of Kickerillo-Mischer Preserve in Harris County Precinct 4***

Night hikes can be enhanced using UV light and electronic bat detection. We will demonstrate the use of ultraviolet (UV) light, electronic bat detection, and other items. We will attempt to locate insects that fluoresce, as well as plants and other organisms that change colors, and survey which animals use UV to their advantage. Electronic bat detectors will be used to see if any local bats are still "hanging" around.

## ***Saturday Workshops (pre-registration required)***

### **Home on the Range, 8:30 - 11:30 a.m.**

***Mandy Krause, Rangelands Program Coordinator, Welder Wildlife Foundation***

Join us for a fun and interactive workshop and receive our popular K-5<sup>th</sup> grade *Rangelands: A Conservation Education Guide* digital curriculum. Attendees will participate in hands-on activities and discover techniques to engage students in outdoor classroom settings. This curriculum provides students with an opportunity to establish real-world connections to science while



learning about rangeland and natural resource conservation. Activities emphasize experiential learning through investigations of water, soils, plants, wildlife, livestock, ecosystem services, and stewardship, and use a variety of teaching methods. Lesson plans are detailed and easy to follow, require inexpensive materials and minimal preparation, and are designed to meet the needs of all students! Participants will receive 3 hours of CPE and TEEAC credit.

### **Growing Up WILD Workshop, 1:30 - 4:30 p.m.**

*Laura Rojas, Growing Up Wild Facilitator*

Growing Up WILD is an early-childhood education program that builds on children's sense of wonder about nature and invites them to explore wildlife and the world around them. Through a wide range of activities and experiences, Growing Up WILD provides academic skills to learn how to think, not what to think, about wildlife and the environment. All curriculum materials are backed by sound educational practices and theory and represent the work of many within the fields of education and natural resource management from across the country. Participants will receive 3 hours of CPE and TEEAC credit. Additional charge of \$35 applies for this workshop.

### ***Saturday Concurrent Sessions***

Participants will receive 30 minutes of CPE and TEEAC credit for each session, unless otherwise noted.

**8:00 - 8:30**

#### **A. Why Should Kids Have All the Fun? Campus Campouts as a Pathway to Nature and Community**

*Jennifer Evans of Families in Nature*

Come learn how you can start a family campout in your school or community with practical tools and lessons learned from FIN's innovative Schools-to-Parks Campout Program, which recreates the best parts of a wilderness campout on-campus in a safe, welcoming, and community-building environment.

#### **B. Birding in the Schoolyard: A Hands-on Approach to Teaching Adaptations**

*Stephanie Weber and Carol Garrison of John Bunker Sands Wetland Center*

What better way is there to teach adaptations than by looking at birds! Birds are an easy way for students to learn about adaptations that allow them to survive in their environment. This session will provide teachers with hands-on activities about bird adaptations that can be used in the classroom.

**8:45 - 9:15**

#### **A. It's Only Natural**

*Doris Tomas & Joy Sloan of the Oilfield Energy Center*

Engage your students with a plethora of hands-on activities dealing with natural resources. Participate in Natural Resource Bingo, go on scavenger hunts, create a foldable, solve puzzles, and play the Natural Resource Game. View various ways to create mini-learning stations in your classroom.

#### **B. Environmental Leadership: Student-led Design and Build of Watersmart Landscapes**

*Amanda Rinehart of Artist Boat*

*We Back the Bay* spanned the environmental education continuum, from building awareness to creating action. A combination of classroom and outdoor sessions increased knowledge and improved student attitudes, and stewarded Galveston Bay via the student-led design and installation of WaterSmart Landscapes.

**On the Pavilion -- Lionfish: Reef Raiders in the Gulf**

*Kelly Drinnen of Flower Garden Banks National Marine Sanctuary*

Invasive lionfish are wreaking havoc on coral reefs throughout the Gulf of Mexico and Caribbean. Learn the details of this invasion and observe some lionfish dissections to find out what they've been eating.

**9:30 - 10:00**

**A. H2O -- Where Does It Come From? Where Does It Go?**

*Doris Tomas & Joy Sloan of the Oilfield Energy Center*

Come have fun in this elementary-level, hands-on, make-and-take workshop on the water cycle. We will make a bracelet, foldable, bookmark, and cute "umbrella in the rain" poem or word wall. We will sing, play "I Have, Who Has?," write a story using story starters and endings, and play a matching game.

**B. Meaningful Field Trips for Students, Teachers, and Docents**

*Tiffany Ritter of the Houston Arboretum*

Discuss the rewards and challenges of creating lasting relationships with Title 1 schools in Houston's urban environment. The Houston Arboretum & Nature Center's Adopt-A-School program provides free field trips to an entire elementary school, K-5, twice a year. Urban students return year after year, becoming more comfortable in the outdoors, forming relationships with nature, and building on classroom lessons and their experiences from previous visits. Teachers find these long-term commitments more meaningful than "one-and-done" trips, and docents are inspired to see the positive changes in students as they grow. We'll provide success and failure stories, results from various evaluation studies, reflections from long-term docents, and tips from our Development Director.

