

## Curriculum Vitae

### Clay Lafitte Montague, Ph.D. Associate Professor Emeritus

Howard T. Odum Center for Wetlands  
Department of Environmental Engineering Sciences  
Engineering School of Sustainable Infrastructure & Environment  
College of Engineering  
University of Florida, Gainesville

**Current mailing address:** 245 Deerwood Creek Estates, Waverly, GA 31565-2301

Office: Gainesville, FL: (352) 392-622  
Fax: (912) 265-5435

Waverly, GA: (912) 265-5435  
Email: montague@ufl.edu

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#### PERSONAL

Born: April 18, 1951, Atlanta, Georgia.

Marital Status: Married, two daughters, ages 33 and 35, five grandchildren.

Foreign Languages (proficiency): 1<sup>st</sup>-German (converse, read); 2<sup>nd</sup>-French (read, greatest formal education); 3<sup>rd</sup>-Spanish; some exposure to Italian and Portuguese (pronunciation and some basic communication).

Hobbies and extramural skills: choral singing, musical instruments, SCUBA (past designations as Research Diver and Dive Master on research cruises), boating, fishing, tractor and antique truck rebuilding, building construction, management of a real estate LLC, management of a 501(c)(3) charitable environmental organization.

#### EDUCATION

1980 Ph.D., Zoology, University of Georgia, Athens (Phi Kappa Phi).

Dissertation: The net influence of the mud fiddler crab, *Uca pugnax*, on carbon flow through a Georgia salt marsh: the importance of work by macroorganisms to the metabolism of ecosystems (R.G. Wiegert, major professor).

1977 M.S., Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta.

Thesis: The dynamics of a plankton community: feedback analysis of a specialized predator-prey interaction in a stressed environment (W.R. Fey, major professor).

1975 Summer Course in Estuarine Ecology, University of Georgia Marine Extension Center, Skidaway Island (R.J. Reimold, instructional team leader).

1973 B.S., Biology, University of North Carolina, Chapel Hill.

#### ACADEMIC EMPLOYMENT

2010-present. Associate Professor Emeritus (Coastal Systems Ecology), Department of Environmental Engineering Sciences, University of Florida, Gainesville – teaching, research, service, and consulting in coastal and estuarine ecology, systems ecology, ecological modeling, environmental science. Research: estuarine field studies, laboratory experimentation, data analysis, and dynamic simulation modeling; advise graduate students.

1988-2010. Associate Professor (Coastal Systems Ecology), Department of Environmental Engineering Sciences, University of Florida, Gainesville – duties same as above.

1980-1988. Assistant Professor (Coastal Systems Ecology), Department of Environmental Engineering Sciences, University of Florida, Gainesville (Appointed to Doctoral Research Faculty, 1987). – duties same as above.

1980. Project Coordinator and Consultant, University of Florida, Gainesville. Florida Power Corporation Contract No. QEA-000045, H.T. Odum, Principal Investigator. – supervised field and laboratory operations, data collection and analysis, and report writing on thermal effects of a nuclear power plant on estuarine marshes and bays near Crystal River, Florida.

- 1978-1980. Graduate Research Assistant, University of Georgia, Athens. NSF Grant No. DEB 77-20359, E.B. Haines, Principal Investigator. – designed and built an apparatus to separate carbon dioxide gas from combustion gases for analytical determination of stable carbon isotopes in biological materials; trained employees to use above apparatus; co-authored scientific publication of results from apparatus.
- 1977-1978. Graduate Research Assistant, University of Georgia, Athens. NSF Grant No. OCE 75-20842-A02, L.R. Pomeroy and R.G. Wiegert, Principal Investigators. – collected and analyzed data on the effect of fiddler crabs on salt marsh growth and decay processes.
- 1976-1977. Graduate Teaching Assistant, University of Georgia, Athens. – laboratory instructor for general biology, marine ecology, and graduate ecological energetics courses.
1976. Graduate Research Assistant, University of Georgia, Athens. NSF Grant No. OCE 75-20842-A01, L.R. Pomeroy and R.G. Wiegert, Principal Investigators. – reviewed research proposal; performed preliminary research on fiddler crabs influence on saltmarsh energy flow; reviewed literature to assist selection of coefficient values for a saltmarsh simulation model.
- 1973-1975. Graduate Assistant, Georgia Institute of Technology, Atlanta, W.R. Fey, supervisor. – developed and tested computer simulation of plankton dynamics in Great Salt Lake, Utah; developed research proposal for an ecosystem model of a blackwater stream (Satilla River, Georgia).

### **ORGANIZATIONAL and BUSINESS MANAGEMENT POSITIONS**

- Mar 2014- present. Treasurer, Board of Directors, Satilla RiverWatch Alliance, Inc., Woodbine, Georgia.
- Feb 2012 – Feb 2013. Interim Satilla Riverkeeper and Executive Director of Satilla RiverWatch Alliance, Inc., Woodbine, Georgia. Ran all aspects of a 501(c)(3) charitable environmental organization in southeastern Georgia: organized fundraising and river appreciation events, eliminated all organizational debts, wrote grant proposals and managed grants, built a substantial bank balance, received and addressed various environmental complaints, raised a water quality issue that resulted in a favorable joint resolution of the State of Georgia Legislature (2013); educated a legislative subcommittee on environment; constructively interfaced with a mining company; helped relocate monitoring sites for a wastewater treatment plant; helped settle a coal ash disposal lawsuit; helped settle a wetlands development lawsuit; reviewed permit applications for a marina; and actively participated in environmental coalitions.
- 2003-2010. Managing Member, Montague Investments LLC. Managed a series of real estate mortgages; arranged profitable liquidations of real property, mortgages, and equities; terminated LLC after all properties were liquidated and funds distributed to LLC members.

### **ADJUNCT APPOINTMENT**

- 2006-2011. Adjunct Associate Professor, Department of Forestry & Natural Resources, Clemson University, Clemson, South Carolina – appointed primarily to serve on a doctoral committee.

### **SABBATICALS**

- 1992-1993. Guest Professor, Swiss Federal Institute of Environmental Science and Technology, Lake Research Laboratory, Ecotoxicology Group (H. Güttinger, group leader), Kastanienbaum, Switzerland.
- 2008-2009. Sabbatical leave: Examination of ecological issues pertaining to estuarine water quality and beach nourishment in coastal Georgia and Florida.

### **CONSULTING & EXTRAMURAL SERVICE**

2014. Consultant: background research for economic valuation of ecosystems of the St Johns River, Florida. Seagrass Ecosystems Analysts Inc., East Palatka, Florida.
- 2011-present. Consultant: oil spill damage assessment, marsh invertebrates in coastal Louisiana. Industrial Economics, Inc. Boston, Mass.

- 2010-2014. Alternate Member for environment/ecology, Louisiana Water Resources Council. Pre-approved as an Independent External Peer Reviewer of U.S. Army Corps of Engineers projects in Louisiana relating to ecosystem restoration, flood risk management, and navigation. Battelle Memorial Institute, Columbus, Ohio.
- 2010-2011. External Advisor, wetlands ecology. Alternative Water Supply Issue, St Johns River Water Management District.
2010. Wetland Ecologist, Independent External Peer Review Panel, U.S. Army Corps of Engineers, Louisiana Coastal Area (LCA) Restoration, 6 Projects: Amite River Diversion Canal Modification. Battelle Memorial Institute, Columbus, Ohio, Apr-Oct 2010.
- 2009-2010. Biologist, Independent External Peer Review Panel, U.S. Army Corps of Engineers, Brevard County, Florida, Mid-Reach Shoreline Protection Project. Battelle Memorial Institute, Columbus, Ohio, Fall 2009 – Spring 2010.
2009. Review and evaluation of proposed rule changes for implementing the State of Georgia's Coastal Marshlands Protection Act, Southern Environmental Law Center, Atlanta, Georgia, August 2009.
2008. Expert witness in systems ecology in defense of the State of Florida's intent to issue a beach nourishment permit to the Town of Palm Beach, Florida for the beaches of Reach 8, Greenberg-Traurig Law Firm, Tallahassee, Florida, Jul-Oct 2008.
- 2006-2009. Advisor, *Analytical Framework for Coastal and Estuarine Study (ACES)*, Surface Water Quality Monitoring Program, St Johns River Water Management District, starting Dec. 2006.
- 2007-2008. Evaluation of red maple die-off in *Egans Creek Estuary*, Clinch Kavanaugh, Fernandina Beach, Florida, May 2007 – Feb 2008.
2007. Evaluation of prostrate live *Spartina alterniflora* in the *Guana Tolomato Matanzas National Estuarine Reserve*. Oct 2007.
2006. Review, site visit, and report on proposed application of highly treated wastewater to a natural wetland in northern Camden County. *Joint Development Authority, Camden County, Georgia* Mar 2006.
2006. Review of Horseshoe Cove sedimentation problem in consideration of constructing a tidal marsh for boat channel stabilization (Camden County, Georgia). For *Satilla RiverKeeper*, Apr 2006.
- 2006-2008. Review of saltmarsh die-off in Nassau and Duval Counties, Florida. For *Northeastern Florida Aquatic Preserves System*, Oct 2006-Jul 2008.
- 2003-2010. Managing Member, Montague Investments LLC. Atlanta, Georgia.
- 2003-present. Executor, Estates of Anne L. Montague and Harold A. Montague, Roswell, Georgia.
1991. U.S. Army Corps of Engineers: Influence of inlet jetties on transport of larval fish into estuaries. Sept-Oct, 1991 (with A.J. Mehta).
1991. Cousteau Society: Team member, energy analysis of the Alaskan oil spill in Prince William Sound. May 1991 (with H.T. Odum, E.C. Odum, M.T. Brown, and R. Woithe).
1990. Collier County Mosquito Control District, Naples, Florida: Computer simulation of the production of saltmarsh mosquitoes as a function of water level and rainfall in mangrove ecosystems (with S.A. Ritchie).
1988. United States Agency for International Development, Vector Biology and Control Branch: Environmental assessment of malaria control and rural sanitation projects in Honduras, May 1988 (with S.G. Breeland, and R. Hogrefe).
- 1984-1990. United States Fish and Wildlife Service, National Ecology Center, Gainesville, Florida: Computer simulation of the control of cotton rats in south Florida sugarcane fields, (with L.W. Lefebvre, N.R. Holler, and D. G. Decker).
- 1982-1983. Southwest Florida Water Management District: Design of data collection program to assess minimum freshwater flow requirements in the Seven Rivers Basin, (with G.R. Best, F.J. Maturo, and J.W. Caldwell).

## PROFESSIONAL SOCIETIES & SERVICE HIGHLIGHTS

- Treasurer, Board of Directors, Satilla RiverWatch Alliance, Inc, 2014-present.
- Advisor, citizen effort to close Noyes Cut, an obsolete navigation cut that causes damage to habitat and access within Dover Creek in the Satilla River estuary (volunteer advising at the request of the Satilla Riverkeeper), 2011-present.
- Advisor, Satilla Riverkeeper, Woodbine, Georgia (Former Interim Executive Director and Riverkeeper 2012), 2013-present.
- Southeastern Estuarine Research Society: Lifetime Member (1994-1998 Past President, 1992-1994 President, 1990-1992 President Elect; 1982-1984 Program Chairman; Frequent judge of student presentations).
- Estuarine Research Federation (1992-1994 Member, Board of Directors, Judge of student presentations).
- American Association for the Advancement of Science.
- Florida Shore and Beach Preservation Association (Listed expert, coastal ecology 2003 - present).
- Member, Marine Technical Advisory Committee, Bureau of Assessment and Restoration Support. Florida Department of Environmental Protection, Tallahassee. 2010-2011. – scientific committee to advise the establishment of numeric nutrient criteria for all estuaries in Florida.
- Member, Coastal Engineering Technical Advisory Committee of the State of Florida Office of Beaches and Coastal Systems, 2000-2002.
- Workshop Convener: *Environmental Beach Nourishment in Florida*, for Florida Dept Environmental Protection, 2002.

- Ecosystems Panel, National Science Foundation, 1994-1996.
- Associate Editor, *Estuaries*, 1984-1987.
- Volunteer consultant, proposal reviewer, technical advisor, and workshop participant for several coastal management agencies in northeastern Florida and southeastern Georgia (*Timucuan National Ecological and Historic Preserve, Florida Department of Environmental Protection, Northeastern Florida Aquatic Preserves, Guana-Tolomato-Matanzas National Estuarine Research Reserve, Little Talbot Island State Park, Seaborse Key Marine Laboratory, Satilla RiverKeeper, Coastal Regional Planning Commission of Georgia*).

## HONORS and AWARDS

- Volunteer of the Year, Georgia River Network, 2014.
- Part of a semi-finalist team of seven, 2010 Buckminster Fuller Challenge for a project proposal entitled "Structures for Wave Energy Absorption and Colonization of Mangroves." Team leader: Mourad Zeghal, Department of Civil and Environmental Engineering, Rensselaer Polytechnic Institute.
- Certificate of Achievement, Florida Shore and Beach Preservation Association (2001)
- Tau Beta Pi Engineering Honor Society (selected as an Eminent Engineer, 1994)
- Certificate of Appreciation for Research and Development, Office of Information Transfer, US Fish and Wildlife Service (1985)
- Honor Society of Phi Kappa Phi (1980)

## SHORT COURSES TAUGHT

- *A Practical Introduction to Dynamic Simulation Modeling In Environmental Science Using the Indian River Lagoon Submerged Aquatic Vegetation Model IRLSAV With Stella® Simulation Software.* 30 Aug – 8 Sep 2003, St Johns River Water Management District, Palatka, Florida.
- *Ecotechnology Applied to Estuarine Systems:* 20-31 May 1996 Instituto de Pesquisas Hidráulicas, Universidade Federal do Rio Grande do Sul, RS, Brazil.
- *Introduction to Dynamic Simulation Modelling in Environmental Sciences.* Nov 1992 – Jan 1993, Lake Research Laboratory, Swiss Federal Institute of Environmental Sciences and Engineering (EAWAG), Kastanienbaum, Switzerland.

