

SPRING MEETING PROGRAM

March 26-28, 1998 -- Athens, Georgia

General Program

Thursday	March 26	Institute of Ecology	1630-2200 1800-2200 2000	Registration Poster Session and Social SEERS Board Meeting
Friday	March 27	Botanical Garden	0800-0930 0845-0900 0900-1015 1015-1030 1030-1145 1145-1315 1315-1430 1430-1445 1445-1545 1830-?	Registration Welcome/Announcements Paper Session I Break Paper Session II Lunch Paper Session III Break Paper Session IV Banquet
Saturday	March 28	Institute of Ecology	0830-0915 0930-1200 1200	Business Meeting (Awards, Elections etc.) Special Session (Geographical Signatures of Southeastern US Estuaries) Closing Comments

Meeting Announcements

- 1) Contact Merryl Alber (706-542-5966, malber@uga.cc.uga.edu) or Alan Lewitus (803-546-3623, Lewitus@belle.baruch.sc.edu) for information.
- 2) The registration fee is \$40 for regular members and \$30 for student members. This includes the social, breaks, and banquet.
- 3) Paper and poster abstracts will be available at the registration table.
- 4) Biographical sketches of candidates for SEERS President and Program Chair will be available at the registration table.
- 5) *Contributed oral papers are limited to 12 minutes with 3 minutes for questions.*

SCHEDULED TALKS/POSTERS

Thursday Evening Poster Session

(1800-2200)

Burton, J. and Young, R. **Sediment Preference by juvenile Spotfin Mojarra, *euchinostomus argenteus*.** Coastal Carolina University, PO Box 261954, Conway, SC 29528-6054.
(*Undergraduate Student Competition*)

Chipouras, E., Montague, C. L., Jones, L. M., Chesnes, T., and Regan, C. J. **An ongoing program to monitor the effects of fresh water inflow on submerged macrophyte communities found in land-margin aquatic habitats of northern Florida Bay.**
Department of Environmental Engineering Sciences, University of Florida, PO Box 116450, Gainesville, FL 32611.

Cooper, S. **Paleoecological study of the Neuse and Pamlico estuaries.** Duke University
Wetland Center, Box 90333, Nicholas School of the Environment, Durham, NC 27708.

Curran, M.C., Chant, R.J., Able, K.W. and Glenn, S.M. **Vertical migration of winter flounder larvae as a possible mechanism for tidal retention in a New Jersey estuary.** Univ. So. Carolina Beaufort, Beaufort, SC 29902 (*MCC*); Institute of Marine and Coastal Studies (IMCS), Rutgers University, New Brunswick, NJ 08903 (*RJC, SMG*); Marine Field Station, IMCS, Rutgers University, Tuckerton NJ 08087 (*KWA*).

Dame, R., Koepfler, E., Allen, D., Bushek, D., Corbett, C., Edwards, D., Gregory, L., Prins, T., Kjerfve, B., Lewitus, A., Schubauer-Berigan, J. and Students. **Oyster reefs as structural and functional components of tidal creeks: an ongoing ecosystem experiment.**
Coastal Carolina University, Conway, SC 29528 (*RD, EK, LG, TP, students*); Baruch Marine Laboratory of the University of South Carolina, Georgetown, SC 29442 (*DA, DB, AL, JS-B*); University of South Carolina, Columbia, SC 29208 (*CC, DE, BK*).

DeFranco, C.P., Bushek, D., Gregory, L., Corbett, C. and Dame, R.F. **Growth and survival of the eastern oyster *Crassostrea virginica* in intertidal creeks.** Department of Marine Science, Coastal Carolina University, Conway, SC (*CPD, LG, RFD*); Baruch Marine Field Laboratory, University of South Carolina, Georgetown, SC (*DB, CC*).
(*Undergraduate Student Competition*)

Dunn, J.M. and Cross, R.E. **An experimental analysis of the effects of *Uca pugilator* feeding activity on benthic meiofauna in overwash sediments in microcosms.** Department of Biology, University of South Carolina -Beaufort, Beaufort, SC 29902. (Undergraduate student)

