

CONFERENCE AGENDA

Friday, 19 March

- 10:00 - 4:00 Ocean Exploration Workshop - **Smax**
- 4:00 - 7:00 Registration - **Front Office**
- 2:00 - 6:00 Field Trips (Meet at **Smax** for 2:00 departure)
- 6:00 - 6:30 "Welcome New Friends" reception for first-timers and new members - **Smax Conference Room**
- 6:00 - 7:00 Wine & Cheese Reception, Posters - **Smax**
- 7:00 - 8:00 Dinner - **Gayle's**
- 8:00 - 9:00 Welcome/Keynote: Chris Marsh of the Low Country Institute - **Gayle's**
- 9:30 - until Stargazing, raccoon encounters, marsh viewing, etc.

Saturday, 20 March

- 7:00 - 8:00 Breakfast - **Smax**
- 8:00 - 10:00 Registration - **Gayle's**
- 8:00 - 12:00 Exhibits - **Gayle's**
- 8:30 - 11:45 Concurrent Sessions
- 12:00 - 2:00 Lunch/Business Meeting - **Gayle's**
- 2:30 - 6:00 Field Trips (Meet at **Smax** for 3:00 departure)
- 6:30 - 7:30 Oyster Roast
- 7:30 - 9:00 Marine Meringue & Auction - **Gayle's**
- 9:00 - 12:00 DJ and Dance - **Gayle's**

Sunday, March 21

- 8:00 - 9:00 Coffee - **Smax**
- 9:00 - 10:45 Concurrent Sessions
- 11:00 - 12:30 Brunch/Awards/Auction Card Finalists - **Gayle's**

CONCURRENT SESSIONS SCHEDULE

(E=Elementary to Middle, S=Secondary, C=College, G=General, A=All)

Saturday, 20 March

SESSION I 8:30 - 9:45

- **Windows to the Deep (A) - Smax Main**
Margaret M. Olsen, SECOSEE Education Specialist, UGA Marine Education Center and Aquarium
Margaret Olsen will share her experiences onboard the R/V *Atlantis* during the NOAA Ocean Exploration Research Cruise "Windows to the Deep". You will see a slide show of the DSV *Alvin* as it explores the ocean floor in search of methane seeps. You will see giant mussels, clams, and mud that *Alvin* brought back from the sea floor from depths of 2800 to 3600 m. You will also take part in three hands-on activities that explain how scientists explore the ocean floor. You will also be given information on how you can take part in at "At Sea" experience.
- **An Introduction to Navigation (A) - Smax Conference**
Julie Cliff, Wando High School; Sue Morrison
If you were lost, could you find your location on a coastal chart? Come learn some basic navigation techniques.
- **Crabitat (A) - Gayle's Upstairs**
Harold E. Oberg, Ph.D., Professor, Armstrong Atlantic State University
"Crabitat" is back in a revised form. The field-to-classroom interactive exhibit returns for Spring 2004 with a refreshed supply of ideas.
- **Marsh Habitats of South Carolina, Using SC MAPS and SC LIFE (E,S) - Cottage 31**

Tom Darby, Clemson University

Come discover South Carolina's salt marsh habitats, using SC MAPS and SC LIFE.

SESSION II 10:00 - 10:45

- **Promoting Diversity in the Ocean Sciences (A) - Smax Main**
Jennifer Jolly Clair, College of Charleston, SECOSEE Curriculum Specialist and COASTeam Program Manager; Margaret Olsen; Lundie Spence; Carrie Thomas
Research shows that there is a lack of African Americans, Hispanic Americans and Native Americans in the ocean sciences and the higher education pipeline. The SouthEast Center for Ocean Sciences Education Excellence (SouthEast COSEE) hosted a design workshop to identify successful strategies for increasing the number of ocean sciences professionals from traditionally underrepresented groups. The results will be reported in this session and participants will be given the opportunity to share their successful strategies.
- **NMEA - Not Just Another Acronym (A) - Smax Conference**
Carmelina Livingston, South Carolina Aquarium
The National Marine Educators Association (NMEA) offers more than just a summer conference and informative marine education journal. Come and find out from a NMEA Chapter Representative how you can get more for your buck when you join NMEA. Win a NMEA door prize!
- **Charleston Explorers' Student Oyster Research Project (A) - Gayle's Upstairs**
Keith S. Grybowski, Director, Charleston Explorers
This is an interactive multimedia program that demonstrates the latest in electron microscope technology as used in the student oyster research project at Patriots Point Naval and Maritime Museum (Mt. Pleasant) and as part of Charleston Explorers' mobile classroom program.
- **Non-toxic and Natural Cleaners for Home or School (A) - Cottage 31**
Mark Madden, Interpretive Programs & Caw Caw Interpretive Center Manager
How many toxic chemicals do you voluntarily bring into your home or school? Take away recipes for alternatives with tremendous environmental benefits, reduced costs, ease of use, and peace of mind.

