

AGENDA

2017 Gulf of Mexico B-WET Grantee Workshop

May 5th – 7th

Artist Boat
and
NOAA's Flower Garden Banks National Marine Sanctuary
Galveston, Texas

Meeting objectives:

1. To increase communication among Gulf B-WET recipients and to build camaraderie
 2. To understand Gulf of Mexico B-WET projects, various approaches to the MWEE (meaningful watershed educational experience), and solutions to challenges in implementing MWEEs
 3. To learn about regional and national initiatives, including the national B-WET evaluation and select DeepWater Horizon oil spill funding programs
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Friday, May 5, 2017

**Location: NOAA's Flower Garden Banks National Marine Sanctuary Ballroom
and Gaido's Seafood Restaurant**

See "Getting Around" document for address, directions, and parking information.

TIME	ACTIVITIES and OBJECTIVES
1:00 – 1:30 pm	<p>Welcome and Introductions <i>Stop at the check in table to sign in, get meeting materials, and turn in your completed waiver</i></p> <p><u>Objectives:</u> Participants will meet fellow grantees, learn about our meeting hosts, and understand our agenda.</p> <p>Karla Klay, Executive Director, Artist Boat</p> <p>Shelley Du Puy, Education Coordinator, NOAA's Flower Gardens Banks National Marine Sanctuary</p> <p>Amy Clark, Gulf of Mexico B-WET Coordinator, NOAA Fisheries</p>
1:30 – 3:00 pm	<p>Panel: Overview of Select Gulf of Mexico Restoration and Recovery Funding Programs and Brainstorming on Engaging Environmental Educators</p> <p><u>Pre-meeting Attachment:</u> Environmental Law Institute Gulf Restoration and Recovery Resources</p> <p><u>Objectives:</u> Participants will learn of select Gulf restoration and recovery funding programs (including the National Fish and Wildlife Foundation Gulf Environmental Benefit Fund, Natural Resource Damage Assessment Program, and Gulf Coast Restoration Funding under the RESTORE Act) and will brainstorm with panelists on how environmental education stakeholders can engage in the various processes to assist with restoration and outreach, as well as where environmental education may fit into the program processes.</p> <p>Woody Woodrow, US Fish and Wildlife Service Coastal Program <i>National Fish and Wildlife Foundation Gulf Environmental Benefit Fund</i></p> <p>Jamie Schubert, NOAA Restoration Center <i>Natural Resource Damage Assessment Program</i></p> <p>Sarah Bernhardt, Ph.D., Galveston Bay Estuary Program AND Keala Hughes, Keala Hughes, Gulf Coast Ecosystem Restoration Council <i>Gulf Coast Restoration Funding under the RESTORE Act</i></p>

TIME	ACTIVITIES and OBJECTIVES
3:00 – 3:15 pm	Break
3:15 – 4:45 pm	<p>B-WET National Evaluation: A Closer Look at Recent Results</p> <p><u>Objectives:</u> Participants will learn of the status of the B-WET National Evaluations, review results to date with highlights from the Gulf, and provide feedback on how results can be used for program improvement.</p> <p>Bronwen Rice, National B-WET Coordinator, NOAA’s Office of Education</p>
4:45 – 5:15 pm	Break
5:15 – 8:30 pm	<p>Evening Outdoor Activity, Dinner, and Keynote</p> <p><i>Gather in hotel lobby at 5:15 pm for bike ride to enjoy art, wind, sun, beaches, a great meal, and an inspiring keynote speaker!</i></p> <p>Interpretive Bike Ride with Amanda Rinehart, Education Program Manager, Artist Boat</p> <p>We will enjoy a relaxing bike ride down Galveston’s historic Seawall. During the ride we will take in the sights and sounds of the Gulf of Mexico and view a portion of Project SIT (Seawall Interpretive Trail). You will view hand-painted ceramic tiled benches interpreting natural processes on the Gulf of Mexico. Artist Boat has beautified 70 large cement benches on the Galveston Seawall to create a walking, biking, and strolling learning experience filled with art. Benches creatively interpret how tides work, what are neo tropic migrants, sea level rise, the zones of the oceans, and even more. Our ride will end at Gaido’s Seafood Restaurant where we will have dinner and hear exciting keynote presentation.</p> <p>Dinner- PROVIDED</p> <p>Gaido’s Seafood Restaurant</p> <p>Keynote</p> <p>Stuart Carlton, Ph.D., Healthy Coastal Ecosystems and Social Science Specialist, Texas Sea Grant</p> <p>Presentation Title: “Communicating the Controversy: Hard Topics in Challenging Times” Climate change and other environmental controversies can be a challenge to talk about in educational settings. Why is this? Why do people seem to devolve into arguing past each other when discussing environmental controversies? In this talk, Dr. Stuart Carlton will discuss some of the cognitive factors that influence peoples' beliefs about environmental controversies and what those beliefs mean for teaching learners of all ages.</p>
8:30 pm	Adjourn