Eddins, S.G.N. and Williams, D.F. **Winyah Bay as a partially mixed estuary: A geochemical prospective.** Marine Science Program, University of South Carolina, Columbia, SC 29208 (*SGNE*). South Carolina Honors College, University of South Carolina, Columbia, SC 29208 (*DFW*). (Graduate student)

Fox, S.L., Jones, L., Aycock, S., Bell, K., Blair, C., Fillie, C., Green, T., Kennedy, J., Kinnebrew, C., Lyttle, K., McCarthy, S., Palumbo, M., Porter, B., Snyder, M., Zehe, L., and Montague, C. L. **The search for *Pfiesteria piscicida* in sediments from Dunn Creek, St. Johns River, FL using a modified bioassay** University of Florida, Department of Environmental Engineering Sciences, Gainesville, FL. (Graduate student)

Katsaros, A.R., Touchette, B.W., Glasgow, H.B. Jr, and Burkholder, J.M. **The physiological responses of a seagrass (*Zostera marina* L.) to light deprivation.** North Carolina State University, Department of Botany. Raleigh, NC.
(*Undergraduate Student Competition*)

Lehwald, J.L. and Alber, M. **Plankton concentrations in an estuarine creek front.** Dept. of Marine Sciences, University of Georgia, Athens GA 30602.
(*Undergraduate Student Competition*)

Marshall, F.E. III. **Salinity profiles in the St. Sebastian River, Florida.** University of Central Florida, Orlando, FL.

Milan, B., Allen, D.M., Bushek, D., and Gregory, L. **Use of intertidal creeks by the Atlantic silverside *Menidia menidia*: Comparisons between bank full (high tide) and residual pool (low tide) catches.** Marine Science Department, Coastal Carolina University (*BM, LG*); Baruch Marine Field Laboratory, University of South Carolina (*DMA, DB*)
(*Undergraduate Student Competition*)

Parsons, D.C., S.H. Ensign, M.A. Mallin, M.R. McIver, T.L. Wheeler. **Spatial and temporal water quality patterns in five tidal creeks in southeastern North Carolina.** University of North Carolina Wilmington, Center for Marine Science Research, Wilmington, NC 28403.

Rephann, J., Bushek, D., Gregory, L., Corbett, C. and Dame, R. **Oyster and barnacle recruitment into intertidal creeks in North Inlet Estuary, Georgetown, SC.** Coastal Carolina University, Conway, SC (*JR, LG, RD*); Baruch Marine Field Laboratory, University of South Carolina, Georgetown, SC (*DB, CC*).
(*Undergraduate Student Competition*)

Sheldon, J., Alber, M. and Chalmers, A. **Flushing times of five Georgia estuaries.** Department of Marine Sciences, University of Georgia, Athens, Georgia 30602-3636.

Touchette, B.W., Burkholder, J.M., and Glasgow, H.B. Jr. **Effects of nitrate and temperature on eelgrass (*Zostera marina* L.) growth and internal nutrient compositions.** North Carolina State University, Department of Botany. Raleigh, NC. (Graduate student)

Wingate, L.A., Schukert, K.J. and Bronk, D.A. **Effect of vacuum pressure on post-filtration dissolved nitrogen concentrations.** Department of Marine Sciences, University of Georgia, Athens, GA, 30602-3636.
(*Undergraduate Student Competition*)

Friday Morning - Paper Session I

0845 **Welcome and Announcements (Richard Dame)**

0900 Weaver, D. **Dining in the twilight zone: Food web structure of reef fishes of the Mississippi/Alabama outer continental shelf.** Department of Fisheries and Aquatic Sciences, University of Florida, 7922 NW 71st Street, Gainesville, FL 32653.
(*Student Competition*).⁷

0915 Wrona, A.B., Wiegert, R.G. and Covert, J. **Free-ranging growth characteristics compared to laboratory growth of juvenile blue crabs (*Callinectes sapidus*).** The University of Georgia Department of Marine Science, Athens, GA.
(*Student Competition*).

0930 Green, R.A., Bushek, D., and Dame, R.F. **The spatial distribution of the oyster parasite *Perkinsus marinus* along intertidal creeks within North Inlet Estuary, South Carolina.** Coastal Carolina University, Conway, SC 29528 (*RAG, RFD*); Baruch Marine Lab, University of South Carolina, Georgetown, SC 29442 (*DB*).
(*Student Competition*).

