



SOUTHEASTERN ESTUARINE RESEARCH SOCIETY

FALL MEETING OF THE SOUTHEASTERN ESTUARINE RESEARCH SOCIETY

October 27-29, 1988 The Jacksonville Hotel on the Riverwalk
Jacksonville, Florida

GENERAL PROGRAM

Thursday, October 27

- 5:00 - 9:00 p.m. Registration and Information
- 7:00 - 10:00 p.m. Poster Session and Social
- 7:30 - 10:00 p.m. Executive Committee Meeting

Friday, October 28

- 8:30 - 10:00 a.m. Registration and Information
- 8:25 - 11:50 a.m. Slide Session I
- 11:50 - 1:30 Lunch
- 1:30 - 2:45 p.m. Biotechnology in Marine Research
- 3:15 - 4:55 p.m. Slide Session II
- 6:00 - 7:00 p.m. Social Hour
- 7:00 - 9:00 p.m. Banquet and Business Meeting

Saturday, October 29

- 8:45 - 11:30 a.m. Slide Session III

Announcements

Registration- All attendees will be required to register. Registration (\$25.00) includes the banquet, coffee breaks and socials.

Titles for posters will be accepted until Thursday, October 28. If you will call the title to Linda Clements (919-728-8737 or 919-728-3595) by October 24, we will add it to an updated list of posters to be distributed at registration

HOW TO GET TO THE JACKSONVILLE HOTEL ON THE RIVERWALK

From SOUTH ON I-95:

Exit to RIGHT at Prudential Exit (on sign says last exit before toll bridge - exit immediately to right)

Go straight about 4 blocks. The hotel is at the foot of Main Street Bridge (if you are on bridge, you have gone too far).

FROM NORTH ON I-95:

Get in LEFT lane before the Union Street Exit. Take Union Street Exit to LEFT.

At the stop sign, turn left. Continue until you reach Main Street (big intersection).

Take Main Street over Main Street Bridge. Get in right lane immediately after getting on the bridge.

Take the first right exit at the base of the bridge. At the end of the exit, turn left (you will go under I-95), go straight until you reach the hotel.

From the Airport:

An independent van service is available from the airport to all the major hotels, including Jacksonville Hotel on the Riverwalk. The cost is approximately \$8.00.

OFFICERS 1988-89

PRESIDENT: David W. Engel, NMFS, Beaufort Laboratory, Beaufort, NC 28516. 919/728-8741.

PRESIDENT-ELECT: Dennis M. Allen, Baruch Marine Laboratory, P.O. Box 1630, Georgetown, SC 29442. 803/546-3623.

SECRETARY-TREASURER: Ronald T. Kneib, Marine Institute, University of Georgia, Sapelo Island, Georgia 31327. 912/485-2297.

PROGRAM CHAIRMAN: Linda C. Clements, NMFS, Beaufort Laboratory, Beaufort, NC 28516. 919/728-8737.

STUDENT MEMBER: Lynn Barker, Box 7617, Dept. of Zoology, NCSU, Raleigh. NC 27695-7616. Office 919/737-3583 or home 919/834-5978.

MEMBER AT LARGE: A. Quinton White, Dept. of Biology, Jacksonville University Jacksonville, FL 32211. 904/744-3950.

PAST PRESIDENT: Vic G. Burrell, Jr. SCMRRI, P.O. Box 12559, Charleston, SC 29412. 803/795-6350.

POSTER SESSION

Thursday night, October 27, 1988

Tidal flushing of a coastal lagoon: A video.

Ned P. Smith and Patrick A. Pitts. Harbor Branch
Oceanographic Institution. 5600 Old Dixie Highway,
Ft. Pierce, FL 34946.

SLIDE SESSION I

Friday morning, October 28, 1988

- 8:25 Welcome - David W. Engel, President
- 8:30 Carbohydrate fluctuations in a salt marsh estuary.
James J. Alberts*, Raphael M. Kudela, J. Dean Pakulski
and Mary T. Price. University of Georgia Marine Institute
Sapelo Island, GA 31327.
- 8:50 Mass flow of gas transportation in Spartina alterniflora.
Yuan-Hsun Hwang* and James T. Morris. Dept. of Biology,
University of South Carolina, Columbia, SC 29201.
- 9:10 Response of harpacticoid copepods to detrital accumulation
on seagrass blades: A field experiment with Metis holothuriae.
Harry A. Meyer. Department of Biology, Univ. of South
Florida, Tampa, FL 33620.
- 9:30 Seine sampling efficiency in a tidal creek pool.
Susan Service*, Ginger Ogburn, Dennis Allen and Robert
Feller. Belle W. Baruch Institute for Marine Science
and Coastal Research, P.O. Box 1630, Georgetown, SC 29442.
- 9:50 - 10:20: Coffee Break
- 10:20 Patterns of flounder settlement in shallow estuarine nursery
areas.
John S. Burke, Dept. of Zoology, N.C. State University,
Raleigh, NC.
- 10:40 Effects of soluble sulfide on ammonium uptake in Spartina
alterniflora.
Paul M. Bradley* and James T. Morris¹. Marine Science
Program, University of South Carolina, Columbia, SC 29208.
also Dept. of Biology.
- 11:00
~~11:00~~ COLLEMAN + MORRIS ()
An inventory and analysis of 15 years of water quality data
from the Charleston Harbor estuary.
Kevin B. Davis* and Robert F. Van Dolah. South Carolina
Marine Resources Research Institute, PO Box 12559,
Charleston, SC 29412.
- MOVE UP