Saturday, May 6, 2017

Location: Coastal Heritage Preserve and Flower Garden Banks National Marine Sanctuary Ballroom
See "Getting Around" document for address, directions, and parking information.

TIME	ACTIVITIES and OBJECTIVES
8 - 8:30 am	<p>Travel to Coastal Nature Preserve <i>Meet in the hotel lobby at 8 am for carpooling to the Preserve</i></p>
8:30 – 11:30 am	<p>Illustrating the MWEE with Hands-on, Outdoor Activities at the Coastal Nature Preserve</p> <p><u>Description:</u> Join us at the newly formed 600 acre Coastal Heritage Preserve to experience an Eco-Art Adventure via kayak with a special emphasis on blue carbon and GLOBE data collection tools. This adventure literally immerses the learner in estuarine ecology. We will use scientific tools to test water quality and allow reflection time to create a plein-air water color while in the marsh. The Eco-Art Kayak Adventure targets several of the MWEE components including: issue definition and background research, outdoor field activities, synthesis and conclusion, teacher participation, use of local context for learning, experiencing a set of activities over time, and including NOAA assets in education.</p> <p>Amanda Rinehart, Education Program Manager, Artist Boat</p>
11:30 am – 12 pm	<p>Working Lunch at Coastal Nature Preserve - PROVIDED</p> <p>NOAA Restoration Investments in Galveston Island</p> <p><u>Objectives:</u> Participants will learn of the contributions NOAA has made toward conserving and restoring Galveston Island.</p> <p>Kristopher Benson, NOAA Restoration Center</p>
12 – 1:30 pm	<p>Travel back to hotel and regroup</p>
1:30 – 2 pm	<p>Update on the NOAA-21st Century Community Learning Center Watershed STEM Education Partnership Grants <i>Gather in the Sanctuary Ballroom at 1:30 pm for the rest of the day</i></p> <p><u>Pre-meeting Attachment:</u> NOAA-21stCCLC announcement</p> <p><u>Objectives:</u> Participants will learn of the status of this pilot and will hear an overview of the projects selected for funding</p> <p>Bronwen Rice, NOAA Office of Education Amanda Rinehart, Artist Boat Kelsey Johnson, Gulf Coast Design Studio, Mississippi State University</p>

