



# AUTUMN MEETING PROGRAM

## October 27-29, 1994 - Wilmington, North Carolina

### General Program

Thursday	October 27	1800-2200	Registration (Coastline Inn)
		1900-2200	Poster Session and Social (Conv. Center)
		2000	SEERS Board Meeting
Friday	October 28	0800-0930	Registration and Information (Coastline Inn)
		0800-0820	Welcome and Announcements (Conv. Center)
		0820-1000	Paper Session I
		1020-1200	Paper Session II
		1200-1320	Lunch
		1320-1500	Paper Session III
		1520-1640	Paper Session IV
		1700	Business Meeting, Awards and Etc.
1800	Dinner (Conv. Center)		
Saturday	October 29	0900-1140	Wetland Restoration Symposium
		0900-1020	Paper Session I
		1040-1140	Discussion Session I
		1140	Closing Comments

### Meeting Announcements

The registration fee is \$35 for regular members and \$25 for students and includes socials, breaks, and dinner.

Paper and poster abstracts will be available at the registration table.

*All oral papers will be limited to 15 minutes with 5 minutes for questions. Please prepare your talk so that you do not run over the allotted time*

### Other Notes of Interest

Many thanks to **Mary Moser** and **Mike Mallin**, Local Arrangement Chairpersons, for all their hard work in organizing the autumn meeting!

SEERS gratefully acknowledges HYDROLAB for their continued financial support.

The Patrick Adams Award for the best student oral presentation and an award for the best poster will be conferred during the business meeting.

## NOTICES

Upcoming Meetings: 22nd Annual Conference on Ecosystems Restoration and Creation; May 18-19, 1995; Sheraton Grand Hotel, Tampa, FL; Abstracts due February 1, 1995; for more information contact Frederick Webb, Hillsborough Community College, Plant City Campus, 1206 N. Park Road, Plant City, FL 33566, (813) 757-2104.

## DIRECTIONS TO THE SEERS 1994 AUTUMN MEETING

From Airport: Turn left onto 23rd St. out of airport; follow to the intersection w/ Market St. and turn right; follow to the intersection w/ 3rd St. and turn right; follow to Red Cross St. and turn left; turn right at the bottom of the hill (sign for Convention Center).

From Int. 40: Take exit 17S (Market St.); follow to intersection w/ 3rd St. and turn right; follow to Red Cross St. and turn left; turn right at the bottom of the hill (sign for Convention Center).

From Hwy. 17: Go over Cape Fear River bridge; turn left at first stoplight after bridge (3rd St.); follow to Red Cross St. and turn left; turn right at the bottom of the hill (sign for Convention Center).

## SEERS OFFICERS

**PRESIDENT:** Ed Caine, Department of Biology, University of South Carolina at Beaufort, Beaufort, SC 29902 (803) 521-4160.

**PRESIDENT-ELECT:** Richard Dame, Division of Environmental Biology, National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230 (703) 306-1483.

**SECRETARY-TREASURER:** Patrick Pitts, Harbor Branch Oceanographic Institution, US 1 North, Fort Pierce, FL 34946 (407) 465-2400.

**PROGRAM CHAIR:** Keith Walters, Marine Institute, University of Georgia, Sapelo Island, GA 31327 (912) 485-2289.

**MEMBER-AT-LARGE:** Frank Nordlee, Department of Zoology, University of Florida, Gainesville, FL 32611 (904) 392-1107.

**STUDENT REPRESENTATIVE:** Open

**PAST-PRESIDENT:** Clay Montague, Department of Environmental Engineering Science, University of Florida, Gainesville, FL 32611 (904) 392-6222.

THURSDAY EVENING POSTER SESSION  
(1800 - 2100)

(Held at the Coastline Convention Center next to the Coastline Inn)

**Energy systems overview of a coastal county, Martin Co., Florida.** Montague, C., Odum, H. T., Engel, V. C., Kent, R., and Shaps, M. Department of Environmental Engineering, University of Florida, Gainesville, FL.

**Enhanced biodegradation of diesel fuel in enclosed marine waters.** Piehler, M. F. and Paerl, H. W., Institute of Marine Sciences, UNC - Chapel Hill, Morehead City, NC.

**Role of heterotrophs in marine microbial mat nitrogen fixation potentials.** Olson, J. B. and Paerl, H. W., Institute of Marine Sciences, UNC - Chapel Hill, Morehead City, NC.

**Incorporation of calcium into the regenerating spines of the sea urchin *Lytechinus variegatus*.** Phelps, E. I., Clements, L-A. J., Eder, S. L., Department of Biology and Marine Science, Jacksonville University, Jacksonville, FL.

**Seasonal patterns of denitrification in a natural and a restored salt marsh.** Thompson, S. P. and Paerl, H. W., Institute of Marine Sciences, UNC - Chapel Hill, Morehead City, NC.

(A complete listing of all poster titles including those received by the 23 October deadline along with all abstracts will be available at registration.)

FRIDAY MORNING-PAPER SESSION I

Session Chair: Clay Montague

0800 Welcome and Announcements

0820 The effects of turbulence on structural and physiological conditions of pelagic microalgae.  
\*Kucera, S. A., Institute of Marine Sciences, UNC - Chapel Hill, Morehead City, NC.

0840 The seasonal <sup>15</sup>N signal of zooplankton at Beaufort Inlet, NC. \*Shores, J. W., Fogel, M., and Paerl, H. W., Institute of Marine Sciences, UNC - Chapel Hill, Morehead City, NC.

0900 Seasonal variation in macrobenthic metrics for evaluation of pollution impacts within the Indian River Lagoon, FL. \*Spoon, F. D. and Nelson, W. G., Division of Marine and Environmental Systems, Florida Institute of Technology, Melbourne, FL.