* Indicates Speaker

11:20 Dieback formation due to increase in pore water salinity in Charleston Harbor, South Carolina.
Catherine H. Coleman* and James T. Morris. Marine Science Program, University of South Carolina, Columbia, SC 29208.

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11:40 - 1:30: Lunch

Friday Afternoon, October 28, 1988

1:30 - 2:45 BIOTECHNOLOGY MARINE RESEARCH

Introductory Remarks.

2:45 David W. Engel. National Marine Fisheries Service, Southeast Fisheries Center, Beaufort Laboratory, Beaufort, NC 28516.

Opportunities in the field of aquaculture.

Nancy H. Hadley. Marine Resources Research Institute, PO Box 12559, Charleston, SC 29412.

TBT or not TBT: Are non-toxic antifoulants the answer to the question?

Don Gerhart. Duke University Marine Laboratory, Beaufort, NC 28516.

Biocompatible adhesives from marine mussels.

C.V. Benedict and Elsie M. Mathews*, Biopolymers, Inc. PO Box 1307, Farmington, CT 06034.

2:45 - 3:15: Coffee Break

SLIDE SESSION II

3:15 Trends in the gut residence time of harpacticoid prey in juvenile spot (Leiostomus xanthurus) (Pisces): A laboratory analysis using visual and immunological methods.
Lara L. Matthews* and Robert J. Feller. University of South Carolina, Marine Science Program, Columbia, SC 29208.

3:35 Salinity influences on routine oxygen consumption in the teleost Cyprinodon variegatus.
Frank G. Nordlie* and Stephen J. Walsh. Dept. of Zoology, University of Florida, Gainesville, FL 32611.

3:55 Effect of available nutrient sources on regeneration in the brittlestar Microphiopholis gracillima.
Kevin T. Fielman*, S. Stancyk, and L. Clements. Marine Science Program and Belle W. Baruch Institute, University of South Carolina, Columbia, SC 29208.

- 4:15 Structuring parameters of low salinity nekton: the importance of fauna origin.
Mark S. Peterson, Harbor Branch Oceanographic Institution, Inc., 5600 Old Dixie Hwy, Ft. Pierce, FL 34946.
- 4:35 The development of a fisheries independent monitoring program in Florida's estuaries.
R.H. McMichael, Jr., K.A. Killam*, and M.E. Mitchell.
Florida Marine Research Institute, 100 8th Ave. SE, St. Petersburg, FL 33701.

SLIDE SESSION III

Saturday morning, October 29

- ~~8:45~~ Larval dispersal of estuarine crustaceans: Growing up in the ocean.
Dennis M. Allen. Baruch Marine Laboratory, PO Box 1630, Georgetown, SC 29440.
- 9:05 ~~An overview of research concerning St. Johns River.~~
~~Carol DeMort. University of North Florida, Jacksonville, FL.~~
- 9:25 Sampling natant macrofauna in intertidal vegetation.
R.T. Kneib*, W. Leslie, J. Parker, and S. Somerlot.
University of Georgia, Marine Institute, Sapelo Island, GA 31327.
- 9:45 Aspects of the marine and freshwater systems of the Cayman Islands, B.W.I.
¹Thomas M. Baugh* and Robin G. Todd².
¹ 2115 Nathan Dr. West, Jacksonville, FL 32216.
² Insect Control and Research, Inc. Baltimore, MD 21228-1199
- 10:05 - 10:30: Coffee Break
- 10:30 Water quality problems and solutions in mosquito control impoundments of the Indian River Lagoon.
Paul R. Carlson, Jr., Laura A. Yarbrow, Herman A. Arnold, William B. Sargent¹* and James R. David².
¹ Florida Dept. of Natural Resources, Florida Marine Research Institute and ² Saint Lucie County Mosquito Control District, St. Petersburg, FL.
- 10:50 An overview of the greater Jacksonville kingfish tournament.
Q. White*, A. Galloway and S. Florey.
Jacksonville University, Jacksonville, FL.
- 11:10 Shell disease in North Carolina blue crabs: a description.
David W. Engel¹*, Edward J. Noga² and Sean McKenna³.
¹ NMFS, Beaufort Laboratory, Beaufort, NC 28516
² NCSU, School of Veterinary Medicine, Raleigh, NC
³ Department of Natural Resources and Human Development, NC Division of Marine Fisheries, Washington, NC.