## MAIN COURSES TAUGHT

- *Estuarine systems.* Graduate level course in estuarine ecology. Coastal ecosystems, their components, processes, models and management from the tropics to the arctic, pristine to polluted. Includes field trips and literature review.
- *Environmental meteorology and oceanography.* Graduate and undergraduate course in the basics and interactions of physical, chemical and biological phenomena of the atmosphere and ocean.
- *Integrated marine biology.* A rigorous summer course in marine biology intended for upper level undergraduates in zoology. Physical, biological, and ecological aspects of the marine environment. Natural history of common coastal marine organisms and ecosystems including seagrasses, salt marshes, mudflats, rocky intertidal systems, mangroves, and coral reefs. Includes laboratories, field trips, instructional cruise for bluewater sampling and coral reef field trip, and 3-week independent field research project.
- *Environmental systems dynamics.* Graduate course in computer simulation modeling. Feedback principles and methods are introduced and used to develop and test hypotheses of causes of dynamics in an environmental system. Hypothesis tested through computer simulation.
- *Comparative approaches in systems ecology.* Graduate course. Alternative approaches for understanding ecological interactions, prediction after ecosystem perturbation, and optimal design with nature are evaluated within the context of natural selection and thermodynamics. Static, dynamic, deterministic, and stochastic study of energy flow, element cycling and information feedback.
- *Computational methods in environmental engineering sciences.* Required undergraduate course in numerical methods for engineers. Numerical modeling techniques and their application to environmental engineering. Use of personal computers and spreadsheets to solve problems with numerical methods.
- *Environmental science and humanity.* General environmental science class open to all students, but served as the required foundation course for environmental science majors. Interaction of technology and industrialization with earth's resources, and the resultant effect on environmental quality. Identification of air, water, and land pollution causes, effects, and controls. Concepts of environmental management and the socioeconomic and institutional factors influencing environmental quality.
- *Environmental science laboratory.* Required laboratory for all environmental science majors. Students learn principles and measurement of aquatic and terrestrial ecosystem development and response to environmental impact. Also included are field trips to power plant, water plant, sewage plant, and landfill.

**OCEANOGRAPHIC CRUISES**

- 1990: Assistant Scientist, Research Vessel Bellows, Florida Institute of Oceanography, St. Petersburg, Florida. Key West to Dry Tortugas, Florida Keys. Otter trawl, Capetown dredge, plankton tows, oceanographic data, diving operations for coral reef assessment. Frank Maturo, Chief Scientist, 27- 30 September 1990.
- 1989: Assistant Scientist, Research Vessel Bellows, Florida Institute of Oceanography, St. Petersburg, Florida. Key West to Dry Tortugas, Florida Keys. Otter trawl, Capetown dredge, plankton tows, oceanographic data, diving operations for coral reef assessment. Frank Maturo, Chief Scientist, 28 September – 2 October 1989.
- 1988: Assistant Scientist, Research Vessel Bellows, Florida Institute of Oceanography, St. Petersburg, Florida. Key West to Looe Key, Sand Key, Woman Key, Vestal Shoals, Coalbin Rock, Marquesas Rock. Otter trawl, plankton tows, Capetown dredge, Sargasso Seaweed sampling, oceanographic data, diving operations for coral reef assessment. Frank Maturo, Chief Scientist, 20-24 October 1988.
- 1987: Assistant Scientist, Research Vessel Bellows, Florida Institute of Oceanography, St. Petersburg, Florida. Miami to Bimini, Browns Cay, Great Bahama Bank, Morgans Bluff, Little Harbour Cay, Great Harbour Cay, Little Issac. Otter trawl, Capetown dredge, plankton tows, oceanographic data, diving operations for reef fish assessment. Frank Maturo, Chief Scientist, 3-7 November 1987.
- 1986: Assistant Scientist, Research Vessel Bellows, Florida Institute of Oceanography, St. Petersburg, Florida. Miami to Bimini, Cat Cay, Great Bahama Bank, Northwest Channel, Morgans Bluff, Little Harbour Cay, Great Stirrup Cay, Great Issac. Tucker trawl, otter trawl, Capetown dredge, plankton tows, oceanographic data, diving operations for reef fish and coral assessment. Frank Maturo, Chief Scientist, 3-6 October 1986.
- 1985: Assistant Scientist, Research Vessel Bellows, Florida Institute of Oceanography, St. Petersburg, Florida. St Petersburg to Dry Tortugas, Woman Key, Cosgrove Shoals. Midwater trawls, otter trawls, tarball tows, oceanographic data, diving operations for coral reef assessment. Frank Maturo, Chief Scientist, 2-7 October 1985.

**PUBLICATIONS (BY CATEGORY)****Refereed**

- 14-01 Montague, Clay L. 2014. "Systems Ecology." In *Oxford Bibliographies in Ecology*. Ed. David Gibson. New York: Oxford University Press. Online at <http://www.oxfordbibliographies.com/view/document/obo-9780199830060/obo-9780199830060-0078.xml>.
- 13-01 Mehta, A.J., R.G. Dean, C.L. Montague, E.J. Hayter, and Y.P. Khare. 2013. Understanding sea level rise and coastal hazards. Pages 139-177 in R.G. Watts (ed.) *Engineering Response to Climate Change, Second Edition*. (Boca Raton, Florida: CRC Press). 520 pages.
- 08-01 Montague, C.L. 2008. Recovering the Sand Deficit from a Century of Dredging and Jetties along Florida's Atlantic Coast: A Reevaluation of Beach Nourishment as an Essential Tool for Ecological Conservation. *Journal of Coastal Research* 24(4):899-916.
- 07-01 Montague, C.L. 2007. Dynamic simulation with Energy Systems Language. Chapter 28 (pages 28-1 – 28-32 in Fishwick, P. (ed.), *Handbook of Dynamic System Modeling*, Chapman & Hall/CRC Press, Boca Raton, Florida.
- 06-04 Stevens, P.W., C.L. Montague, and K.J. Sulak. 2006. Fate of fish production in a seasonally flooded saltmarsh. *Marine Ecology Progress Series* 327: 267-277.
- 06- 03 Stevens, P.W., S. Fox, and C.L. Montague. 2006. The interplay between mangroves and saltmarshes at the transition between temperate and subtropical climate in Florida. *Wetlands Ecology and Management* 14(5): 435-444.

- 06-02 Cai, T.T., C.L. Montague and J.S. Davis. 2006. The maximum power principle: An empirical investigation, *Ecological Modelling* **190**: 317-335.
- 06-01 Stevens, P.W., C.L. Montague, and K.J. Sulak. 2006. Patterns of fish use and piscivore abundance within a reconnected saltmarsh impoundment in the northern Indian River Lagoon, Florida. *Wetlands Ecology and Management* **14**: 147-166.
- 01-02 Genoni, G.P., R. Behra, C.L. Montague, H. Güttinger, and R. Ternay-Aegerter. 2001. Complex dynamics of adaptation in a nonaxenic *Microcystis* culture: 1. Effects of dinitrophenol on population growth (co-author). *Ecotoxicology and Environmental Safety* **48**: 235-240.
- 01-01 Montague, C.L., R. Behra, T.N.P. Bosma, G.P. Genoni, and H. Güttinger. 2001. Complex dynamics of adaptation in a nonaxenic *Microcystis* culture: 2. Computer simulation of dinitrophenol effects () *Ecotoxicology and Environmental Safety* **48**: 241-254.
- 00-01 Dame, R., M. Alber, D. Allen, M. Mallin, C. Montague, A. Lewitus, A. Chalmers, R. Gardner, C. Gilman, B. Kjerfve, Jay Pinckney, and N. Smith. 2000. Estuaries of the South Atlantic coast of North America: Their geographical signatures. *Estuaries* **23**: 793-819.
- 99-03 Ley, J.A., C.C. McIvor, and C.L. Montague. 1999. Fishes in mangrove prop-root habitats of northeastern Florida Bay: Distinct assemblages across an estuarine gradient. *Estuarine, Coastal and Shelf Science* **48**: 701-723.
- 99-02 Montague, C.L. 1999. Estuaries. Pages 235b – 239b *in Encyclopedia of Environmental Science*, D.E. Alexander and R.W. Fairbridge (eds.). Kluwer Academic Publishers, Hingham, Massachusetts.
- 99-01 Montague, C.L. 1999. Saline (salt) flats, marshes, waters. Pages 533b – 537b *in Encyclopedia of Environmental Science*, D.E. Alexander and R.W. Fairbridge (eds.). Kluwer Academic Publishers, Hingham, Massachusetts.
- 97-02 Montague, C.L. 1997. The future of Florida's coast. *J. Publ. Interest Enviro. Conf.* **1**:51-59.
- 97-01 Montague, C. L., and H.T. Odum. 1997. Introduction: the intertidal marshes of Florida's Gulf Coast, and Chapter 1: Settings and functions. Pages 1-33 *in Ecology and Management of Tidal Marshes: A Model from the Gulf of Mexico*. C.L. Coultas and Y.P. Hsieh (eds.). St. Lucie Press, Delray Beach, Florida.
- 96-01 Ward, G.H., and C.L. Montague. 1996. Estuaries. Chapter 12 *in Water Resources Handbook*, L.W. Mays (ed.), McGraw-Hill, Inc., New York. Pages 12.1-12.114.
- 95-02 Genoni, G.P., and C.L. Montague. 1995. Influence of the energy relationships of trophic levels and of elements on bioaccumulation. *Ecotoxicology and Environmental Safety* **30**(2): 203-218.
- 95-01 Ritchie, S. A., and C. L. Montague. 1995. Simulated populations of the black salt marsh mosquito (*Aedes taeniorhynchus*) in a Florida mangrove forest. *Ecological Modeling* **77**: 123-141.
- 94-01 Ley, J.A., C. L. Montague, and C. McIvor. 1994. Food habits of mangrove fishes: a comparison across salinity gradients. *Bulletin of Marine Science* **54**: 881-899.
- 93-03 Montague, C.L. 1993. Ecological engineering of inlets in southeastern Florida: design criteria for sea turtle nesting beaches. *Journal of Coastal Research*, Special Issue **18**: 267-276.
- 93-02 Montague, C. L. and J. A. Ley. 1993. A possible effect of salinity fluctuation on abundance of benthic vegetation and associated fauna in northeastern Florida Bay. *Estuaries* **16**: 703-717.
- 93-01 Montague, C. L., M. Paulic, and T.M. Parchure. 1993. The stability of sediments containing microbial communities: initial experiments with varying light intensity. Pages 348-359 *in Nearshore and Estuarine Cohesive Sediment Transport* (581 pp.), A.J. Mehta (ed.). Volume 42, Coastal and Estuarine Studies Series, American Geophysical Union, Washington, D.C.
- 90-02 Montague, C.L., and R.G. Wiegert. 1990. Salt marshes. Pages 481-516 (Ch. 14) *in Ecosystems of Florida* (765 pp). R. Myers and J. Ewel (eds.). University of Central Florida Press, Orlando.
- 90-01 Montague, C.L., L.W. Lefebvre, D.G. Decker, and N.R. Holler. 1990. Simulation of cotton rat population dynamics and response to rodenticide applications in Florida sugarcane: A comparison of alternative models. *Ecological Modelling* **50**: 177-203.
- 87-01 Montague, C.L., A.V. Zale, and H.F. Percival. 1987. Ecological effects of coastal marsh impoundments: A review. *Environmental Management* **11**(6), 1987:743-756.
- 86-02 Montague, C.L. 1986. Influence of biota on erodibility of sediments. Pages 251-269 *in Estuarine Cohesive Sediment Dynamics*, A.J. Mehta (ed.). Springer-Verlag, New York.

- 86-01 Bitton, G., S.R. Farrah, C. Montague, and E.W. Akin. 1986. Viruses in drinking water. *Environmental Science and Technology* 20(3): 216-222.
- 85-01 Montague, C.L. and W.H. Montague. 1985. Gray squirrel kills and eats blue jay fledgling. *Florida Field Naturalist* 13(3): 95-96.
- 82-02 Montague, C.L., W.R. Fey, and D.M. Gillespie. 1982. A causal hypothesis explaining predator-prey dynamics in Great Salt Lake, Utah. *Ecological Modelling* 17: 243-270.
- 82-01 Montague, C.L. 1982. The influence of fiddler crab burrows and burrowing on metabolic processes in salt marsh sediments. Pages 283-301 in *Estuarine Comparisons*, V.S. Kennedy (ed.). Academic Press, New York.
- 81-02 Montague, C.L. S.M. Bunker, E.B. Haines, M.L. Pace, and R.L. Wetzel. 1981. Aquatic macroconsumers. Pages 69-85 (Ch. 4) in *The Ecology of a Salt Marsh* (271 pp.), L.R. Pomeroy and R.G. Wiegert (eds.). Springer-Verlag, New York.
- 81-01 Darley, W.M., C.L. Montague, F.G. Plumley, W.W. Sage, and A. Psalidas. 1981. Factors limiting edaphic algal biomass and productivity in a Georgia salt marsh. *Journal of Phycology* 17: 122-128.
- 80-01 Montague, C.L. 1980. A natural history of temperate western Atlantic fiddler crabs (genus *Uca*) with reference to their impact on the salt marsh. *Contributions in Marine Science* 23: 25-55.
- 79-01 Haines, E.B., and C.L. Montague. 1979. Food sources of estuarine invertebrates analyzed using  $^{13}\text{C}/^{12}\text{C}$  ratios. *Ecology* 60: 48-56.

### **Expert Opinions for Legal Purposes**

- Montague, C. 2009. Opinion on impact to coastal ecology of proposed rule changes concerning inland marinas considered by the State of Georgia, Environmental Protection Department, Coastal Resources Division. Southern Environmental Law Center, Atlanta, Georgia, and Satilla RiverKeeper, Georgia. Summer 2009.
- Montague, C. 2008. *Impact to infauna from dredging and filling with beach compatible fill in Reach 8 of Palm Beach Island, Florida*. Written opinion submitted in support of testimony Aug 29th & Sep 3rd, 2008 for DOAH Case #08-1511, Division of Administrative Hearings, State of Florida, 2 Oct 2008. 8 pages.
- Montague, C. 2008. *Opinions of a coastal systems ecologist concerning the Reach 8 beach nourishment project in reference to the Surfriider Foundation v Town of Palm Beach litigation*. Written opinion submitted in support of testimony Oct 2nd, 2008 in DOAH Case #08-1511, Division of Administrative Hearings, State of Florida, 8 Aug 2008. 44 pages.