0920 Dissolved organic nitrogen in atmospheric decomposition: new nitrogen for coastal ecosystems?  
\*Peierls, B. and Paerl, H. W., Institute of Marine Sciences, UNC - Chapel Hill, Morehead City, NC.

0940 Refuge preference of grass shrimp (*Palaemonetes pugio*). Alphin, T. and Posey, M., Department of Biology, UNC Wilmington, Wilmington, NC.

1000 COFFEE BREAK

## FRIDAY MORNING PAPER SESSION II

Session Chair: Ed Caine

- 1020 **Seasonal responses of the mixed function oxygenase system in the American oyster, *Crassostrea virginica*, to urban derived polycyclic aromatic hydrocarbons.** Weinstein, J., Baruch Institute, University of South Carolina, Columbia, SC.
- 1040 **Flow patterns in Florida Bay - part II: an overview of recently collected current meter data.** Pitts, P. A., Harbor Branch Oceanographic Institution, 5600 US 1 North, Ft. Pierce, FL.
- 1100 **The effects of dredging for beach nourishment in an estuarine borrow site.** Martore, <sup>BOB</sup>R. M., Levisen, M. V., and VanDolah, R., South Carolina Marine Resources Research Institute, 217 Ft. Johnson Rd, Charleston, SC.
- 1120 **Sediment stabilization of created marshes through the addition of an oyster cultch fringe.** Townsend, E. C., Meyer, D. L., and Thayer, G. W., National Marine Fisheries Service, Beaufort Lab, Beaufort, NC.
- 1140 **Estuarine landscapes and the production of living marine resources.** Irlandi, E. A., NOAA, NMFS, SEFSC, Beaufort Lab, Beaufort, NC.
- 1200 **LUNCH**

## FRIDAY AFTERNOON PAPER SESSION III

Session Chair: Dennis Allen

- 1320 **The role of seagrass bedforms on densities of finfish.** Murphey, P. and Thayer, G., National Marine Fisheries Service, Beaufort Lab, Beaufort, NC.
- 1340 **Biology and status of spotted seatrout, *Cynoscion nebulosus*, in South Carolina.** Wenner, C., Zhao, B., and Roumillat, W. A., Marine Resources Research Institute, South Carolina Department of Natural Resources, Charleston, SC.
- 1400 **Spectral characteristics of the Neuse River Estuary, NC.** Woodruff, <sup>DANA</sup>D., Scope, J., and Paerl, H., National Marine Fisheries Service, Beaufort Lab, Beaufort, NC.
- 1420 **Evaluating respiration vs. irradiance responses of phytoplankton clones: implications for cellular energy balance in turbid, organic-rich estuaries.** Lewitus, A. J. and Kana, <sup>ORIS</sup>T. M., Baruch Marine Field Lab, University of South Carolina, Georgetown, SC and Horn Point Environmental Laboratory, University of Maryland, Cambridge, MD.
- 1440 **Nitrogen biomass of benthic microalgae versus other primary producers in North Carolina estuarine ecosystems.** Cahoon, <sup>LARRY</sup>L. B., Nearhoof, J. E., Department of Biology, UNC Wilmington, Wilmington, NC. and Freeman, D. B., Carolina Cultured Shellfish, P.O. Box 298, Harkers Island, NC.
- 1500 **BREAK**

FRIDAY AFTERNOON PAPER SESSION IV

Session Chair: Mike Mallin

- 1520 **A comparison of benthic chlorophyll a, harpacticoid copepods, and sediment carbon in three anthropogenically polluted estuarine tidal creeks in Southeastern North Carolina.** McIver, M., Center for Marine Research, UNC Wilmington, Wilmington, NC.
- 1540 **Diel grazing by *Acartia tonsa* (Copepoda: Calanoida): naupiii, copepodites, and adults.** Mallin, M., Center for Marine Research, UNC Wilmington, Wilmington, NC.
- 1600 **Sexual dimorphism; insights from caprellid amphipods.** Caine, E., Department of Biology, USC Beaufort, Beaufort, SC.
- 1620 **Dynamics of marine fauna living on *Spartina alterniflora* stems: effects of predation and dispersal.** Etherington, L. and Walters, K., Marine Institute, University of Georgia, Sapelo Island, GA.
- 1640 **Open**
- 1700 **BUSINESS MEETING:** Awards and More!
- 1800 **CATFISH DINNER**

SATURDAY MORNING WETLANDS RESTORATION SYMPOSIUM

Session Chair: Keith Walters

- 0900 **Restoration and creation of tidal marshes.** Broome, S., <sup>TRIVE</sup>Department of Soil Science, North Carolina State University, Raleigh, NC.
- 0920 **Development of soil and biogeochemical processes in created and restored coastal marshes.** Craft, C., <sup>cyes</sup>School of the Environment, Duke University, Durham, NC.
- 0940 **Recovery of two South Carolina salt marshes following pipeline construction.** Knott, D., Wenner, E., and Wendt, P., Marine Resources Research Institute, South Carolina Department of Natural Resources, Charleston, SC.
- 1000 **Functional equivalency between natural and restored marshes: are phytofauna the critical missing link?** Walters, K., Marine Institute, University of Georgia, Sapelo Island, GA.
- 1020 **BREAK** *NEED TO ASSESS FUNCTIONAL EQUIVALENCY*

SATURDAY MORNING WETLANDS RESTORATION SYMPOSIUM

Session Chair: Stephen Broome

- 1040 **Discussion Session:** What has been learned? What needs further study? Are there identifiable future directions in the study of wetland restoration?
- 1140 **Closing Comments**