



# SPRING MEETING PROGRAM

## March 30 - April 1, 1995 - Marineland, FL

### General Program

Thursday	March 30	1800-2200	Registration (Marine Ed. Center)
		1900-2200	Poster Session and Social (Marine Ed. Center)
		2000	SEERS Board Meeting (TBA)
Friday	March 31	0840-1000	Registration and Information (Mar. Ed. Center)
		0840-0900	Welcome and Announcements (Mar. Ed. Center)
		0900-1000	Paper Session I
		1020-1200	Paper Session II
		1200-1320	Lunch
		1320-1440	Paper Session III
		1500-1600	Paper Session IV
		1600-1700	Discussion Session
		1700	Business Meeting, Awards and Etc.
1800	Dinner (Marine Education Center)		
Saturday	April 1	0900-1200	Open

### Meeting Announcements

The registration fee is \$30 for regular members and \$25 for students and includes socials, breaks, and dinner. All papers and functions will take place at the Marineland Marine Education Center.

Paper and poster abstracts will be available at the registration table. Properly identified baskets and floppies from authors submitting abstracts also 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 **Clay Montague**, Local Arrangement Chairperson, for all his (and his student's) hard work in organizing the spring 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

The following are biogeographical sketches of the candidates for Secretary/Treasurer:

**Evan Chiporus, Ph. D. University of Florida, 1992.** I received both my BS and MS from the University of Georgia and was introduced to SEERS in 1989 by Frank Mauro while working towards a PhD at the University of Florida. My research focuses on the physiological ecology of estuarine-dependent fishes, specifically the impact of salinity variation on development. I have been a regular participant and presenter at both SEERS and ERF meetings and am the past recipient of the SEERS Patrick Adams Award and the ERF Best Student Paper Award. After receiving my PhD I accepted a sabbatical-replacement postdoctoral position with the Zoology Department at UF. While there I collaborated with Michael Miyamoto on a biomathematical modeling project looking at the expected relationships between physio-morphological characters and spatial and temporal salinity distributions. My current pursuits include applying my past approach to the investigation of other physical and biological factors that may influence the successful development of coastal fishes and to become more involved in the application of these findings to management issues.

**Mary L. Moser, Ph.D. North Carolina State University, 1987.** I have been a regular SEERS member for over 10 years and as a graduate student I served as student representative to the Society during two consecutive terms. My research interests have focused on the physiological ecology of fishes. I am particularly interested in how estuarine and anadromous fishes have used cope with rapidly changing abiotic conditions. To this end I have used sonic telemetry to document the abiotic environment these fishes actually encounter and respirometry techniques to determine the relative energetic costs of activity in various salinity and current regimes. Recently, I have conducted related studies of migration behavior, orientation mechanisms, and microhabitat use by anadromous fishes in the Cape Fear River estuary, NC. I currently teach at the University of North Carolina at Wilmington and coordinate a cooperative UNCW/NCSU Ph.D. program. I am very concerned with problems of water quality degradation in southeastern coastal rivers and estuaries and have worked as a technical advisor to two documentaries to raise public awareness of these problems.

## DIRECTIONS TO THE SEERS 1995 SPRING MEETING

From the North: Take I-95 South until you reach the State Road 206 exit to Crescent Beach. Head East until A1A, then South until Marineland.

From the South: Take I-95 North until you reach th State Road 100 exit to Flagler Beach. Head East until A1A, then North until Marineland.

The Quality Inn is located South of the Marineland entrance on the ocean side of A1A. The Marine Education Center meeting facilities are located inside the Marineland main entrance behind the bus parking lot.

**THURSDAY EVENING POSTER SESSION  
(1900 - 2200)**

**(Held at the Marine Education Center)**

- A predator-prey model describing the dynamics between algae, rotifers, and larval marine fish.** Crowley, J. C., Department of Mathematics, University of Florida, Gainesville, FL.
- Permanent transects as a tool for monitoring seagrass in the Indian River Lagoon, FL.** Morris, L. J., Virmstein, R. W., and Scafidi, L. A., St. Johns River Water Management District, Palatka, FL.
- Hydroid species from Florida.** Perkins, T.,
- Importance of competition and edaphic factors in the distribution and vigor of *Batis maritima*.** Richards, C. L. and Pennings, S. C., Marine Institute, University of Georgia, Sapelo Island, GA.