0945 Hayes, K.C., Lewitus, A.J., Koepfler, E.T. and Caldwell, ^{TONYA}~~P.L.~~ **The bacterial activity in saltmarsh waters: The importance of grazing, substrate effects and particle attachment.** Coastal Carolina University, Marine Science Department, Conway, SC 29526 (*KCH, ETK, TLC*); and Baruch Marine Laboratory, University of South Carolina, Georgetown, SC 29442 (*AJL*).
(*Student Competition*).

1000 Pigg, R., Koepfler, E., Lewitus, A., Gregory, L. **The effect of substrates, light and competition on phytoplankton and bacteria growth in North Inlet.** Coastal Carolina University, Marine Science Department, Conway, SC 29526 (*RP, EK, LG*); and Baruch Marine Laboratory, University of South Carolina, Georgetown, SC 29442 (*AJL*).
(*Student Competition*).

1015 **BREAK**

Friday Morning - Paper Session II

- 1030 Glasgow, H.B., Jr. and Burkholder, J.M. **Identification and differentiation of *Pfiesteria piscicida* and *Pfiesteria*-like dinoflagellates from morphologically similar species in Albemarle – Pamlico and Chesapeake Bay estuaries.** North Carolina State University, Department of Botany. Raleigh, NC.
(*Student Competition*).
- 1045 Zhao, P., Cai, W.-J. and Wang, Y. **Evaluation of new pH and pCO₂ microelectrodes for study of organic carbon degradation and carbonate dissolution in marine sediments.** Department of Marine Sciences, University of Georgia, Athens, GA 30602
(*Student Competition*).
- 1100 Covert, J.S. and Moran, M.A. **Characteristics of colloidal and dissolved organic matter from a coastal Georgia blackwater system.** Department of Marine Sciences, University of Georgia, Athens, GA 30602
(*Student Competition*).
- 1115 Merickel, J.A. and Wiebe, W.J. **Nutrient retention within sand cay, high island and continental mangrove forests.** Institute of Ecology and Department of Marine Sciences, University of Georgia, Athens, GA.
(*Student Competition*).
- 1130 Stevens, P.W. and Montague, C.L. **The replacement of saltmarsh by a mangrove community at the Cedar Keys, FL.** Department of Environmental Engineering Sciences, University of Florida, Gainesville, FL 32611.
(*Student Competition*).
- 1145 LUNCH

Friday Afternoon - Paper Session III

- 1315 Smith, N.P. **Using acoustic doppler current profiler data to estimate long-term volume transport: An exercise in frustration.** Harbor Branch Oceanographic Institution, 5600 U.S. Highway 1 North, Fort Pierce, Florida.
- 1330 Marshall, F.E. III. **Characterization and statistical modeling of the salinity regime in the St. Sebastian River.** University of Central Florida, Orlando, FL.

- 1345 Schukert, K.J., Bronk D.A., Glibert, P.M. and Lomas, M.W. **Total dissolved nitrogen analysis: comparison of the persulfate oxidation, ultraviolet oxidation, and high temperature oxidation methods.** Department of Marine Sciences, School of Marine Programs, University of Georgia, Athens, GA, 30602-2206 (*KJS, DAB*); Horn Point Environmental Laboratory, Center for Environmental and Estuarine Studies, University of Maryland, P.O. Box 775, Cambridge, MD, 21613 (*PMG, MWL*). (Student).
- 1400 Bushek, D., Porter, D., White, D., Keese, J., Jones, B. and Edwards, D. **Land-use patterns, hydrodynamics and the spatial pattern of dermo disease in two South Carolina estuaries.** Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, Georgetown, SC 29442 (*DB, DP, JK*); University of South Carolina, Columbia, SC 29208 (*DW, BJ, DE*).
- 1415 Bushek, D., Reece, K., Graves, J., Holly, R. and Hudson, K. **Development of molecular markers for population genetic analysis of *Perkinsus marinus*.** Baruch Marine Field Laboratory, Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, Georgetown, SC 29442(*DB, RH, KH*); Virginia Institute of Marine Science, Gloucester Point, VA 23062 (*KR, JG*).
- 1430 **BREAK**