### **Papers in Non-refereed Conference Proceedings**

- 09-01 Fox, S., S. Bourne, C. Montague, and P. Kinser. 2009. Using a Collaborative Approach to Develop Analytical Framework for Coastal and Estuarine Studies. ESRI *Hydroline*, Spring 2009: 5-7.
- 08-01 Fox, S., S. Bourne, C. Montague, A. Ceric, and P. Kinser. 2008. ACES: Building a GIS-based analytical framework for coastal and estuarine study. *Proc. AWRRA 2008 Spring Specialty Conference*, San Mateo, California, 17-19 Mar 2008.
- 06-01 Montague, C.L. 2006. Analysis of a century of dredge and fill records on the Atlantic coast of Florida, with reference to missing sea turtle nesting habitat. *Proceedings of the 2006 National Conference on Beach Preservation Technology*, <http://www.fsbpa.com/2006%20Proceedings.htm>. 11 pages.
- 98-04 Chipouras, E. and C. L. Montague. 1998. Responses of submerged macrophytes to fresh water inflow to Florida Bay: a project overview. Sect. 4, Contr.12 in *Proceedings, 1998 Florida Bay Science Conference*, May 12-14, 1998. Florida Bay Program Management Comm. And Florida Sea Grant Consortium, Gainesville. 3 pages.
- 98-03 Chipouras, E., C.L. Montague, L. Jones, T. Chesnes, and C. Regan. 1998. 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. Sect. 4, Contr.13 in *Proceedings, 1998 Florida Bay Science Conference*, May 12-14, 1998. Florida Bay Program Management Comm. And Florida Sea Grant Consortium, Gainesville. 3 pages.
- 98-02 Jones, L.M., C.L. Montague, and E. Chipouras. 1998. Modified transplantations of four submersed macrophyte species throughout two salinity gradient areas in northeastern Florida Bay. Sect. 4, Contr. 9 in

- Proceedings, 1998 Florida Bay Science Conference*, May 12-14, 1998. Florida Bay Program Management Comm. And Florida Sea Grant Consortium, Gainesville. 2 pages.
- 98-01 Anastasiou, C. and C. L. Montague. 1998. Design Parameters and Limitations of a Flow-Through Mesocosm Facility at Key Largo, Florida for Salinity Fluctuation Experiments on Plants. Sec. 4, Contr. 1 *in Proceedings, 1998 Florida Bay Science Conference*, May 12-14, 1998. Florida Bay Program Management Comm. And Florida Sea Grant Consortium, Gainesville. 3 pages.
- 92-01 Mehta, A. J. and C. L. Montague. 1992. Management of sandy inlets: coastal and environmental engineering imperatives. Pages 628-642 *in Coastal Zone 91*, Volume 1, O. T. Magoon (ed.). Proceedings of the Seventh Symposium on Coastal and Ocean Management. American Society of Civil Engineers, New York.
- 87-03 Montague, C.L., A.V. Zale, and H.F. Percival. 1987. The nature of export from fringing marshes, with reference to the production of estuarine animals and the effect of impoundments. Pages 437-450 *in Waterfowl and Wetlands Symposium*, W.R. Whitman and W.H. Meredith (eds.). Proc. symp. waterfowl and wetlands management in the coastal zone of the Atlantic flyway. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover.
- 87-02 Percival, H.F., C.L. Montague, and A.V. Zale. 1987. A summary of positive and negative aspects of coastal wetland impoundments as habitat for waterfowl. Pages 223-230 *in Waterfowl and Wetlands Symposium*, W.R. Whitman and W.H. Meredith (eds.). Proc. symp. waterfowl and wetlands management in the coastal zone of the Atlantic flyway. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover.
- 87-01 Zale, A.V., C.L. Montague, and H.F. Percival. 1987. A synthesis of potential effects of coastal impoundments on the production of estuarine fish and shellfish and some management options. Pages 424-426a *in Waterfowl and Wetlands Symposium*, W.R. Whitman and W.H. Meredith (eds.). Proc. symp. waterfowl and wetlands management in the coastal zone of the Atlantic flyway. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover.
- 86-01 Paulic, M., C.L. Montague, and A.J. Mehta. 1986. Influence of light on sediment erodibility. Pages 1758-1764 *in Proceedings of the Third International Symposium on River Sedimentation* (1822 pp.), S.Y. Wang, H.W. Shen, and L.Z. Ding (eds.). School of Engineering, University of Mississippi.

### **Major Research Reports**

- 15-01 Virnstein, Robert W., and Clay L. Montague. Chapter 1. A Conceptual Economic Model of the St. Johns River. Pages 7-34 in Hackney, C. T. (Ed.) , *St Johns River Economic Study*. Report submitted to the St. Johns River Water Management District, Palatka, Florida, under contract #27884, January 2015.
- 12-02 Fox, S., P. Kinsler, L. Keenan, F. Baird, with W. Wise, and C. Montague. Chapter 11. Benthic Macroinvertebrates, Appendix 11.E Comparison of FULL1995NN and FULL2013PN Scenarios in the Benthic Sampling Area of Lake Pointsett. 32 pages in E.F. Lowe, L.E. Battoe, H. Wilkening, M. Cullum, and T. Bartol (eds.), *St Johns Water Supply Impact Study*. Technical Publ. SJ2012-1, St Johns River Water Management District, Palatka, Florida. 2012
- 12-01 Kinsler, P., S. Fox, L. Keenan, A. Ceric, F. Baird, P. Sucusy, W. Wise, and C.L. Montague. Chapter 10. Wetland Vegetation. 128 pages in E.F. Lowe, L.E. Battoe, H. Wilkening, M. Cullum, and T. Bartol (eds.), *St Johns Water Supply Impact Study*. Technical Publ. SJ2012-1, St Johns River Water Management District, Palatka, Florida. 2012.
- 03-02 Montague, C.L., and B.L. Henley. Nutrient Dynamics of Submerged Aquatic Vegetation in the Indian River Lagoon, Florida Final Report Contract #96W323 Tasks 6.8 and 6.10 (UF SAMAS Account Number 4910 4510 502 12) prepared for the St. Johns River Water Management District, 25 April 2003.
- 03-01 Montague, C.L., and T.C. Chesnes. Environmental Design of Beach Nourishment Projects in Florida. A Report of CETAC Workshop #3 Held at Tallahassee, Florida, 15-16 November 2001, Coastal Engineering Technical Advisory Committee (CETAC), Bureau of Beaches and Wetland Resources, Florida Department of Environmental Protection, Tallahassee Florida, 14 March 2003 (UF SAMAS 4910 4510 618 12).
- 02-04 Stevens, P.W., (C.L. Montague PI and Major Advisor). Consumption and migration of fish biomass from a seasonally flooded salt marsh with artificial boundaries and connections. Ph.D. Dissertation, University of Florida, and Final report to the United States Geological Survey, Biological Resources Division, Florida and Caribbean Fisheries Science Center, Gainesville, Florida, July 2002. (UF SAMAS 4910 4510 625 12).
- 02-03 Fox, S.L., and C.L. Montague. Comparative Evaluation of Physical and Biological Habitat Parameters at the Mouths of Open and Closed Tidal Creeks. Final Report for Project TIMU-N-028, Data, and Analyses. National Park Service



- via United States Geological Survey, Biological Resources Division, Florida and Caribbean Fisheries Science Center, Gainesville, Florida, 17 September 2002. (UF SAMAS 4910 4510 517 12).
- 02-02 Steinway-Rodkin, C.M., and C.L. Montague. Characterization and Mapping of Tidal Wetlands in the Timucuan Ecological and Historic Preserve. Final Report, Project Statement TIMU-N-103.000 (10 February 1999 update), Task Order Number 99-01 of the U.S. Department of the Interior's Cooperative Agreement (5280-9-9035) for the Timucuan Ecological and Historic Preserve, Jacksonville, Florida, Submitted 31 May 2002 (University of Florida SAMAS Number 4910 45109 539 12).
- 02-01 Odum, H.T., M.T. Brown, and C.L. Montague. Annual Report, Center for Environmental Policy, University of Florida, Gainesville. 16 May 2002.
- 00-01 Chesnes, T.C., C.C. Anastasiou, and C.L. Montague. Final mesocosm facility and quality assessment report. Contract No. C-E6612 of the South Florida Water Management District. 2000.
- 99-02 Montague, C.L. Year two final report: Alternative models of ecological effects of changes in freshwater inflow to Apalachicola Bay. Northwest Florida Water Management District. 1999.
- 99-01 Montague, C.L., E. Chipouras and L. Jones. Responses of submerged macrophytes to fresh water inflow to Florida Bay: Final Field Studies Research Progress Report. Contract No. C-E6612 of the South Florida Water Management District. 149 pp. 1999.
- 98-01 Edelstein, R.L., and C.L. Montague. A model of the ecological effects of changes in freshwater inflow to Apalachicola Bay: Ecosystem model information synthesis. Northwest Florida Water Management District. 1998.
- 97-02 Montague, C.L. and J. McLachlan-Karr. Report of Biological Monitoring for the Mid-Town Beach Nourishment Project, Town of Palm Beach, Part III. One year after post-construction phase. Final Report to the Town of Palm Beach. 32 pages. 1997.
- 97-01 Fox, S.L. and C.L. Montague. Age-dating sediments in Rose Bay, Volusia County, Florida. Final Report to the St Johns River Water Management District. 106 pages. 1997.
- 96-02 C.L. Montague and J. McLachlan-Karr. Report of biological monitoring for the mid-town nourishment project, Town of Palm Beach: Pre-construction phase. 22 pages. 16 May 1996.
- 96-01 C.L. Montague and J. McLachlan-Karr. Report of biological monitoring for the mid-town nourishment project, Town of Palm Beach: Pre-construction phase. 23 pages. 29 March (modified 16 May) 1996.
- 95-01 Montague, C.L. Recommendations for future nourishment at Gulf Islands National Seashore, Perdido Key, Florida: An ecological engineering challenge. Final Report to the Department of the Navy, Southern Division, Naval Facilities Engineering Command, Charleston, SC 29411-0068. 19 pages. January 1995.
- 94-01 Montague, C.L., S.V. Colwell, H.F. Percival, and J.F. Gottgens. Issues and options related to management of Silver Springs rhesus macaques. Florida Cooperative Fish and Wildlife Research Unit, U. S. Biol. Survey. Tech. Rep. 49. 34 pages. January 1994.
- 93-01 Brown, M.T., R.D. Woithe, C.L. Montague, H.T. Odum, and E.C. Odum. Emergency analysis perspectives of the Exxon Valdez oil spill in Prince William Sound, Alaska. Report to the Cousteau Society, Contract No. 49105719456-12. Publication No. 93-01, Center for Wetlands and Water Resources, University of Florida, Gainesville; 114 pages. January 1993.
- 92-02 Montague, C.L. A preliminary ecosystem synthesis for beach management at Perdido Key, Florida. Report to the Department of the Navy, Southern Division, Naval Facilities Engineering Command, Charleston, SC. July 21, 1992.
- 92-01 Mehta, A.J., C. L. Montague, and R. J. Thieke. Erosion, navigation and sedimentation imperatives at Jupiter Inlet, Florida: recommendations for coastal engineering management. Final Report, Contract No. C89-002, Jupiter Inlet District Commission, Jupiter, Florida. Report No. UFL/COEL-92/002. Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida. 214 pages. July 1992.
- 91-05 Mehta, A. J., and C. L. Montague. A brief review of flow circulation in the vicinity of natural and jettied inlets: tentative observations on implications for larval transport at Oregon Inlet, NC. Report No. UFL/COEL-MP/3, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida. 73 pages. December 1991.
- 91-04 Mehta, A. J., T. M. Parchure, C. L. Montague, R. J. Thieke, E. J. Hayter, and R. B. Krone. Tidal inlet management at Jupiter Inlet: fourth progress report. Report No. UFL/COEL-91/008, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida. 238 pages. 1991.
- 91-03 Mehta, A. J., C. L. Montague, and R. J. Thieke. Tidal inlet management at Jupiter Inlet: oral presentation summary. Report No. UFL/COEL-91/CR-91/01, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida. 55 pages. 1991.
- 91-02 Montague, Clay L. Ecological considerations for determining the use of oil-spill dispersants in Florida's coastal zone: a complex optimization problem. Paper submitted to the Oil Spill Dispersant Workshop, Center for Solid and Hazardous Waste Management, Gainesville, Florida; 6 pages. April 25, 1991.

- 91-01 Mehta, A.J., C.L. Montague, R. J. Thieke, L. H. Lin, and E. J. Hayter. Tidal inlet management at Jupiter Inlet: third progress report. Report No. UFL/COEL-91/002, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida; 132 pages. 1991.
- 90-02 Mehta, A.J., C.L. Montague, R. J. Thieke, and R. W. Faas. Tidal inlet management at Jupiter Inlet: second progress report. Report No. UFL/COEL-90/010, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida. 79 pp. 1990.
- 90-01 Mehta, A.J., C.L. Montague, and T.M. Parchure. Tidal management at Jupiter Inlet, Florida. I. Considerations on navigation, beach erosion and ecological imperatives; II. Review of literature and data. Report to the Jupiter Inlet District Commission, Jupiter, Florida. University of Florida Coastal and Oceanographic Engineering Report No. UFL/COEL-90/005; 328 pages. April, 1990.
- 89-02 Mehta, A.J., R.M. Cushman, R.G. Dean, C.L. Montague, and W.R. Dally. Workshop on sea level rise and coastal processes. DOE/NBB-0086. U.S. Department of Energy, Washington, D.C., 1989; 289 pp.
- 89-01 Montague, C.L., R.D. Bartleson, and J.A. Ley. Assessment of benthic communities along salinity gradients in northeastern Florida Bay. Final report to the South Florida Research Center, Everglades National Park, August 1989; 186 pp.
- 88-02 Gottgens, J.F., and C.L. Montague. Categorized Bibliography of the Paynes Prairie Basin, Florida. Prepared for St. Johns River Water Management District, Project # 15-200-33, September 1988, 30 pp.
- 88-01 Gottgens, J.F., and C.L. Montague. Comprehensive Reconnaissance profile of the Paynes Prairie Basin, Florida. Prepared for St. Johns River Water Management District, Project # 15-200-33, September 1988, 60 pp.
- 87-02 Mehta, A.J., R.G. Dean, W.R. Dally, and C.L. Montague. Some considerations on coastal processes relevant to sea level rise. Oak Ridge National Laboratory, Oak Ridge, Tennessee. UFL/COEL-87/012, 1987; 177 pages.
- 87-01 Gottgens, J.F., and C.L. Montague. Orange, Lochloosa, and Newnans Lakes: a survey and interpretation of environmental research data. Final Report, Project # 15-200-33, St. Johns River Water Management District, September 1987; 2 Vols, 145 pages.
- 85-03 Montague, C.L., A.V. Zale, and H.F. Percival. A conceptual model of salt marsh management on Merritt Island, Florida. Tech. Rep. No. 17, Fla. Coop. Fish Wildl. Research Unit, 117 Newins-Ziegler Hall, University of Florida, Gainesville, FL 32611, 1985; 92 pp.
- 85-02 Bitton, G., S.R. Farrah, C.L. Montague, M.W. Binford, P.R. Scheuerman, and A. Watson. Survey of Virus Isolation Data from Environmental Samples. Final Report, U.S. Environmental Protection Agency, Health Effects Research Laboratory, Cincinnati, Ohio. Contract No. 68-03-3196, Elmer Akin, Project Officer, 1985; 171 pages.
- 85-01 Paulic, M., C.L. Montague, A.J. Mehta, and P.Y. Maa. Influence of microbial films on the stability of muddy sediments. Final Report, Project No. IR-84-25, Florida Sea Grant College, 31 March 1985; 27 pages.
- 84-03 Montague, C.L., A.V. Zale, and H.F. Percival. Photographic analysis of natural and impounded salt marsh in the vicinity of Merritt Island, Florida. Tech. Rep. No. 11, Fla. Coop. Fish Wildl. Research Unit, 117 Newins-Ziegler Hall, University of Florida, Gainesville, FL 32611, 1984; 23 pp.
- 84-02 Montague, C.L., A.V. Zale, H.F. Percival, and T. Hingtgen. A categorized bibliography for a conceptual model of salt marsh management on Merritt Island, Florida. Tech. Rep. No. 9, Fla. Coop. Fish Wildl. Research Unit, 117 Newins-Ziegler Hall, University of Florida, Gainesville, FL 32611, 1984; 98 pp.
- 84-01 Zale, A.V., C.L. Montague, H.F. Percival, and T. Hingtgen. Impounded coastal wetlands of the Atlantic coast of the southeastern United States: A categorized bibliography. Tech. Rep. No. 8, Fla. Coop. Fish Wildl. Research Unit, 117 Newins-Ziegler Hall, University of Florida, Gainesville, FL 32611, 1984; 93 pp.
- 83-01 Maturo, F.J., C.L. Montague, G.R. Best and J.W. Caldwell. Design of a data collection program to determine existing biological conditions in the estuarine areas of the Withlacoochee and Coastal Rivers system. Final Report to the Southwest Florida Water Management District, 16 May 1983; 27 pages.
- 81-01 Montague, C.L., J.W. Caldwell, and R.L. Knight. Record of metabolism of estuarine ecosystems at Crystal River, Florida, 1977-1980. Final Annual Report to the Florida Power Corporation, Contract No. QEA- 000045. Systems Ecology and Energy Analysis Group, University of Florida, Gainesville, 1981; 325 pages.