**C. On the Pavilion -- So nice we're doing it twice! Lionfish: Reef Raiders in the Gulf**

*Kelly Drinnen of Flower Garden Banks National Marine Sanctuary*

Invasive lionfish are wreaking havoc on coral reefs throughout the Gulf of Mexico and Caribbean. Learn the details of this invasion and observe some lionfish dissections to find out what they've been eating.

**10:15 - 10:45**

**A. Plant a Prairie**

*Jim Isleib, Westchester Academy for International Studies*

Bring this endangered ecosystem to your students and open a window to real, live learning. Join a network of pocket prairie teachers as we share how to establish a prairie and the resulting learning opportunities. Participants leave with a packet of 24 different wildflower seeds.

**B. Storm + Sand + Sea + Strand: Interpreting the Post-Ike Vision for Galveston State Park**

*Andrew Duggan of Studio Outside*

Galveston Island State Park was ravaged by Hurricane Ike in 2008. The restoration plan seeks to engage visitors in the island's many overlapping storylines. Learn how the restored park vision will inspire a visitor's confidence and curiosity to explore the diverse island landscape

**C. On the Pavilion -- Demonstrating Watershed Characteristics and Management with a Rainfall Simulator**

*Scott Lightle & October Smith of Long Acres Ranch and Texas A&M Natural Resources Institute*

Learn to use a rainfall simulator to teach watershed management, the water cycle, pollution, weathering and erosion, water quality, and human impact on natural resources.

**11:00 - 11:30**

**A. Developing The Next Generation of Land Stewardship Ambassadors**

*Alana Kardon of the Witte Museum and Masi Mejia of the East Foundation*

These organizations teamed up to educate 29 urban youth on the public benefits of land stewardship and empower them to become advocates for the environment. The ten sessions covered topics such as the history of conservation, economics, and diversity in the natural resource field.

**B. What's in a Watershed? High School Edition**

*Cindy Wilems & Megan Imme of the Galveston Bay Foundation*

Looking for new and updated lessons involving watersheds and point/nonpoint source pollution? In this session, 9th-12th grade teachers will be introduced to new lessons created by the Galveston Bay Foundation that they can integrate into their current curriculum. Make sure to bring your laptop!

**C. On the Pavilion -- So nice we're doing it twice! Demonstrating Watershed Characteristics and Management with a Rainfall Simulator**

*Scott Lightle & October Smith of Long Acres Ranch and Texas A&M Natural Resources Institute.*

Learn to use a rainfall simulator to teach watershed management, the water cycle, pollution, weathering and erosion, water quality, and human impact on natural resources.

**1:15 - 1:45**

**A. Escape! An Outdoor Experience**

*October Smith of Long Acres Ranch*

Carefully crafted, an escape room-type challenge can promote interest in the subject being presented while encouraging teamwork and problem-solving skills. In this session, we will engage in a few puzzles, and then learn the specifics of how you can create your own escape room challenge--even outside!

**B. Inspiring Good Stewardship of the Earth Using Inexpensive (or FREE) Environmental Educational Resources**

*Julie Seymour of EarthX*

Promoting environmental awareness and a call to action in our youth is a primary need in our society. Participants will review several resources that provide lessons/projects on a wide range of environmental topics to educate students and promote their ability to affect change.

**2:00 - 2:30**

**A. After the Flood: Community Healing with PBL**

***Kathleen Goerner of Humble ISD***

In 2017, Hurricane Harvey devastated the Lake Houston area. The buildings have been restored, but the recovery and healing is ongoing. A grant from the Humble ISD Education Foundation funded a multicampus initiative to explore the dynamics of the flood and how to restore and protect our local watershed.

**B. Circle Acres: Teaching Environmental Justice in Austin**

***Kevin Wickersham of TAEF***

Despite rampant past degradation, southeast Austin's Circle Acres Nature Preserve now provides forested wetland habitat for abundant wildlife. Set in an urban area predominantly of color and low socioeconomic status, its work offers empowering educational programs for local students and residents.

**Room A**

**2:45 - 3:15**

**Virtually Wild! Texas – Bringing Nature and Career Exploration to Youth without Leaving Campus!**

***Caroline Cruz (Texas A&M Forest Service) and Nancy Brown (U.S. Fish and Wildlife Service)***

*Virtually Wild! Texas* is a TEKS-based nature program for schools, hospitals and other facilities serving youth. ~7,000 youth from schools and hospitals have been reached using an iPhone and teleconferencing technology. Students virtually travel to real forests, coastal wetlands, prairies, and more. Participants will receive :45 minutes of CPE and TEEAC credit.

**3:30 - 5:00**

**It's Out There! – Coral Reefs**

***Shelly DuPuy of NOAA Flower Garden Banks National Marine Sanctuary***

Flower Garden Banks National Marine Sanctuary features coral reefs and other habitats that few people think of as being present in the northern Gulf of Mexico. Learn about the reefs, effects of upland activities and games that illustrate coral reef construction and how we affect them. Participants will receive 1.5 hours of CPE and TEEAC credit.