Friday Afternoon - Paper Session IV

- 1445 Koepfler, E., Lewitus, A., Dame, R. and Gregory, L. **Influence of geomorphology and landscape setting on nutrient and plankton of eight salt marsh tidal creeks of North Inlet, SC.** Coastal Carolina University, Marine Science Department, Conway, SC 29526 (*EK, RD, LG*); and Baruch Marine Laboratory, University of South Carolina, Georgetown, SC 29442 (*AJL*).
- 1500 Allen, D.M., Bushek, D., Dame, R., Gregory, L., and Milan, B. **Does the geomorphology of intertidal creeks affect nekton use?** Baruch Marine Field Laboratory, University of South Carolina (*DMA, DB*); Marine Science Department, Coastal Carolina University (*RD, LG, BM*).
- 1515 Vose, F., Blicht, K., Cooksey, C., DeHaven, M. and Leavens, W. **Changes in fish species composition off Cedar Key, on the west coast of Florida: why are anchovies more abundant today than fifty years ago?** Florida Department of Environmental Protection, Cedar Key Field Station, 11350 SW 153rd. Court, Cedar Key Florida, 32625.
- 1530 Porter, J.W., Porter, K.G., Thacker, K., Black, C., Gabbidon, W., Getten, L., Quirolo, C. and Porter, D.W. **Patterns of coral reef development in the Negril Marine Park and the absolute necessity for a whole-watershed management plan.** Institute of Ecology, University of Georgia, Athens, GA 30602 (*JWP, KGP*); Negril Coral Reef Preservation Society, P.O. Box 27, Negril, Jamaica (*KT, CB, WG, LG*); Reef Relief, P.O. Box 430,

Key West, FL 33041 (CQ); Wellesley College, Wellesley, MA 02181 (DWP).

1830 BANQUET

Saturday Morning - Special Session
Geographical Signatures of Southeastern US Estuaries

0830 BUSINESS MEETING – AWARDS, ELECTIONS, ETC.

0930 FLORIDA – to be announced

1000 Wiegert, R.G., Alber, M. and Chalmers, A. **Geographic signatures of Georgia estuaries. Dept. of Marine Sciences, University of Georgia, Athens GA 30602.**

1030 Mallin, M.A., McIver, M.R., Shank, G.C., Parsons, D.C., and Ensign, S.E. **Geography and biological responses of North Carolina estuaries. Center for Marine Science Research, University of North Carolina at Wilmington, Wilmington, N.C. 28403.**

1100 Dame, R., Allen, D., Gardner, R., Gilman, C., Kjerfve, B, and Lewitus, A. **South Carolina estuaries: their geographical signatures. Coastal Carolina University, Conway, SC 29528 (RD, CG); University of South Carolina, Georgetown, SC 29442 (DA, RG, BK, AL).**

1130 Dame, R., Alber, M., Allen, D., Chalmers, A., Gardner, R., Gilman, C., Kjerfve, B, Lewitus, A., Montague, C., Pinckney, J., and Smith, N. **Estuaries of the South Atlantic coast of North America: their geographical signatures. Coastal Carolina University, Conway, SC 29528 (RD, CG), University of Georgia, Athens, GA 30602 (MA, AC); University of South Carolina, Georgetown, SC 29442 (DA, RG, BK, AL), University of Florida, Gainesville, FL 32611 (CM); University of North Carolina, Morehead City, NC 28557 (JP); Harbor Branch Oceanographic Institute, Fort Pierce, FL (NS).**

1200 CLOSING COMMENTS

SEERS SPRING MEETING

March 26-28, 1998 -- Athens, Georgia

PROGRAM UPDATES, BIOGRAPHICAL SKETCHES & ABSTRACTS

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Saturday	March 28	Institute of Ecology	0830-0915 930-1200 1200	Business Meeting (Awards, Elections etc.) Special Session (Geographical Signatures of Southeastern US Estuaries) (Eric Keopfler, Chair) Closing Comments