**FRIDAY MORNING-PAPER SESSION I  
Session Chair: Richard Dame**

- 0840 Welcome and Announcements**
- 0900 Patterns of immune response to environmental bacteria in natural populations of the red drum, *Sciaenops ocellatus*.** Burnett, K. G., Evans, M. R., Larsen, S-J., and Riekerk, G. H. M., MBES, MUSC, 221 Ft. Johnson Rd., Charleston, SC.
- 0920 \*Food habits of the red grouper, *Epinephelus morio*, from Florida's Big Bend region.** Kiel, B. L., Department of Zoology, University of Florida, Gainesville, FL.
- 0940 The influence of circulation on the distribution of the juvenile queen conch (*Strombus gigas*).** Pitts, P. A., Harbor Branch Oceanographic Institution, 5600 North US 1, Ft. Pierce, FL.
- 1000 COFFEE BREAK**

**FRIDAY MORNING PAPER SESSION II  
Session Chair: Steve Pennings**

- 1020 Patterns of fish abundance in patchy and continuous seagrass beds.** Murphey, P. L. and Thayer, G. L., NMFS, 101 Pivers Island Rd., Beaufort, NC.
- 1040 \*Spatial distribution patterns between the West Indian manatee, *Trichachus manatus* (Linnaeus), and watercraft within Brevard Co., FL.** Scafidi, L. A., Florida Inst. of Technology, Division of Marine & Environmental Systems, Melbourne, FL.
- 1100 Can young fish exploit the salinity heterogeneity found in estuarine systems as an alternative to physiological regulation in achieving sal and water balance?** Chipouras, E., Department of Zoology, University of Florida, Gainesville, FL.

\* Student

- 1120 **\*Implimentation of the minimum effect release rate field bioassay to evaluate antifouling compounds.** Kavanagh, C., Florida Institute of Technology, Division of Marine & Environmental Systems, Melbourne, FL.
- 1140 **The Long Key Channel salt transport study.** Smith, N. P., Harbor Branch Oceanographic Institution, 5600 North US 1, Ft. Pierce, FL.

1200 **LUNCH**

### **FRIDAY AFTERNOON PAPER SESSION III**

**Session Chair: Evan Chipouras**

- 1320 **Effects of *Perkinsus marinus* and air exposure on adductor muscle glycogen stores and hemolymph acid-base status in oysters.** Burnett, L. E., Dwyer, J. J., Austin, K., and Choi, S., Grice Marine Biological Lab, University of Charleston, Charleston, SC.
- 1340 **Histopathology of *Crassostrea virginica* as an indicator of stress in urbanized estuaries.** Weinstein, J. E., Baruch Institute, University of South Carolina, Columbia, SC.
- 1400 **Seasonality in top-down vs. bottom-up control of bacterial and phytoplankton production in North Inlet Estuary.** Lewitus, A. J. and Keopfler, E. T., Baruch Marine Field Lab, USC, Georgetown, SC and Coastal Carolina University, Conway, SC.
- 1420 **The seagrass preservation and restoration plan in the Indian River Lagoon.** Morris, L. J. and Vornstein, R. W., St. Johns River Water Management District, P. O. Box 1429, Palatka, FL.
- 1440 **BREAK**

### **FRIDAY AFTERNOON PAPER SESSION IV**

**Session Chair: Keith Walters**

- 1500 **Impact of a native parasitic plant on salt marsh vegetation structure and dynamics.** Pennings, S. C. and Callaway, R. M., University of Georgia Marine Institute, Sapelo Island, GA and Department of Biology, University of Montana, Missoula, MT.
- 1520 **Restoring the Kooragang Island Wetlands, New South Wales, Australia.** Streever, W. J., Dept. of Environmental Engineering, University of Florida, Gainesville, FL.
- 1540 **Ecosystem research in the US: The search for fundamental knowledge and its application.** Dame, R., Department of Marine Science, USC Coastal Carolina College, Conway, SC.
- 1600 **Discussion Session**
- 1700 **BUSINESS MEETING:** Awards and More!
- 1800 **FISH DINNER**