**Room B**

**2:45 - 3:55**

**Power Up Earth Science With Differentiated Instruction**

***Daryle Esswein and Kirah Martinez of the Oilfield Energy Center***

Join our hands-on presentation to learn how to energize your classroom in Earth Science. Learn about our resources from the Oilfield Energy Center. Participants will receive 1 hour of CPE and TEEAC credit.

**3:55 - 5:00**

**Our Wet Footprint: Teaching About Human Impacts on Marine Ecosystems**

***Brian Shmaefsky, Ph.D. of Lone Star College***

Through hands-on/minds-on activities, explore how human activities and technology have affected marine ecosystems, including the Texas Gulf Coast, from the Industrial Revolution until

today. Engage in simulations, labs, and discussion supporting TEKS. Participants will receive 1 hour of CPE and TEEAC credit.

## **Pavilion**

**1:15 - 2:30**

### **Children's Environmental Literacy Foundation Presents Big Ideas of Sustainability and an Air Beam Demonstration**

***Lisa Gianukos and Amanda Brown of CELF***

Join us in engaging small group activities and discussions on how to layer the Big Ideas of Sustainability into your classroom by focusing on Environmental Education concepts such as interdependence, cycles, long-term effects, and equilibrium.

**2:45 - 4:00**

### ***Michael Scherer, Fishing's Future and Alan Cross, Power Squadron and Americans Boating Club***

Bring your fishing license and your gear! Learn about Fishing's Future Youth Basic Angler Program and gain an overview of water safety before fishing from the pier.

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## **DIRECTIONS**

**Artist Boat launch site** directions were emailed to participants two weeks before the event. Be sure to have your printed waiver on hand. Call 409-770-0722 on day of event if you need help. We are meeting at 9:00 at Sea Star Base to carpool!

### **Texas A&M Sea Camp**

1. Take Exit IC toward Harborside Dr./Teichman Rd.
2. Turn LEFT at light onto Harborside Dr.
3. Drive 2.7 miles and turn LEFT onto Seawolf Pkwy.
4. Cross the bridge onto Pelican Island.
5. Continue through the student crosswalk.
6. Turn RIGHT at the Valero gas station onto Texas Clipper Road.
7. Continue straight on Texas Clipper Road and park in the parking lot in front of the Sea Aggie Center. All visitors must pay for visitor parking at the kiosks.
8. Walk in to the glass doors and go straight back to the back of the building and we'll see you there!
9. Call if you need help: 409-740-4525

### **Galveston Island State Park**

The park can be reached from Interstate 45 by exiting right onto 61st Street and traveling south on 61st Street to its intersection with Seawall Boulevard, and then right (west) on Seawall (FM 3005) 10 miles to the park entrance. Address: 14901 FM 3005, Galveston, TX 77554

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## Conference Evaluation: Please complete the Google Form

<https://forms.gle/ZX6Sv5V4jau9WaLp9>

### TAAE Officers and Board Members

TAAE is accepting nominations for Board volunteers. Complete the volunteer form by going to [www.taee.org](http://www.taee.org) or click on the [volunteer form](#). To contact any of these Texas EE Leaders, send an email to [info@taee.org](mailto:info@taee.org)

### Current Officers

**President, 2019-2020** – Linda Dunn, John Bunker Sands Wetland Center

**Vice President, 2019-2020** – Alicia Mein-Johnson, Citizens' Environmental Coalition of Houston

**Secretary, 2019-2020** – Robyn Gotcher, Elementary Educator, Joshua, Texas

**Treasurer, 2019 -2020** – Danna Keyburn, Redeemer Lutheran School, Austin, Texas

### Board Members, 2019-2020

**Marti Copeland** – Dallas Zoo, Director of Education

**Kiki Corry** – Texas Parks and Wildlife, Project WILD Coordinator

**Dana Keyburn** – Redeemer Lutheran School, Austin, Texas

**Melissa Paschke** – Dogwood Canyon Audubon Center, Senior Education Manager

**Kevin Wickersham** – PhD Candidate, University of Texas

**Kristi Pierce** - Water Conservation Education Coordinator, Harris-Galveston Subsidence District



38th Annual Texas Association for Environmental Education Conference

September 27 & 28, 2019

Galveston, Texas

Participant Name: \_\_\_\_\_

Total CPE Hours: \_\_\_\_\_

## Our Vision

The Texas Association for Environmental Education envisions residents who possess the knowledge, skills, attitudes and commitment to be stewards of the unique resources of Texas.

## Our Mission

The Texas Association for Environmental Education is a professional organization that supports and promotes a community of environmental educators in the state of Texas by providing content, connections, certification & communication.

TAAEE serves all regions of the Texas community by increasing the effectiveness of environmental education. TAAEE is dedicated to supporting and promoting quality environmental education opportunities by facilitating communication, coordination and professional development among the varied EE programs in the state.

During the last 30 years, TAAEE has grown and is proud to be the Texas state affiliate of [North American Association for Environmental Education \(NAAEE\)](#). TAAEE is an affiliate of [Science Teachers Association of Texas \(STAT\)](#).



CPE#902-500