## EXTRAMURAL GRANTS AND CONTRACTS

- 01-04 (625) Export of fish production from an impounded salt marsh within Merritt Island National Wildlife Refuge, Florida. \$51,428 from the US Department of Interior, US Geological Survey, Biological Resources Division, C.L. Montague, Principal Investigator, Aug 2001 – Oct 2003 (1 graduate student).
- 01-03 (618) Environmental Beach Renourishment in Florida: A Workshop. \$25,000 from the Florida Department of Environmental Protection, Office of Beaches and Coastal Systems, CL Montague, Principal Investigator, 2001-2003.
- 01-02 (611) National Estuarine Research Reserve Graduate Research Fellowship Program. \$75,000 from US Department of Commerce, NOAA, National Estuarine Research Reserves, C.L. Montague, Principal Investigator, 1 Jun 2001 – 31 May 2004 (1 graduate student).

- 01-01 (598) Dynamics of tidal marsh plant communities. \$14,000 from the US Geological Survey, Water Resources Research Institute, CL Montague, Principal Investigator, Mar 2001-Feb 2004.
- 00-02 (583) Modeling portion of CLMMRS: Clam lease assessment, management, and modeling using remote sensing. \$120,000 from the US Department of Agriculture, C.L. Montague, Principal Investigator Sep 2000 – Aug 2005 (1 graduate student).
- 00-01 (566) Sedimentation study of the Loxahatchee River Estuary. \$4,200 from the Jupiter Inlet District, Jupiter, Florida, C.L. Montague, Principal Investigator (with A.J. Mehta). 2000-2001.
- 99-01 (539) Characterization and mapping of tidal wetlands in Timucuan Ecological and Historic Preserve. \$40,000 from the National Park Service, C.L. Montague, Principal Investigator, 15 Aug 1999 - 14 Feb 2004 (10%, 1 graduate student).
- 98-01 (517) Comparative evaluation of physical and biological habitat parameters at the mouths of open and closed tidal creeks in the Timucuan Preserve. \$11,400 from the Biological Resources Div., U.S. Geological Survey, C.L. Montague, Principal Investigator, Jun 1998-May 1999 (1%, 1 graduate student).
- 97-01 (502) Nutrient demand by drift algae and seagrasses in Indian River Lagoon. \$99,210 from the St Johns River Water Management District, C.L. Montague, Principal Investigator, Jun 1997-Jan 1999 (10%, 1 graduate student).
- 96-01 (481) A model of the ecological effects of changes in freshwater inflow to Apalachicola Bay \$120,000 from the Northwest Florida Water Management District. C.L. Montague, Principal Investigator, Nov 1996-Oct 1998 (10%, 1 graduate student).
- 95-03 Biological monitoring for the mid-town beach nourishment project. \$36,000 from the Town of Palm Beach, Florida to the University of Florida, Robert G. Dean and Clay L. Montague, Principal Investigators, November 1995 - January 1996 (involved 5% as Co-PI, 1 field technician supported).
- 95-02 Responses of submersed macrophytes to freshwater inflow into northern Florida Bay. \$564,500 from South Florida Water Management District to the University of Florida, C.L. Montague, Principal Investigator; August 1995-July 1998 (involved 25% time as PI, 1 post-doc, 2 grad students, 1 technician supported).
- 95-01 Dating Rose Bay Sediments. \$4700 from the Halifax River Task Force, St John's River Water Management District to the University of Florida, C.L. Montague, Principal Investigator; August 1995-June 1996 (involved 5% as PI, 1 grad student supported).
- 93-02 Issues and options related to the management of Silver Springs Rhesus macaques. \$15,750 from Florida Game and Freshwater Fish Commission to the University of Florida, through the U.S. Fish and Wildlife Service, Cooperative Research Unit, 1993. Franklin Percival, Principal Investigator (involved 10% as de facto Principal Investigator, employed 1 full-time wildlife ecologist, 1 part-time student assistant).
- 93-01 Influence of ecosystem and toxicant characteristics on the stress response and on the recovery time of ecosystems. Sfr 140,500, from Swiss Federal Institute for Environmental Science and Technology (EAWAG) to the Ecotoxicology Group, EAWAG, 1993-1996. R. Behra, T. Bosma, G.P. Genoni, and C.L. Montague, Co-principal Investigators (involved 2% as research-team modeler).
- 92-01 Environmental monitoring program, Perdido Key, Florida. \$452,569 from United States Department of the Navy to Coastal and Oceanographic Engineering Department, University of Florida, October, 1989 -1994. R.G. Dean, Principal Investigator (involved 13% for half summer salary 1992, 1993, 1994 as systems ecologist).
- 90-01 A Comprehensive Management Plan for the Loxahatchee River and Jupiter Inlet East of the FEC Railroad Bridge. \$207,891 from the Jupiter Inlet District to the Departments of Coastal Engineering and Environmental Engineering, University of Florida, Jan 5, 1990 - November 4, 1991. A.J. Mehta, C.L. Montague, R.G. Dean, and H. Wang, Co-principal Investigators (involved 20% as estuarine ecologist, 3 students supported).
- 89-01 Influence of Changes in Fresh-water Flow to NE Florida Bay on Use of Mangrove Prop-root Habitat by Fish. \$9000 from U.S. Department of Commerce, Sea Grant, May 1989 - Jan 1990. (Involved 10% as PI, 1 student supported).
- 88-01 Influence of Changes in Freshwater Flow to Northeast Florida Bay on Use of Mangrove Prop Root Habitat by Fish. \$81,609 from the South Florida Water Management District, 15 September 1988 - 1 December 1991. (Involved 10% as PI, 1 student supported).
- 87-01 Orange, Lochloosa, and Newnan's Lakes: A survey and Interpretation of Environmental Research Data, with Paynes Prairie Addendum. \$23, 751 from St. Johns River Water Management District, Oct 87 - Jul 88. (Involved 10% as PI, 1 student supported).
- 86-02 Assessment of Benthic Communities of Northeast Florida Bay. \$197,143 from South Florida Water Management District in cooperation with the Everglades National Park, March 1986 - Sep 1989. (Involved 20% as PI, 4 students supported).
- 86-01 Development and Application of a Habitat Succession Model for the Wetland Complex of the Savannah National Wildlife Refuge. \$10,336 from US Fish and Wildlife Service, Jan 86 - Dec 87. (Involved 15% as PI, 1 student supported).

- 85-01 The Ecology and Management of Impounded Coastal Wetlands of the Georgia Bight: A Workshop. \$2,000 from US Fish and Wildlife Service, Jul 85 - Sep 85. (Involved 8% as PI).
- 85-01 Multi-purpose Management of Mosquito Control Impoundments in Coastal Areas of Florida (J.P. Heaney, PI). \$29,373 from Sea Grant, Jun 85 - Jun 86. (Involved 20% as Co-PI, 2 students supported).
- 84-03 Influence of Microbial Films on the Stability of Muddy Sediments. \$9,980 from Florida Sea Grant, Sep 84 - Mar 85. (Involved 8% as PI, 2 students supported).
- 84-02 The Ecology and Management of Impounded Coastal Wetlands of the Georgia Bight: A Community Profile. \$21,000 from US Fish and Wildlife Service, Jun 84 - Oct 85. (Involved 13% as PI, 2 students supported).
- 84-01 A Conceptual Model of Salt Marsh Management on Merritt Island, Florida. \$21,196 from US Fish and Wildlife Service and NASA, May 84 - May 85. (Involved 15% as PI, 2 students supported).
- 83-01 Survey of Virus Isolation Data from Environmental Samples (G. Bitton, PI). \$38,664 from US EPA, Oct 83 - Jan 85. (Involved 10% as Co-PI, 3 students supported).
- 82-01 Summary Report on Metabolism of Marsh and Bays at Crystal River. \$6,400 from Florida Power Corporation, Jan 82 - May 82. (Involved 2% as PI, 1 student supported).
- 81-01 Low-energy Wastewater Recycling through Wetland Ecosystems: Apalachicola Study--Experimental Use of a Freshwater Shrub Swamp. (G.R. Best, PI). \$105,752 from Fla. Dept. of Envir. Regul., Nov 81 - Oct 85. (Involved 5% as Co-PI, 5 students supported).
- 80-01 Annual Record of Metabolism of Estuarine Ecosystems at Crystal River, Florida (Year 4) (H.T. Odum, PI). \$126,782 from Florida Power Corporation, Apr 80 - Apr 81. (Involved 52% as Co-PI after Jul 80, 5 students supported).

## GRADUATE STUDENTS DIRECTED

### Graduated

- 2014 Baker, John. Ecological characteristics of spoil islands along the Atlantic Intracoastal Waterway and their potential to support maritime forest communities. PhD Dissertation. 162 pages.
- 2012 Smith, Kathryn E.L. Paleocological study of coastal marsh in the Chenier Plain, Louisiana: Investigating the diatom composition of hurricane-deposited sediments and a diatom-based quantitative reconstruction of sea-level characteristics. PhD. Dissertation. 203 pages.
- 2003 Henley, Brian. Nutrient uptake and release by seagrass, seagrass epiphytes, and drift algae in Indian River Lagoon, Florida: Results from experiments and their validity when used in the IRLSAV model. MS.
- 2002 Bossart, John M. The tidal freshwater-oligohaline marsh interface as an indicator of long-term environmental change in the upper Savannah River Estuary. PhD. Dissertation, 284 pages.
- 2002 Stevens, Philip. Test of salt marsh as a site of production and export of fish biomass with implications for impoundment management and restoration. Ph.D. Dissertation, 210 pages.
- 2002 Cai, Tingting. Testing the maximum power principle using microcosms. PhD.
- 2002 Chesnes, Tom. Effects of salinity fluctuation on the survival, acclimation, and growth of submerged vegetation in Florida Bay: Results of direct manipulation of fluctuation. Ph.D.
- 2001 Paznak, Elizabeth. The interaction of gopher tortoises with feral spiny-tailed iguanas and its effect on house invasions by iguanas on Boca Grande Key, Florida. MS.
- 2001 Freidin, Brian. Oyster reefs as an environmental indicator of ecosystem health. MS (non-thesis).
- 2000 Irvin, Cynthia. An energy analysis of the Guana-Tolomato-Matanzas National Estuarine Research Reserve to explore its relation to the surrounding coastal zone. MS.
- 2000 Riley, Lance. Tidally induced changes in phytoplankton composition in waters stilled by a causeway in the Timucuan Ecological and Historic Preserve, Duval County, Florida. MS.
- 2000 Waller, Charles. Potential effect of salt marshes on estuarine water quality in the St Johns River, Florida. MS.
- 1999 Anastasiou, Christos C. Design and development of a facility to accommodate salinity fluctuation experiments. MS.
- 1999 Bahk, Benjamin M. Succession of ichthyofauna in a constructed tidal creek salt marsh in Cockroach Bay, Florida. MS.
- 1999 Chesnes, Thomas C. Responses of fouling communities to habitats of varying salinity in the northern land margin of Florida Bay. MS.
- 1999 Graham, Hugh R. A study of the potential for contaminant sorption and movement of accumulated sediment in two impounded creeks if they are reopened in the Timucuan Ecological and Historic Preserve, Duval County, Florida. MS.
- 1999 Howington de Haberkorn, Tonya. A spatial analysis of emergy of an internationally shared drainage basin and the implications for policy decisions. PhD.
- 1999 Jones, Linda. Salinity change effects on four transplanted aquatic macrophytes in North-central Florida Bay. MS.
- 1999 Stevens, Philip. The vacillation between saltmarsh and mangrove communities at the transition between temperate and subtropical climate in Florida. MS.
- 1998 Gliedman, Philip. Effect of salinity fluctuation in northeastern Florida Bay on gross primary productivity; productivity calculated from dissolved oxygen measurements. MS.

- 1997 Pillai, Ranjit. Understanding groundwater flow in a ditched salt marsh system using an analytical and numerical model. ME.
- 1997 Mohan, Vasu. Ship ballast water: Its role as a vector for the transportation of non-indigenous marine organisms, and its ecological and economic implications. ME.
- 1996 Leverette, Jennifer. Nitrogen limitation in the Suwannee River Estuary. MS.
- 1995 Edelstein, Robert. Effects of the herbicide Atrazine on atmospheric carbon dioxide exchanges with macrophyte dominated freshwater microcosms: The effects of system complexity on resistance and resilience. MS.
- 1993 Zengel, Scott. Juvenile and forage fish species assemblages in different zones of a shallow nearshore seagrass meadow. MS.
- 1993 Fears, Scott. The role of salinity fluctuation in determining seagrass distribution and species composition. MS.
- 1992 Gottgens, Johan F. Quantitative impacts of lake-level stabilization on sediment and nutrient dynamics: coupling limnology with modeling. PhD.
- 1992 Ley, Janet A. Influence of changes in freshwater flow on the use of mangrove prop root habitat by fishes. PhD.
- 1992 Woithe, Robert D. Emergy analysis of the T/V Exxon Valdez oil spill and alternatives for oil spill prevention. MS.
- 1988 Rodolfo T. Arrieta. An introduction to optimality in biological systems. MS.
- 1988 Richard D. Bartleson. The relative influence of current reduction by seagrasses on sediment nutrients and seagrass growth in high and low nutrient waters: a simulation model and field observations. MS.
- 1987 John C. Higman. Influences of alternate presence and absence of bird rookeries on a wetland at Mack's Island, Okefenokee Swamp, Georgia. MS.
- 1986 Douglas H. Keesecker. A nitrogen budget model to assess the effect of disposal of municipal wastewater in salt marshes on light penetration in Tampa Bay. MS.
- 1986 Arthur M. Watson. Nutrient production relations at Seahorse Key Lagoon, Florida: some consequences of shorebird accumulations. MS.