TIME	ACTIVITIES and OBJECTIVES								
2 – 3:45 pm	<p>Solutions to Challenges from Gulf B-WET Grantees (Breakout #1)</p> <p><u>Objective:</u> In small groups, participants will learn of Gulf of Mexico B-WET projects, understand various approaches grantees take to implement the MWEE (meaningful watershed educational experience), and share about challenges and solutions to implementing MWEEs</p> <p><u>Pre-meeting Attachment:</u> Project Summaries and MWEE Definition</p> <p>Three, 30-minute break-out group rotations:</p> <table border="1" data-bbox="394 667 1321 842"> <thead> <tr> <th>Presenter</th> <th>Affiliation</th> </tr> </thead> <tbody> <tr> <td>Gary Kratzer, Caroline Hennigan, Lori McGee</td> <td>McNeese State University (LA)</td> </tr> <tr> <td>Teresa LeSage Clements</td> <td>University of Houston-Victoria</td> </tr> <tr> <td>Venise Ortego</td> <td>Louisiana Department of Wildlife and Fisheries</td> </tr> </tbody> </table>	Presenter	Affiliation	Gary Kratzer, Caroline Hennigan, Lori McGee	McNeese State University (LA)	Teresa LeSage Clements	University of Houston-Victoria	Venise Ortego	Louisiana Department of Wildlife and Fisheries
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3:45 – 4 pm	Break								
4 – 5:30 pm	<p>Solutions to Challenges from Gulf B-WET Grantees (Breakout #2)</p> <p>Three, 30-minute break-out group rotations:</p> <table border="1" data-bbox="394 1094 1321 1297"> <thead> <tr> <th>Presenters</th> <th>Affiliations</th> </tr> </thead> <tbody> <tr> <td>Dinah Maygarden</td> <td>University of New Orleans</td> </tr> <tr> <td>Lisa Wooley</td> <td>Clear Creek Independent School District (TX)</td> </tr> <tr> <td>Michael Zinser</td> <td>Florida State University Panama City</td> </tr> </tbody> </table>	Presenters	Affiliations	Dinah Maygarden	University of New Orleans	Lisa Wooley	Clear Creek Independent School District (TX)	Michael Zinser	Florida State University Panama City
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5:30 pm	Adjourn								
6:30 pm	<p>Dinner- PROVIDED</p> <p>Shrimp boil at Artist Boat Executive Director Karla Klay's home</p> <p>Join us for dinner at Artist Boat Executive Director, Karla Klay's home. We will enjoy local shrimp donated by Captain Buddy of Katie's Seafood (who was featured on a National Geo reality TV show).</p>								

Sunday, May 7, 2017

Location: Flower Garden Banks National Marine Sanctuary Ballroom

See "Getting Around" document for address, directions, and parking information.

TIME	ACTIVITIES and OBJECTIVES
8:30 – 8:45 am	<p>Overview of Day 3 <i>Gather in the Sanctuary Ballroom for Sunday's activities</i></p> <p>Amy Clark, NOAA Fisheries</p>
8:45 – 9:45 am	<p>Flower Garden Banks National Marine Sanctuary Hands-on Activity Demonstrations</p> <p><u>Objectives:</u> Participants will experience, and learn from, educational activities the Flower Garden Banks National Marine Sanctuary conducts with local students.</p> <p>Shelley Du Puy, Education Coordinator, NOAA Flower Garden Banks National Marine Sanctuary</p> <p><u>Activity Demonstration Descriptions:</u></p> <ul style="list-style-type: none"> • <u>Coral Up Close</u> (grades 3-12) Students explore the anatomy of a coral polyp and how it fits into a colony by modeling coral polyps using their hands. Lesson includes a simulation of coral feeding techniques. • <u>Reef Monitoring</u> (grades 6-12) A 5E curriculum that teaches students about the challenges of reef monitoring and tests their observation skills. Students examine actual reef monitoring images for changes over time in a reef habitat. • <u>Coral Cores: Ocean Timelines</u> (grades 6-12) Students discover how corals create their calcium carbonate skeletons and what those layers of growth can tell us. Lesson Includes x-ray images of actual coral cores taken from the sanctuary. • <u>Coral Spawning Globe</u> (grades 3-8) Students learn about coral reproduction and model mass coral spawning on the reef by building a snow globe.
9:45 – 10 am	Break

TIME	ACTIVITIES and OBJECTIVES
10 – 11:30 am	<p>Blue Carbon Lesson, Painting, and MWEE Demonstrations</p> <p><u>Description:</u> This activity is the culmination of the STEAM Powered Blue Carbon Art IQ program. Participants learn about and create their own conceptual art piece to communicate concepts such as blue carbon, wetland function and the impacts of natural, industrial, and human actions. The activity targets several of the MWEE components including issue definition and background research, synthesis and conclusion, teacher participation, use of local context for learning, experiences set of activities over time, and includes NOAA assets. Teaching art has a multitude of positive effects including higher proficiency in core subject areas, increases long-term retention by providing an emotional ‘hook’, and may close the achievement gap in students who qualify for federal meal benefits.</p> <p>Kaitlin Morgan & Amanda Rinehart, Artist Boat</p>
11:30 am – 12 pm	<p>Closing and Adjourn</p> <p><u>Objectives:</u> Participants will hear a recap of workshop activities, document follow up activities, and provide feedback on utility of workshop and ways to improve.</p> <p>Amy Clark, NOAA Fisheries</p>
12:00 pm	Lunch on your own