SESSION III 11:00 - 11:45

- **COASTeam: Where Are We Going? (A) – Smax Main**
Jennifer Jolly Clair, COASTeam Program Manager & Southeast COSEE Curriculum Specialist, College of Charleston; Rachel McEvers
The COASTeam Program has been funded by the SC Sea Grant Consortium for 10 years and has received funding for two more! If you're interested in integrating more marine concepts into your existing curriculum, then come learn about the recently-completed COASTeam Aquatic Workshops and the plans for a new SouthEast Marine Science Curriculum for middle school students!
- **Tangible Trivia With the South Carolina Aquarium (A) - Smax Conference**
Carmelina Livingston, South Carolina Aquarium
Come have some fun! Learn how you can take ocean trivia and transform it into a hands-on, minds-on inquiry activity. Participants will be challenged to translate or communicate information into something that is concrete and tangible by using various materials.
- **How to Have Fun With Marine Sediment (S) - Gayle's Upstairs**
Leslie Sautter, Director, Project Oceanica, College of Charleston; Rachel McEvers
You will be lead through an activity which will teach your students how to separate sediment into size-based components, calculate their percentages, and plot them on a ternary graph. You will also participate in a brand-new activity, using the sediments collected from the Charleston Bump and Savannah Scarp using the *Johnson Sea Link* submersible!

- **Using Charismatic Antarctic Fauna (Whales, Seals, etc.) to Demonstrate Some Basic Ecological Principles (A) - Cottage 31**

Steve Berkowitz, Senior Instructor of Marine Science, Coastal Carolina University

How do nutrients and the sun's energy go from microscopic phytoplankton all the way up to seals and whales, and how much is lost along the way? You can use some relatively simple Antarctic food chains to show how this energy transfer works.

Sunday, 21 March

SESSION I 9:00 - 9:45

- **Inquiry-Based Learning in the Science Classroom: Discovering Continental Shelf-Edge Reefs Using Web-Based Video Investigations (E,S,C) - Smax Main**
Paul Korchari, Project Oceanica, College of Charleston
Inquiry-based learning prepares students for careers in science. Do you use it? See a marine web-based inquiry video investigation, useful for all levels.
- **What's Hot and What's Snot: Climate Change in the Rocky Intertidal Zone (A) - Smax Conference**
Brian Helmuth, University of South Carolina; Denise Strickland
Infrared thermography is a high-tech means of "seeing" temperatures in nature. Explore infrared imaging with a hands-on demonstration and materials for use in the classroom.
- **The Transects Program: Pathways to Ocean Research Using a Collaborative Team Approach (S,C) - Gayle's Main**
Leslie Sautter, Director, Project Oceanica, College of Charleston; and Gorka Sancho, College of Charleston; Rachel McEvers; Dewey Golub
The Transects Program is designed to immerse and engage undergraduate and graduate students in oceanographic research by taking them to sea for five days to collect biological and geological samples and later analyze the data in the laboratory. Come hear about the successful first leg and plans for the future of this exciting new program!
- **NOAA Community-Based Restoration Programs (G) – Gayle's Upstairs**
Howard Schnabolk, NOAA Restoration Center
This information session will describe potential grant opportunities available from the NOAA Restoration Center, to support marine restoration and education programs. The presentation will describe funding priorities and provide examples of previous and potential projects, and will solicit proposals from conference attendees.

SESSION II 10:00 - 10:45

- **Journey of the Loggerhead: An Interactive DVD on Marine Turtles (A) - Smax Main**
Katy Garland, Director of Science Education, Environmental Media Corporation
Gain a greater appreciation for the loggerhead sea turtle, an ancient marine reptile, and help build an understanding of the connections between humans and marine turtles.
- **Using the Environment to Improve Middle School Students' Achievement and Behavior--An Update (S, G) - Smax Conference**
Ed Falco, State Department of Education
Hear exciting results from ten SC middle schools, representing the Lowcountry to the Upstate, that are using environmental education, a service-learning component, and environmental community partnerships, to improve overall student achievement and behavior and teacher instructional strategies and confidence.

- **Taxonomy of the Charleston Bump (A) – Gayle’s Upstairs**

Connie Leverett, Burke High School

Join me as I share highlights of the Charleston Bump Expedition as seen through the eyes of the Educator at Sea. Take a look at all the organisms that may remind you of Byzantine art. The first ten participants will get a CD of a taxonomy activity.

- **Flippers, Fins and Salinity (A) – Cottage 31**

Rob Young, Coastal Carolina University; Nelle Stephenson

Changes in salinity make a big difference to the distribution of dolphins and fish in the North Inlet salt marsh. This talk is half research presentation and half Rising Tide Project educational activity that you can use in your high school classroom.