## UNIVERSITY SCHOLARS AND SENIOR HONORS PROJECTS DIRECTED

- 2000 Kristen Herzog. Analysis of temporal variations in an open and a closed tidal creek in the Timucuan Ecological and Historic Preserve. University Scholar. 1999-2000. Department of Environmental Engineering Sciences, University of Florida.
- 1995 Phil Stevens. Interaction of mangroves and saltmarsh vegetation during mangrove recovery after freeze damage in the Cedar Keys National Wildlife Refuge. Department of Zoology, University of Florida.
- 1994 Jennifer C. Jones. The influence of the configuration of drainage systems on fish abundance in salt marshes: a test of system complexity behind a given access. Interdisciplinary Studies Program, University of Florida.
- 1984 Wesley E. Bolch. Hybrid computer modeling. Department of Environmental Engineering Sciences, University of Florida.

## CONFERENCE PRESENTATIONS AND INVITED LECTURES

Invited (I), Contributed (C), \*Graduate Student, \*\*Presenter if not the senior author

- 13-01 Montague, Clay L. and Fred Voigt, Jr. Potential for estuarine habitat restoration by closing an obsolete navigation cut: Noyes Cut, Satilla River estuary, southeastern Georgia. Spring 2013 meeting of the Southeastern Estuarine Research Society, Charleston, SC 17-19 April 2013. (C)
- 12-04 Sandra Fox\*, Palmer Kinser, Lawrence Keenan, Fay Baird, William Wise and Clay Montague. Integrated GIS Model for Evaluating Surface Water Withdrawal Impacts on Wetlands. Ninth INTECOL International Wetlands Conference, Wetlands in a Complex World, Orlando, Florida, June 3-8, 2012. (C)
- 12-03 Sandra Fox\*, Palmer Kinser, Lawrence Keenan, Debra Hydorn, William Wise and Clay Montague. Wetlands Correction Factors for LiDAR Digital Elevation Models. Ninth INTECOL International Wetlands Conference, Wetlands in a Complex World, Orlando, Florida, June 3-8, 2012. (C)
- 12-02 Sandra Fox\*, Palmer Kinser, Lawrence Keenan, William Wise, Clay Montague, Fay Baird. Modeling Surface Water Withdrawal Impacts on Wetlands in the Upper St. Johns River Basin. Session 23, The 2012 AWRA Spring Specialty Conference: GIS & Water Resources VII, New Orleans, Louisiana, March 26-28, 2012.
- 12-01 Sandra Fox\*, Palmer Kinser, Lawrence Keenan, William Wise, Clay Montague, Debra Hydorn. Wetlands Correction Factors for LiDAR Digital Elevation Models. Session 27, The 2012 AWRA Spring Specialty Conference: GIS & Water Resources VII, New Orleans, Louisiana, March 26-28, 2012.
- 11-06 Fox, S.\*, et al. Title accepted for presentation at the 2011 Biennial International Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 Nov 2011.
- 11-05 Fox, S.\*, P. Kinser, L. Keenan, F. Baird, W. Wise, and Clay L. Montague. Assessing the Riverine Contribution to Wetlands Hydrology in the Upper St. Johns River Basin: A GIS Approach. Spring 2011 Environmental Sciences Seminar Series, St Johns River Water Management District, Palatka, Florida, 26 May 2011. (I)

- 11-04 Fox, S.\*, L. Keenan, P. Kinser, Clay L. Montague, and W. Wise. A GIS tool to assess the riverine contribution to wetlands hydrology in the Upper St. Johns River Basin. ESRI Southeast Regional User Group Conference, Jacksonville, Florida, 2-4 May 2011. (C)
- 11-03 Fox, S.\*, L. Keenan, P. Kinser, Clay L. Montague, and W. Wise. Developing Wetlands Correction Factors for LiDAR-derived "Bare Earth" Digital Elevation Models. 2011 ESRI Southeast Regional User Group Conference, Jacksonville, Florida 2-4 May 2011. (C)
- 11-02 Fox, S.\*, L. Keenan, P. Kinser, Clay L. Montague, and W. Wise. Dense wetland vegetation, standing water and LiDAR: "If you can't see your feet, LiDAR can't hit the ground" and other things you need to know about elevation data. Spring 2011 Environmental Sciences Seminar Series, St Johns River Water Management District, Palatka, Florida, 14 Apr 2011. (I)
- 11-01 Fox, S.\*, P. Kinser, L. Keenan, Clay L. Montague\*\*, and W. Wise. Correcting a LiDAR-Derived DEM for Error Due to Dense Wetland Vegetation. Poster presentation at the Spring 2011 Meeting of the Southeastern Estuarine Research Society, Athens, Georgia, 16-18 Mar 2011. (C)
- 10-04 Kinser, P., Clay L. Montague, S. Fox\*, and K. Riddick. Vegetation Changes along a Gradient of Salinity in the Ortega River of Northeast Florida. December 2010 meeting of the Lower St Johns River Technical Advisory Committee, St Augustine, Florida, 8 Dec 2010. (I)
- 10-03 Fox, S.\* P. Kinser, and Clay L. Montague. Developing a wetlands correction factor for LiDAR derived "bare earth" Digital Elevation Models. Fall 2010 Meeting of the Southeastern Estuarine Research Society, St Augustine, Florida, 4-6 Nov 2010. (C)
- 10-02 Kinser, P., Clay L. Montague, S. Fox\*, and K. Riddick. Vegetation Changes along a Gradient of Salinity in the Ortega River of Northeast Florida. Fall 2010 Meeting of the Southeastern Estuarine Research Society, St Augustine, Florida, 4-6 Nov 2010. (C)
- 10-01 Fox, S.\*, S. Bourne, C. Montague, and P. Kinser. Exploration of estuarine salinity patterns using ACES – Analytical Framework for Coastal and Estuarine Study. Spring 2010 Specialty Meeting, American Water Resources Association, Orlando, FL, 29-31 March 2010. (C)
- 09-03 Montague, Clay L. Inlet management practices on Florida's east coast have had a cumulative impact on beach erosion that eliminated dune ecosystems in southeastern Florida. 20th Biennial International Conference of the Coastal and Estuarine Research Federation, Portland, Oregon, 1-5 November 2009.
- 09-02 Montague, Clay L. Cumulative inlet management practices differentially impact beach erosion in southeastern Florida and create an environmental management paradox that threatens sea turtle nesting success more than beach nourishment does. Spring 2009 Meeting of the Southeastern Estuarine Research Society, Conway, South Carolina, 19-21 March 2009. (C)
- 09-01 Fox, S., S. Bourne, C. Montague, and P. Kinser. Building a GIS-Based Analytical Framework for Coastal and Estuarine Study. NOAA Coastal Geotools Conference 2009, Myrtle Beach, South Carolina, 2-5 March 2009.
- 08-03 Fox, S.\*, C. Montague\*\*, S. Bourne, P. Kinser. 2008. Calculating estuarine bulk parameters based upon geomorphology: exploring a "virtual estuary" in GIS. Southeastern Estuarine Research Society, Semiannual Meeting, Nov 13th – 15th 2008, University of Tampa, Tampa, Florida. (C)
- 08-02 Montague, Clay L. An Effect of Salinity Fluctuation on Estuarine Ecosystems: Consequences of Reducing Freshwater Inflow to Estuaries. Invited presentation for the Spring 2008 Environmental Sciences Seminar Series, St Johns River Water Management District, Palatka, Florida. 15 May 2008. (I)
- 08-01 Fox, S. \*; S. Bourne, C. Montague; A. Ceric, and P. Kinser. ACES: Building a GIS-based analytical framework for coastal and estuarine study. Contributed oral presentation at the Spring 2008 Meeting of the Southeastern Estuarine Research Society, Charleston, South Carolina, 13-14 March 2008. (C)
- 07-06 Fox, S\*.; S. Bourne, C. Montague; A. Ceric, and P. Kinser. ACES: Building a GIS-based analytical framework for coastal and estuarine study. Conference, Florida ArcHydro Users Group, Gainesville, Florida, 16 Nov 2007. (I)
- 07-05 Montague, Clay L. Beach Nourishment: An Essential Tool for Sea Turtle Conservation After a Century of Dredging and Jetties. Contributed oral presentation at the 19th Biennial International Estuarine Research Federation Conference, Providence, Rhode Island, 4-8 November 2007. (C)
- 07-04 Bourne, Stephen; Fox, Sandra\*; Sucsy, Peter; Montague, Clay; Ceric, Aisa; Kinser, Palmer. ACES: Building a GIS-based Analytical Framework for Coastal and Estuarine Study. Contributed poster presentation at the 19th Biennial International Estuarine Research Federation Conference, Providence, Rhode Island, 4-8 November 2007. (C)
- 07-03 Fox, Sandra\*; Ceric, Aisa; Bourne, Stephen; Sucsy, Peter; Montague, Clay; Kinser, Palmer. Assessment of Water Quality in the Guana-Tolomato-Matanzas Estuary: A First Application of the ACES Workbench. Contributed poster presentation at the 19th Biennial International Estuarine Research Federation Conference, Providence, Rhode Island, 4-8 November 2007. (C)
- 07-02 Fox, S.\*, Montague, CL; Ceric, A, Kinser, P, and Bourne, S. 2007. ARC HYDRO and the coast in northeast Florida: Extending ARC HYDRO beyond a classic dendritic drainage pattern. Contributed poster presentation at Coastal

- Geotools 07: The Geospatial Technology Conference for Coastal Professionals, NOAA, Coastal Services Center, 5-8 March 2007, Myrtle Beach, South Carolina. (C)
- 07-01 Montague, Clay L. CLAMMRS (Clam lease assessment, management and modeling using remote sensing) model-Simulation of farmed clam growth and survival funded by USDA. Clam Farming Workshop, UF/IFAS, 8 Feb 2007, Cedar Key, Florida. (I)
- 06-06 Montague, Clay L. Interesting behavior from an Energy Systems Language model of the salt marsh. Invited presentation, Systems Ecology Seminar, 31 Aug 2006, University of Florida, Gainesville, Florida. (I)
- 06-05 Montague, Clay L. How much sand is owed to nesting sea turtles on Florida's Atlantic coast?: An Analysis of a Century of Dredging and Nourishment on Florida's Atlantic Coast. Invited presentation to the Environmental Science Seminar Series, St Johns River Water Management District. Palatka, Florida. (I)
- 06-04 Montague, Clay L. Self-generated pulsing dynamics from a saltmarsh simulation model: Inaccurate but suggestive of a general phenomenon. Oral presentation at the Fall 2006 Meeting of the Southeastern Estuarine Research Society, 19-21 Oct 2006, Savannah, Georgia. (C)
- 06-03 Montague, Clay L. How much sand is owed to nesting sea turtles on Florida's Atlantic coast? Oral presentation at the Spring 2006 Meeting of the Southeastern Estuarine Research Society, 30 Mar – 1 Apr, St Augustine, FL. (C)
- 06-02 Montague, Clay L. How much sand is owed to nesting sea turtles on Florida's Atlantic coast?: An Analysis of a Century of Dredging and Nourishment on Florida's Atlantic Coast. Invited presentation to the Coastal Engineering Seminar Series, Department of Civil and Coastal Engineering, University of Florida, Gainesville. 27 Feb 2006. (I)
- 06-01 Montague, Clay L. Analysis of beach nourishment data for Florida's Atlantic Coast for the last century. Plenary oral presentation at the 19<sup>th</sup> Annual National Conference on Beach Preservation Technology, Feb 1-3, 2006, Sarasota, Florida. (I)
- 05-02 Montague, Clay L. Loss of sea turtle nesting beach in Florida caused by dredging. Invited presentation to the graduate seminar in Sea Turtle Biology, Archie Carr Center for Sea Turtle Research, University of Florida, Gainesville. 4 Oct 2005. (I)
- 05-01 Montague, Clay L. Seagrass submodels in spatially explicit hydrodynamic models: Have you seen any results yet? Oral presentation at the Spring 2005 Meeting of the Southeastern Estuarine Research Society, 28 Feb – 2 Mar, Charleston, SC. (C)
- 04-01 Montague, Clay L. Environmental Design of Beach Nourishment Projects in Florida: A Maturing System of Feedback Loops. Contributed oral presentation at the Fall 2004 Meeting of the Southeastern Estuarine Research Society, 14-16 Oct, Wilmington, NC. (C)
- 03-01 Montague, Clay L. A case of animal feedback in salt marshes. University of Georgia Marine Institute's 50<sup>th</sup> Anniversary Conference, Jekyll Island, Georgia, Nov 2003. (I)
- 02-03 Fox, S. and Clay L. Montague. Impact of causeway construction on marsh area using ArcView Spatial Analyst. 22nd Annual ESRI International User Conference, July 8–12, 2002 (C).
- 02-02 Montague, Clay L. (Plenary Speaker). A case of animal feedback in salt marshes: system wide consequences for both saltmarsh biota and saltmarsh models, Coevolution of the physicochemical stage and the biological play in coastal salt marshes: An education and planning workshop, Tallahassee, Florida, 21 April 02, NSF. (I)
- 02-01 Montague, Clay L. (Panelist). Estuarine ecology, Shellfish harvesting and water quality workshop., St Augustine, Florida, 22 March 02, NOAA/ NERR. (I)
- 01-07 Montague, Clay L. (Convener/Speaker). Environmental design of beach nourishment projects in Florida. Coastal Engineering Technical Advisory Committee Workshop #3. Office of Beaches and Coastal Systems, Florida Dept. Environmental Protection. Tallahassee, 15-16 Nov 01. (I).
- 01-06 Stevens, Phil\*, and Clay L. Montague. Production of fish biomass in an impounded salt marsh and its export to adjacent estuarine waters. 16<sup>th</sup> Biennial Conference of the Estuarine Research Federation, St Petersburg, Florida, 4-8 Nov 01. (C).
- 01-05 Chesnes, Tom\*, and Clay L. Montague. The effects of salinity fluctuation on the productivity and osmoregulation of two seagrass species. 16<sup>th</sup> Biennial Conference of the Estuarine Research Federation, St Petersburg, Florida, 4-8 Nov 01. (C).
- 01-04 Fox, Sandra\*, and Clay L. Montague. Interpretation of digitized aerial photographs to determine changes in a salt marsh using GIS. 16<sup>th</sup> Biennial Conference of the Estuarine Research Federation, St Petersburg, Florida, 4-8 Nov 01. (C).
- 01-03 Montague, Clay L. (Plenary Speaker). A common ground for beach nourishment design and environmental protection, Eco-nourishment: 45<sup>th</sup> Annual Conference, Florida Shore and Beach Preservation Association, Duck Key, Florida, 19 Sep 01, FSBPA. (I)
- 01-02 Bossart, John\*, and Clay L. Montague. Secondary succession in the tidal wetlands of the lower Savannah River estuary. 16<sup>th</sup> Biennial Conference of the Estuarine Research Federation, St. Pete Beach, Florida, 4-8 Nov 2001. (C)

- 01-01 Bossart, John\*, and Clay L. Montague. Hydrologic and salinity studies of tidal freshwater marshes of the Savannah National Wildlife Refuge. Semiannual meeting of the Southeastern Estuarine Research Society. Charleston, SC, 29-31 Mar 2001. (C).
- 00-03 Fox, Sandra, and Clay L. Montague. The effect of causeways on the deposition of heavy metals and organic contaminants in sediments within the Timucuan Ecological and Historical Preserve, Duval County, Florida. Semiannual meeting of the Southeastern Estuarine Research Society. Tampa, Florida, 26-28 Oct 2000. (C).
- 00-02 Herzog, Kristen\*, Sandra Fox\*, and Clay L. Montague. A comparative evaluation of physical water quality parameters in two creeks of the Timucuan Ecological and Historic Preserve. Semiannual meeting of the Southeastern Estuarine Research Society. Tampa, Florida, 26-28 Oct 2000. (C).
- 00-01 Montague, Clay L., Sandra Fox\*, and Christine Steinway-Rodkin\*. Timucuan Research at the University of Florida. Invited lecture at the Timucuan Science Report, Kingsley Plantation, Fort George Island, Florida. 22 June 2000. (I)
- 99-06 Montague, Clay L. Opportunities and challenges of the saltmarsh estuary for both sea life and society. Evenings at Whitney Public Lecture Series. University of Florida Whitney Marine Laboratory, Marineland, Florida, 18 November 1999. (I)
- 99-05 Stevens, Phil\*, and Clay L. Montague. The vacillation between salt marsh and mangrove communities at a transition between temperate and subtropical climate. 15<sup>th</sup> Biennial International Conference of the Estuarine Research Federation, New Orleans, Louisiana 25-30 September 1999. (C).
- 99-04 Montague, Clay L. Effect of fluctuating salinity on SAV in experimental tanks. 1. Facility for producing salinity fluctuation. 15<sup>th</sup> Biennial International Conference of the Estuarine Research Federation, New Orleans, Louisiana 25-30 September 1999. (C).
- 99-03 Montague, Clay L., Tom Chesnes\*, Christos Anastasiou\*, and Bridget Coolican. Effect of fluctuating salinity on SAV in experimental tanks. 2. Mesocosm experiments and results. 15<sup>th</sup> Biennial International Conference of the Estuarine Research Federation, New Orleans, Louisiana 25-30 September 1999. (C).
- 99-02 Chipouras, Evan, Linda Jones\*, Tom Chesnes\*, C.J. Regan, and Clay L. Montague. A cladistic analysis of relationships between physical-variable and SAV community patterns in northern Florida Bay. 15<sup>th</sup> Biennial International Conference of the Estuarine Research Federation, New Orleans, Louisiana 25-30 September 1999. (C).
- 99-01 Chipouras, Evan, T. Chesnes\*, B. Coolican, C. Regan, and Clay L. Montague. Relationships between biomass and percent-cover indices of SAV community structure found in land-margin habitats of northern Florida Bay. Spring Meeting of the Southeastern Estuarine Research Society, Jacksonville, Florida, 8-9 April 1999. (C)
- 98-11 Jones, Linda\*, Evan Chipouras, and Clay L. Montague. Modified transplantations of four aquatic macrophyte species for three salinity patterns. Fall Meeting of the Southeastern Estuarine Research Society, Georgetown, South Carolina, 15-17 Oct, 1998. (C)
- 98-10 Chesnes, Tom\*, and Clay L. Montague. Recruitment of fouling organisms in habitats of varying mean salinity and fluctuation in Florida Bay. Fall Meeting of the Southeastern Estuarine Research Society, Georgetown, South Carolina, 15-17 Oct, 1998. (C)
- 98-09 Chesnes, Tom\*, B. Coolican, C. Anastasiou\*, and Clay L. Montague. Responses of seagrasses exposed to extreme salinity fluctuations in a mesocosm facility. Fall Meeting of the Southeastern Estuarine Research Society, Georgetown, South Carolina, 15-17 Oct, 1998. (C)
- 98-08 Montague, Clay L. Coastal resources, processes and uses. Seminar on Coastal Zone Management, University of Florida College of Law, 25 August 1998. (I)
- 98-07 Chipouras, Evan, and Clay L. Montague. Responses of submerged macrophytes to fresh water inflow to Florida Bay: a project overview. 1998 Florida Bay Science Conference, Miami, May 12-14, 1998. (I)
- 98-06 Chipouras, Evan, L. Jones\*, T. Chesnes\*, C. Regan, and Clay L. Montague. 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. 1998 Florida Bay Science Conference, Miami, May 12-14, 1998. (I)
- 98-05 Jones, Linda\*, E. Chipouras, and Clay L. Montague. Modified transplantations of four submersed macrophyte species throughout two salinity gradient areas in northeastern Florida Bay. 1998 Florida Bay Science Conference, Miami, May 12-14, 1998. (I)
- 98-04 Anastasiou, Christos\*, and Clay L. Montague. Design Parameters and Limitations of a Flow-Through Mesocosm Facility at Key Largo, Florida for Salinity Fluctuation Experiments on Plants. 1998 Florida Bay Science Conference, Miami, May 12-14, 1998.(I)
- 98-03 Chipouras, Evan, L. Jones\*, T. Chesnes\*, C Regan, and Clay L. Montague. 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. Spring Meeting of the Southeastern Estuarine Research Society, Athens, Georgia, Mar 26-28, 1998.(C)
- 98-02 Fox, S. \*, L Jones, S Aycock, K Bell, C Blair, C Fillie, T Green, J Kennedy, C Kinnebrew, K Lyttle, S McCarthy, M Palumbo, B Porter, M Snyder, L Zehe, and Clay L. Montague. The search for *Pfiesteria piscicida* in sediments from



- Dunn Creek, St Johns River, FL using a modified bioassay. Spring Meeting of the Southeastern Estuarine Research Society, Athens, Georgia, Mar 26-28, 1998.(C)
- 98-01 Dame, R., M Alber, D Allen, A Chalmers, R Gardner, C Gilman, B Kjerfve, A Lewitus, J Pinckney, N Smith, and Clay L. Montague. Estuaries of the South Atlantic coast of North America: their geographical signatures. Spring Meeting of the Southeastern Estuarine Research Society, Athens, Georgia, Mar 26-28, 1998.(C)
- 97-14 Montague, Clay L., E. Chipouras, L. Jones\*, T. Chesnes\*, and C. Anastasiou\*. An overview of tests of a salinity fluctuation hypothesis that may explain the distribution and abundance of submersed vegetation at the northern land margin of Florida Bay. Estuarine Research Federation International Conference, Providence, Rhode Island, Oct 12-16, 1997. (C)
- 97-13 Anastasiou, Christos\*, and Clay L. Montague. Design parameters and limitations of a flow-through mesocosm facility at Key Largo, Florida for salinity fluctuation experiments on plants. Estuarine Research Federation International Conference, Providence, Rhode Island, Oct 12-16, 1997.(C)
- 97-12 Chesnes, Tom\*, and Clay L. Montague. Distributions of fouling invertebrates in habitats of varying mean salinity and fluctuation in Florida Bay, FL. Estuarine Research Federation International Conference, Providence, Rhode Island, Oct 12-16, 1997.(C)
- 97-11 Chipouras, Evan, L. Jones\*, T. Chesnes\*, and Clay L. Montague. The role of salinity fluctuation in determining the submersed macrophyte community structure of estuarine habitats in northern Florida Bay. Estuarine Research Federation International Conference, Providence, Rhode Island, Oct 12-16, 1997.(C)
- 97-10 Fox, Sandra\*, Ken Sulak, and Clay L. Montague. Comparative physicochemical evaluation of open and causeway-impounded creeks in the Timucuan Estuary, St. Johns River, Duval County, FL. Estuarine Research Federation International Conference, Providence, Rhode Island, Oct 12-16, 1997.(C)
- 97-09 Jones, Linda\*, and Clay L. Montague. Modified transplantations of four submersed macrophyte species throughout two salinity gradient areas in northern Florida Bay. Estuarine Research Federation International Conference, Providence, Rhode Island, Oct 12-16, 1997.(C)
- 97-08 Dame, Richard, J. Pinckney, A. Chalmers, B. Kjerfve, and Clay L. Montague. Estuaries of the southeastern coast of North America: their geographical signatures. Estuarine Research Federation International Conference, Providence, Rhode Island, Oct 12-16, 1997.(I)
- 97-07 Stevens, Philip W. \*, and Clay L. Montague. The natural replacement of salt marsh by a mangrove community on the Cedar Keys, Florida. Annual Conference on Ecosystems Restoration and Creation. Hillsborough Community College, Tampa, Florida. May 15, 1997.(C)
- 97-06 Montague, Clay L. What makes Big Bend salt marshes unique? Oral presentation, Florida Big Bend Coastal Research Workshop: Toward a Scientific Basis for Ecosystem Management. Steinhatchee Landings, Steinhatchee, Florida. May 7, 1997. (I)
- 97-05 Montague, Clay L., E. Chipouras, L.M. Jones\*, T. Chesnes\*, and C. Anastasiou\*. An overview of studies on the ecological effects of salinity fluctuation in northern Florida Bay. Oral presentation, Spring Meeting of the Southeastern Estuarine Research Society, Holiday Isle Resort, Islamorada, Florida, April 12, 1997.(C)
- 97-04 Chipouras, Evan, L.M. Jones\*, and Clay L. Montague. The role of salinity fluctuation in determining the submersed macrophyte community structure of land-margin aquatic habitats in northern Florida Bay. Oral presentation, Spring Meeting of the Southeastern Estuarine Research Society, Holiday Isle Resort, Islamorada, Florida, April 12, 1997.(C)
- 97-03 Fox, Sandra\*, and Clay L. Montague. Age-dating sediments in Rose Bay, Volusia County, Florida. Oral presentation, Spring Meeting of the Southeastern Estuarine Research Society, Holiday Isle Resort, Islamorada, Florida, April 11, 1997.(C)
- 97-02 Jones, Linda M. \*, E. Chipouras, and Clay L. Montague. Translocation of four submersed macrophyte species throughout two salinity gradient areas in northern Florida Bay. Poster presentation, Spring Meeting of the Southeastern Estuarine Research Society, Holiday Isle Resort, Islamorada, Florida, April 10-11, 1997.(C)
- 97-01 Montague, Clay L. The future of coastal Florida. Plenary presentation, Florida 2020: Visions of Our Future, Third Annual Public Interest Environmental Conference, Reitz Union, University of Florida, March 21, 1997. (I)
- 96-05 Montague, Clay L., E. Chipouras and D. Morrison. Response of submerged macrophytes to freshwater inflow in Florida Bay. Oral presentation, 1996 Florida Bay Science Conference, Sheraton Key Largo, Key Largo, Florida. December 11, 1996.(I)
- 96-04 Montague, Clay L. Suggesting land use principles for a sustainable biosphere: What is the estuarine point of view? Oral presentation, Fall Meeting of the Southeastern Estuarine Research Society, Royal Pavilion, Pine Knoll Shores, North Carolina. November 9, 1996. (C)
- 96-03 Montague, Clay L. Can salinity fluctuation explain the distribution of submersed vegetation in northern Florida Bay? Oral presentation, 18<sup>th</sup> Annual Southeastern Phycological Colloquy, Whitney Marine Laboratory, Marineland, Florida. October 26, 1996. (I)

- 96-02 Montague, Clay L. Differences among Florida's salt marshes and possible consequences for their relationship with coastal waters. Oral presentation, Fall Seminar Series, Department of Fisheries and Aquatic Sciences, University of Florida. October 18, 1996. (I)
- 96-01 Stevens, Phil W. \*, and Clay L. Montague. The replacement of salt marsh by a mangrove community on the Cedar Keys, Florida. Presented at the Joint Benthic Ecology Meeting and Spring Meetings of the Southeastern and the Gulf Estuarine Research Societies, Columbia, SC; 8 Mar 1996. (Senior Thesis). (C).
- 95-04 Genoni, Giulio P., and Clay L. Montague. Comportement et toxicité des substances: concepts unificateurs dérivés de l'écologie systémique. 4ème Congrès du Groupe Rhône-Alpin, Pollution et Ecosystèmes (GRAPE), Villeurbanne, France, Nov 21-22, 1995(C).
- 95-03 Montague, Clay L. Salt marshes. Ecosystems of Florida: Conserving and Managing for the Future, Gainesville, Florida, May 17, 1995. (I)
- 95-02 Genoni, Giulio P., and Clay L. Montague. Influence of the energy relationships of trophic levels and of elements on bioaccumulation. Third International Conference on the Biogeochemistry of Trace Elements, Symposium B2, May 17, Paris, France, 1995.(C)
- 95-01 Montague, Clay L. Ecological modeling of Apalachicola Bay: testing management policy in a safe environment. Technical Working Group on Apalachicola River and Bay, Northwest Florida Water Management District, January 31, 1995. (I)
- 94-02 Montague, Clay L. Energy systems overview of a coastal county, Martin Co., Florida. Southeastern Estuarine Research Society, Wilmington, NC, October 27, 1994. (C)
- 94-01 Day, David\*, and Clay L. Montague. A simulation model of *Typha latifolia* growth with above and below ground storages and light competition. 58th Annual Meeting, Florida Academy of Sciences, Tallahassee, March 25, 1994. (C)
- 93-04 Montague, Clay L. Modeling ecological dynamics in aquatic systems. Lake Seminole Water Quality Modeling Workshop, Chattahoochee, Florida. November 8, 1993. (I)
- 93-03 Montague, Clay L. Complex ecological dynamics in a simple micro-ecosystem exposed to a toxin: computer simulation of experimental results. Lake Research Laboratory, Swiss Federal Institute of Environmental Science and Technology (EAWAG), Kastanienbaum, Switzerland. July 7, 1993. (I)
- 93-02 Bossard, Peter, and Clay L. Montague. Primary production in lakes: the independent effect of UV light on the P versus I relationship. Poster presentation at the Sixth International Workshop of the Group for Aquatic Primary Productivity, Saskatoon, Saskatchewan, Canada. June 7-15, 1993.(C)
- 93-01 Montague, Clay L., R. Behra, G. Genoni, H. Guettinger, and R. Ternay-Aegerter. Complex ecological dynamics in a simple micro-ecosystem exposed to a toxin: computer simulation of experimental results. Poster presentation at the First SETAC World Congress, Ecotoxicology and Environmental Chemistry - A Global Perspective, Lisbon, Portugal. March 28-31, 1993. (C)
- 92-10 Montague, Clay L. Influence of salinity fluctuation on the distribution and abundance of seagrasses in Florida. Lake Research Laboratory, Swiss Federal Institute of Environmental Science and Technology (EAWAG). December 2, 1992. (I)
- 92-09 Montague, Clay L. An energy analysis of the Exxon Valdez oil spill in Alaska: assessing the feasibility of oil tanker modifications. Swiss Federal Institute of Environmental Science and Technology, Duebendorf, Switzerland. November 13, 1992. (I)
- 92-08 Montague, Clay L. Ecological aspects of inlet management: an overview. Session 4, Workshop on Beach-Inlet Interaction, with Special Reference to Florida's Southeast Coast Tidal Entrances, U.S. Army Corps of Engineers, Jacksonville, Florida. October 26-28, 1992.
- 92-07 Montague, Clay L. How much does inlet management affect fish recruitment to estuaries? Some quasi-quantitative speculation. Fall Meeting of the Southeastern Estuarine Research Society, Marineland, Florida. October 22, 1992. (C)
- 92-05 Montague, Clay L. Salt marshes in Florida: environmental issues. U.S. Fish and Wildlife Service, National Fisheries Research Center, Gainesville, Florida. March 20, 1992. (I)
- 92-04 Montague, Clay L. Influence of inlet alterations on seagrass ecosystems: some simple design considerations. Fifth Annual National Conference on Beach Preservation Technology, St. Petersburg, Florida. February 12-14, 1992. (C)
- 92-03 Montague, Clay L. Modelos ecologicos usando plantas acuaticas. Universidad Simon Bolivar, Baruta, Venezuela. January 29, 1992. (I)
- 92-02 Montague, Clay L. Impacto ecologico del derrame del Exxon Valdez. Conferencia Magistral, INTEVEP, Centro de Investigacion y Apoyo Tecnologico, Filial de Petroleos de Venezuela, S.A. Los Teques, Venezuela. Jan. 28, 1992. (I)
- 92-01 Montague, Clay L. Energy analysis and a simplified structure for determining environmental damage fees charged to polluters of coastal waters. INTEVEP, Centro de Investigacion y Apoyo Tecnologico, Filial de Petroleos de Venezuela, Los Teques, Venezuela. Jan. 27, 1992. (I)
- 91-13 Montague, Clay L. Environmental considerations for tidal inlet management: Jupiter, Florida. Environmental Engineering Seminar Series, University of Florida, Gainesville. December 2, 1991. (I)

- 91-12 Montague, Clay L. Implications of tidal inlet management for nesting sea turtles. Biennial International Estuarine Research Conference. San Francisco, California. November 10-15, 1991. (C)
- 91-11 Montague, Clay L. Ecological implications for tidal inlet management at Jupiter, Florida. Coastal and Oceanographic Eng. Seminar Series, University of Florida, Gainesville. Oct. 25, 1991. (I)
- 91-10 Montague, Clay L. Coastal marine pollution: What middle-school teachers should know. National Science Foundation Conference on the Global Environmental Education of Middle-School Teachers. Ocean Springs, Mississippi. October 16-17, 1991. (I)
- 91-09 Montague, Clay L. The role of coastal engineering in marine habitat engineering. Wetlands Seminar Series, Center for Wetlands, University of Florida, Gainesville, September 11, 1991. (I)
- 91-08 Montague, Clay L. Oil spill in Alaska. Systems Seminar Series, Center for Wetlands, University of Florida, Gainesville, August 29, 1991. (I)
- 91-07 Montague, Clay L. The role of coastal engineering in marine habitat engineering: a systems ecologist's perspective of inlet modifications at Jupiter, Florida. National Research Council, Commission on engineering and Technical Systems, Fourth Meeting of the Committee on the Role of Technology in Marine Habitat Protection and Enhancement. New Orleans, Louisiana, August 21, 1991. (I)
- 91-06 Mehta, AJ, and Clay L. Montague. Management of sandy inlets: coastal and environmental engineering imperatives. The Seventh Symposium on Coastal and Ocean Management, Session 21. Long Beach, California, July 10, 1991. (C)
- 91-05 Montague, Clay L. A systems approach to estuarine ecology and management. Symposium for Interdisciplinary Research in the Apalachicola Estuary. Northwest Florida Water Management District, June 20-21, 1991. (I)
- 91-04 Montague, Clay L. Coastal growth and development vs aquatic life. Water Issues Workshop 1991, Northeast Florida, Sessions C-1 and D-1. Jacksonville, Florida, May 17, 1991. (I)
- 91-03 Montague, Clay L. Ecological considerations for determining the use of oil-spill dispersants in Florida's coastal zone: a complex optimization problem. Oil-spill Dispersant Workshop. Center for Solid and Hazardous Wastes, Gainesville, Florida. April 25-26, 1991. (I)
- 91-02 Montague, Clay L. Influence of light on living sediment erodibility. Southeastern Estuarine Research Society Meeting. Gulf Breeze, Florida. April 11-13, 1991. (C)
- 91-01 Montague, Clay L. Preliminary attempts to measure microbial effects on cohesive sediment erosion. Nearshore and Estuarine Cohesive Sediment Transport Workshop, St. Petersburg, Florida. April 9-12, 1991. (I)
- 90-07 Montague, Clay L. Estuarine management in Florida. Environmental Engineering Sciences Seminar, Department of Environmental Engineering Sciences, University of Florida, Gainesville, Dec 3, 1990. (I)
- 90-06 Montague, Clay L. A brief overview of Florida salt marshes with emphasis on some important differences. Southeastern Estuarine Research Society Meeting. Jekyll Island, Georgia. Oct. 26, 1990. (C)
- 90-05 Montague, Clay L. Coastal and aquatic systems ecology at UF. Wetlands Seminar Series, Center for Wetlands, University of Florida, Gainesville, September 19, 1990. (I)
- 90-04 Montague, Clay L. Rocky intertidal zones. Lecture and Field Trip for the faculty, staff, and interns of the C.V. Whitney Laboratory of Marine Biology, Marineland, Florida. August 6, 1990. (I)
- 90-03 Montague, Clay L. Salt marshes. Lecture and Field Trip for the faculty, staff, and interns of the C.V. Whitney Laboratory of Marine Biology, Marineland, Florida. July 6, 1990. (I)
- 90-02 Montague, Clay L. The setting of intertidal marshes of Florida's Gulf Coast. Invited lecture given at the Gulf Coast Intertidal Marsh Conference, Leon Civic Center, Tallahassee, Florida, May 1-2, 1990. (I)
- 90-02 Montague, Clay L. Environmental Awareness. Invited presentation for the management and staff of Respiratory Care Services at Shands Hospital, Gainesville, Florida. April 27, 1990.
- 90-01 Montague, Clay L. A simple, four-species, computer simulation of possible salinity fluctuation effects on submerged vegetation in estuaries. Spring meeting of the Southeastern Estuarine Research Society, Columbia, South Carolina, April 5-7, 1990. (C)
- 89-06 Montague, Clay L. Systems ecology and wetlands science programs at University of Florida. Wetlands Seminar Series, Center for Wetlands, University of Florida, Gainesville, August 30, 1989. (I)
- 89-05 Montague, Clay L. Earth Day 2000 and Related Topics. Department of Environmental Engineering Sciences Seminar, University of Florida, Gainesville. 28 August 1989. (I)
- 89-04 Montague, Clay L. Distribution of total biomass of submerged vegetation and associated fauna along salinity gradients in northeast Florida Bay: perhaps a result of salinity fluctuation. Tenth Annual Meeting of the Society of Wetland Scientist, Orlando, Florida, 30 May - 2 June, 1989. (C)
- 89-03 Montague, Clay L. Guest on "Conner Calling" radio talk show on the environmental impact of the Exxon Valdez oil spill in Alaska. WUFT, Gainesville, Florida. 14 April 1989. (I)
- 89-02 Montague, Clay L. Distribution and total biomass of submerged vegetation and associated fauna along salinity gradients in northeast Florida Bay is perhaps a result of salinity fluctuation. Joint Meeting of the Southeastern

- Estuarine Research Society and the Atlantic Estuarine Research Society, Beaufort, North Carolina, 6-8 April 1989. (C)
- 89-01 Montague, Clay L. Potential water management effect on coastal fish habitat. Department of Aerospace Engineering, Mechanics, and Engineering Science Seminar, University of Florida, Gainesville. 10 February, 1989. (I)
- 88-03 Montague, Clay L. Salinity fluctuations and benthos in northeast Florida Bay: implications for water management. Wetlands Seminar Series, Center for Wetlands, University of Florida, Gainesville. 16 November 1988. (I)
- 88-02 Montague, Clay L. Florida's coastal ecosystems. Department of Environmental Engineering Sciences Seminar Series on Environmental Research, University of Florida, Gainesville. 11 October 1988. (I)
- 88-01 Bartleson, R.D. \* and Clay L. Montague. A model for simulating the effects of light and nutrients on seagrass systems. Poster presented at the Second Indian River Research Symposium, Florida Institute of Technology, Melbourne, Florida, 12-13 September 1988. (C)
- 87-06 Montague, Clay L. Florida Bay problems. Department of Environmental Engineering Sciences Seminar Series on Environmental Research, University of Florida, Gainesville. 30 November 1987. (I)
- 87-05 Montague, Clay L. Management policy implications of impoundment research in Florida. Invited lecture to a Symposium on the Effects of Impoundment of Estuarine Ecosystems. Held at the Ninth Biennial Estuarine Research Conference, New Orleans, Louisiana, 28 October 1987. (I)
- 87-04 Montague, Clay L. Management policy implications of coastal impoundment research in Florida. Center for Wetlands Seminar, University of Florida, Gainesville, Florida. 14 October 1987. (I)
- 87-03 Montague, Clay L. The distribution and dynamics of submerged vegetation along gradients of salinity in northeast Florida Bay. Invited lecture to A Symposium on Florida Bay, a Subtropical Lagoon. Held at University of Miami, 1-5 June 1987. (I)
- 87-02 Montague, Clay L. Salinity gradients in tributaries of northeast Florida Bay: Implications for ecological studies of freshwater flow to estuaries. Spring Meeting of the Southeastern Estuarine Research Society, Marco Island, Florida, 23-25 April 1987. (C)
- 87-01 Montague, Clay L. Ecological effects of coastal wetland impoundments. Departments of Wildlife and Range Sciences and Fisheries and Aquaculture Seminar Series, University of Florida, Gainesville, Florida. 26 January 1987. (I)
- 86-04 Montague, Clay L. Ecosystem management. Department of Environmental Engineering Sciences Seminar Series on Environmental Research, University of Florida, Gainesville, Florida. October 1986. (I)
- 86-03 Montague, Clay L., A.V. Zale, and H.F. Percival. A Review of relationships between fringing marshes and estuarine water and some hypotheses of the effects of impoundments. Invited lecture at A Symposium on Waterfowl and Wetlands Management in the Coastal Zone of the Atlantic Flyway, Wilmington, Delaware, 16-19 September 1986. (I) (A.V. Zale and H.F. Percival, coauthors)
- 86-02 Zale, A.V., Clay L. Montague, and H.F. Percival. A synthesis of potential effects of coastal impoundments on the production of estuarine fish and shellfish and some management options. Invited lecture at A Symposium on Waterfowl and Wetlands Management in the Coastal Zone of the Atlantic Flyway, Wilmington, Delaware, 16-19 September 1986. (I)
- 86-01 Percival, H.F., A.V. Zale, and Clay L. Montague. A Summary of positive and negative aspects of coastal wetland impoundments as habitat for waterfowl. Invited lecture at A Symposium on Waterfowl and Wetlands Management in the Coastal Zone of the Atlantic Flyway, Wilmington, Delaware, 16-19 September 1986. (I)
- 85-13 Montague, Clay L. Relationships between marshes and estuaries and hypotheses of impoundment effects. Special Ecology Seminar, Institute of Ecology, University of Georgia, Athens, Georgia, 15 November 1985. (I)
- 85-12 Montague, Clay L. Relationships between marshes and estuaries and hypotheses of impoundment effects. Wetlands Seminar Series, Center for Wetlands, University of Florida, Gainesville, 6 November 1985. (I)
- 85-11 Montague, Clay L. A conceptual model of salt marsh management on Merritt Island National Wildlife Refuge. Invited presentation to the Quarterly Meeting of the Governor's Working Group on Mosquito Control, Technical Subcommittee on Mosquito Impoundments held at Merritt Island, Florida, 30-31 July 1985. (I)
- 85-10 Montague, Clay L. Relationships between marshes and estuaries and hypotheses of impoundment effects. Invited lecture, Coastal Impoundments in the Georgia Bight, a workshop held at Charleston, S.C.; sponsored by the U.S. Fish and Wildlife Service, Office of Information Transfer, 16-18 July 1985. (I)
- 85-09 Montague, Clay L. Erodibility of "living" sediments in microcosms exposed to environmental gradients. Invited presentation, Symposium on Sediment Transport/Resuspension in Lakes. 48th Annual Meeting of the American Society of Limnology and Oceanography, Minneapolis, Minnesota, 20 June 1985. (I)
- 85-08 Montague, Clay L. Testing hypotheses of some ecological observations: an interplay of models and experiments. College of Marine Studies, University of Delaware, Lewes and Newark Delaware, 3-4 June 1985. (I)

- 85-07 Genoni, G.P. \*, and Clay L. Montague. Salt marsh fiddler crabs and cordgrass: a farming hypothesis. Poster presented (awarded Honorable Mention) at the Spring Meeting of the Southeastern Estuarine Research Society, Sarasota, Florida, 9-11 May 1985. (C)
- 85-06 Montague, Clay L. Regulation of sediment photosynthesis and respiration by fiddler crabs in microcosms. Guest speaker for the Departments of Wildlife and Range Sciences and Fisheries and Aquaculture Seminar Series, University of Florida, Gainesville, Florida, 22 April 1985. (I)
- 85-05 Genoni, G.P. \*, and Clay L. Montague. Salt marsh fiddler crabs and cordgrass: a farming hypothesis. Poster presented at the Spring Workshop Commemorating the Year of the Ocean: The Florida View. Sponsored by the Institute of Biomedical Aquatic Studies, University of Florida. Held at the C.V. Whitney Laboratory, Marineland, Florida, 20-21 April 1985. (C)
- 85-04 Montague, Clay L. From rats to marshes: what makes an ecological model useful? Patuxent Wildlife Research Center, U.S. Fish and Wildlife Service, Laurel, Maryland, 27 March 1985. (I)
- 85-03 Montague, Clay L. From rats to marshes: what makes an ecological model useful? Department of Biology, George Mason University, Fairfax, Virginia, 25 March 1985. (I)
- 85-02 Paulic, M. \*, Clay L. Montague, and A.J. Mehta. Influence of light on sediment erodibility. Presentation to the Third International Symposium on River Sedimentation. Held at Jackson Mississippi, 13 February 1985. (C)
- 85-01 Montague, Clay L. Relative values of impounded and natural marshes in the vicinity of Merritt Island, Florida: A preliminary, qualitative assessment. Invited presentation: Natural Marsh Functions and Alternative Management of Salt Marshes, a workshop organized by the Technical Subcommittee for Salt Marsh Impoundment Management, Governor's Working Group for Mosquito Control. Held at the Florida Medical Entomology Laboratory, Vero Beach Florida, 9 January 1985. (I)
- 84-05 Montague, Clay L. Stabilizing and destabilizing influences of microbes and larger organisms on sediments: A review and hypothesis. In-vised presentation: Cohesive Sediment Dynamics, a workshop sponsored by the National Science Foundation, A.J. Mehta, convener. Tampa, Florida, 11-14 November, 1984. (I)
- 84-04 Montague, Clay L. and J.W. Caldwell\*. Comparison of alternative equations for uptake of nutrients by phytoplankton. Electronic poster presented at the Spring Meeting of the Southeastern Estuarine Research Society, Beaufort, S.C., 26-28 April 1984. (C)
- 84-03 Bartleson, R.D.\*, and Clay L. Montague. Increased groundwater consumption may lead to reduced seagrass biomass in northwest Florida. Poster presented at the Spring Meeting of the Southeastern Estuarine Research Society, Beaufort, S.C., 26-28 April 1984. (C)
- 84-02 Watson, A.M.\*, and Clay L. Montague. Nutrient processing in a naturally eutrophic estuarine ecosystem: an ongoing study. Presented at the Spring Meeting of the Southeastern Estuarine Research Society, Savannah, Georgia, 31 March - 2 April 1984. (C)
- 84-01 Montague, Clay L. Brine shrimp, fiddler crabs and the value of site specific ecological models: approaches for treating gray boxes. Invited lecture to the South Florida Research Center, Everglades National Park, 28 March 1984. (I)
- 83-02 Montague, Clay L. Fiddler crabs: farmers of salt marshes. Invited lecture to the Gainesville Florida Sierra Club, 11 October 1983. (I)
- 83-01 Montague, Clay L. Does gypsum positively influence *Spartina alterniflora* and its competition with mangroves? Spring Meeting of the Southeastern Estuarine Research Society, Savannah, Georgia, 31 March-2 April 1983. (C)
- 82-01 Montague, Clay L. Effects of burrows and burrowing on below-ground metabolism in a Georgia Salt Marsh. Wetlands Seminar, Center for Wetlands, University of Florida, Gainesville, Florida, 31 March 1982. (I)
- 81-01 Montague, Clay L. The influence of burrows and burrowing on metabolic processes in salt marsh sediments. Invited lecture to a Symposium on Dynamics Beneath the Marsh Soil Surface. R.R. Christian, convener. The Sixth Biennial International Estuarine Research Conference, Glendale Beach, Oregon, 5 November 1981. (I)
- 80-03 Montague, Clay L.\* Influence of fiddler crabs on carbon flow through a Georgia salt marsh. Speaker for the Departmental Seminar, Department of Environmental Engineering Sciences, University of Florida, Gainesville, Florida, 14 November 1980. (I)
- 80-02 Montague, Clay L.\* The contribution of fiddler crab work to the production and export of high quality energy from the salt marsh. Fall Meeting of the Southeastern Estuarine Research Society, Jekyll Island, Georgia, 31 October 1980. (C)
- 80-01 Montague, Clay L.\* The effect of fiddler crab burrows and burrowing on carbon flow through a Georgia salt marsh. Spring Meeting of the Southeastern Estuarine Research Society, Wilmington, North Carolina, 25 April 1980. (C)

- 79-01 Montague, Clay L.\* The response of carbon flow into and out of benthic salt marsh sediment to various densities of the mud fiddler crab, *Uca pugnax*. Poster presented at the Fifth Biennial International Estuarine Research Conference, Jekyll Island, Georgia, 10 October 1979. (C)
- 78-02 Montague, Clay L.\* The impact of fiddler crabs on salt marsh energy flow: A hypothesis. Tenth meeting of the Southeastern Estuarine Research Society, Hilton Head, South Carolina, 26-28 October 1978. (C)
- 78-01 Montague, Clay L.\* A causal hypothesis explaining predator-prey dynamics in the Great Salt Lake Utah. Session 18, Ecological Society of America Annual Meeting, Athens, Georgia, 22 August 1978. (C)
- 77-01 Haines, E.B., and Clay L. Montague\*. Use of stable carbon isotopes in studies of aquatic ecosystem energy flow. Session 10, Ecological Society of America Annual Meeting, East Lansing, Michigan, 22 August 1977. (I)

## SERVICE & PROFESSIONAL DEVELOPMENT

- 2015 - Advisor, Satilla Riverkeeper, Woodbine, Georgia.
- Treasurer, Board of Directors, Satilla RiverWatch Alliance, Inc., Woodbine, Georgia
  - Volunteer, Georgia Regents University and Georgia Southern University Research at Satilla River estuary, Georgia
  - Advisor, Citizens for closing Noyes Cut, and obsolete navigation cut causing damage in the Satilla River estuary.
  - Judge, Student poster presentations, Spring Meeting of the Southeastern Estuarine Research Society
- 2014 - Advisor, Satilla Riverkeeper, Woodbine, Georgia.
- Treasurer, Board of Directors, Satilla RiverWatch Alliance, Inc., Woodbine, Georgia
  - Volunteer, Georgia Regents University and Georgia Southern University Research at Satilla River estuary, Georgia
  - Advisor, Citizens for closing Noyes Cut, and obsolete navigation cut causing damage in the Satilla River estuary.
  - Judge, Student poster presentations, Spring Meeting of the Southeastern Estuarine Research Society
- 2013 - Advisor, Satilla Riverkeeper, Woodbine, Georgia.
- Judge, Student oral presentations and posters, Spring Meeting of the Southeastern Estuarine Research Society Meeting, Charleston, SC, 17-19 April 2013.
  - Advisor, Citizens for closing Noyes Cut, and obsolete navigation cut causing damage in the Satilla River estuary.
- 2012 - Interim Satilla Riverkeeper and Executive Director of the Satilla Riverwatch Alliance, Inc.
- Advisor, Citizens for closing Noyes Cut, and obsolete navigation cut causing damage in the Satilla River estuary.
- 2011 - Member, Marine Technical Advisory Committee, Bureau of Assessment and Restoration Support. Florida Department of Environmental Protection, Tallahassee. 2010-2011.
- Participant, *Workshop on Sea level Rise and Climate Change Impacts On Florida's Coastal Rivers: Problems and Solutions*. Convened by C. Hackney, University of North Florida, Jacksonville, 21-22 Jul 2011.
  - Moderator, Session III: Ecosystem impacts and interactions, Spring 2011 Meeting of the Southeastern Estuarine Research Society, Athens, Georgia, 17 Mar 2011.
  - Judge, Student oral presentations, Spring 2011 Meeting of the Southeastern Estuarine Research Society, Athens, Georgia, 16-18 Mar 2011.
  - Advisor, *Alternative Water Supply project*, St Johns River Water Management District, Palatka, Florida. 2010-present.
  - Advisor, Citizens for closing Noyes Cut, and obsolete navigation cut causing damage in the Satilla River estuary (volunteer service done at the request of the Satilla Riverkeeper).
  - Member, *St Marys and Satilla River Basins TMDL Technical Advisory Committee*. April 2008- ongoing.
  - Member, Advisory Council, Seahorse Key Marine Laboratory, University of Florida, Gainesville. 1998-present.
- 2010 - Member, Marine Technical Advisory Committee, Bureau of Assessment and Restoration Support. Florida Department of Environmental Protection, Tallahassee.
- Member, Local arrangements committee for the Fall 2010 meeting of the Southeastern Estuarine Research Society held in St Augustine, Florida, 4-6 Nov 2010.
  - Judge, Poster presentations, Fall 2010 meeting of the Southeastern Estuarine Research Society, St Augustine, Florida, 4-6 Nov 2010.
  - Member, Gulf of Mexico Oil Spill Professional Experts list, Coastal and Estuarine Research Federation.
  - Advisor, *Alternative Water Supply project*, St Johns River Water Management District, Palatka, Florida.
  - Member, *St Marys and Satilla River Basins TMDL Technical Advisory Committee*.
- 2009 - Member, *St Marys and Satilla River Basins TMDL Technical Advisory Committee*.
- Advisor, *Analytical Framework for Coastal and Estuarine Study (ACES)*, St Johns River Water Management District.
- 2008 - Member, *St Marys and Satilla River Basins TMDL Technical Advisory Committee*. April 2008-ongoing.
- Invited participant, *Workshop and Presentation on Policies to Promote Dynamic Beaches for Sea Turtle Nesting in Florida*, Conservation Clinic, Levin College of Law, University of Florida, 8 May 2008.
  - Invited panelist, *Matanzas Inlet Workshop*, Guana Tolomato Matanzas National Estuarine Research Reserve, Marineland, Florida, 13 February 2008.

- Town of Fernandina Beach via Clinch Kavanaugh, written report on the die-off of red maples in a Florida DOT coastal wetland impoundment in *Egans Creek Estuary*. May 2007 – Feb 2008.
- Advisor, *Analytical Framework for Coastal and Estuarine Study (ACES)*, St Johns River Water Management District.
- Reviewer, *The American Naturalist*.
- Attended *Environmental Science Seminar*, Dr. Courtney Hackney, presenter, St Johns River Water Management District. 3 Apr 2008.
- Attended *5th Biennial Emery Research Conference*, 31 Jan – 2 Feb 2008, Center for Environmental Policy, University of Florida, Gainesville.
- 2007 - Georgia Dept. Natural Resources via Satilla RiverKeeper: Formal comment on *Proposed Rule Changes to the Coastal Marshlands Protection Act Chapter 391-2-3*.
- Georgia State Legislature via Satilla RiverKeeper: Formal comment on legislation to alter the management of Jekyll Island, Georgia (*House Bill 214*).
- Audience participant & speaker, *The Water Council Town Hall Meeting*, Waycross, Georgia, 31 May 2007. State of Georgia Water Council.
- Examination of the unusual condition of prostrate live *Spartina alterniflora* in salt marshes of the *Guana-Tolomato-Matanzas National Estuarine Research Reserve*, Florida. September-October 2007.
- Advisor, *Analytical Framework for Coastal and Estuarine Study (ACES)*, St Johns River Water Management District.
- US Army Corps of Engineers, Jacksonville District: Participant, *Big Fishweir Creek Restoration Planning Interagency Site Visit and Meeting*, 22 Feb 2007, Jacksonville, FL (only representative from an academic institution).
- Proposal reviewer, NOAA, *National Estuarine Research Reserves Fellowship Program*.
- Reviewer for *Marine Ecology Progress Series*; and *Journal of Coastal Research*.
- Judge, posters and oral presentations, 19th Biennial International Estuarine Research Federation Conference, Providence, Rhode Island, 4-8 November 2007.
- Attended *Coastal Georgia Advisory Committee Meeting*, St Simons Island, Georgia, 29 Sep 2007.
- 2006 - Member: Conservation Study Committee to Update of the Campus Master Plan, University of Florida.
- Volunteer consultant, saltmarsh die-off, Nassau and Duval Counties Florida, for Florida Aquatic Preserves.
- Volunteer consultant, Horseshoe Cove sediment issue, Camden County, Georgia for the Satilla RiverKeeper organization.
- Participant, Ft George River Management Workshop. National Park Service, Florida State Parks, and Florida Aquatic Preserves. Little Talbot Island State Park, 8 Dec 2006.
- Attended *Coastal and Estuarine Science and Management Workshop*, 19 Oct 2006, Coastal Georgia Convention Center, Savannah.
- Attended *Savannah River Basin and Estuary Initiative Update and Strategy Meeting*, 1 Jun, 2006, Gainesville, Florida.
- Listed expert, coastal systems, Florida Shore and Beach Preservation Association.
- Participant, research subject for Ecological Technical Enthusiasm, Sarah E. Hunt, University of Georgia Dept. Anthropology (May 2006).
- Judge, student presentations, *Spring 2006 Meeting of the Southeastern Estuarine Research Society*.
- Judge, student presentations, *Fall 2006 Meeting of the Southeastern Estuarine Research Society*, 19-21 Oct 2007, Savannah, Georgia.
- Manuscript and Proposal Reviewing: *Handbook of Dynamic System Modeling* (3 chapters); National Estuarine Research Reserve Graduate Research Fellowship Proposals (4 proposals); *Ecosystems*; *Journal of Coastal Research*.
- Member, Curriculum Committee, Environmental Engineering Sciences.
- Member, Curriculum Committee, School of Natural Resources and Environment.
- Advisor, *Analytical Framework for Coastal and Estuarine Study (ACES)*, St Johns River Water Management District. 2006-ongoing.
- 2005 - Participant, Kingsley Plantation Science and Mapping Conference, Timucuan Preserve, National Park Service, Duval County, Florida, 14 Dec, 2005.
- Judge, student presentations, *2005 Biennial International Meeting of the Estuarine Research Federation*.
- Member, Lakes, Vegetation and Landscape Committee, University of Florida.
- Chair, Lakes and Natural Areas Subcommittee of the above committee.
- Member, Conservation Study Committee for the 2005 Master Plan, University of Florida.
- Member, Curriculum Committee, Environmental Engineering Sciences.
- Member, Curriculum Committee, School of Natural Resources and Environment.
- Attendee, Fourth Annual Science Conference, Gulf of Mexico Integrated Science Tampa Bay Study, USGS, Gulfport, FL 8-9 Feb, 2005.
- 2004 - Member, Lakes, Vegetation and Landscape Committee, University of Florida
- Chair, Lakes and Natural Areas Subcommittee of the above committee.

- Member, Conservation Study Committee for the 2005 Master Plan, University of Florida.
- Member, Curriculum Committee, Environmental Engineering Sciences
- Member, Curriculum Committee, School of Natural Resources and Environment.
- Invited attendee, Kingsley Science Meeting, Timucuan National Ecological and Historic Preserve, Kingsley Plantation, Jacksonville, Florida. 21 Jan 2004.
- Member, faculty search committee for Dept. Coastal & Oceanographic Engineering, University of Florida.
- Reviewer, National Science Foundation, *Ecosystems*, Third Emergency Conference Proceedings, Journal of Coastal Research
- 2003 - Member, faculty search committee for Dept. Coastal & Oceanographic Engineering, University of Florida.
- 2002 - Wrote leadership article for departmental chairman search entitled, "First, work with what you have: A message for our next leader." 14 June 2002.
  - Panelist, Shellfish Harvesting and Water Quality Workshop. Guana-Tolomato-Matanzas National Estuarine Research Reserve, St Johns County Administration Bldg, St. Augustine, Florida, 22 Mar 2002.
  - Technical Advisor, permanent exhibit, "World of the Calusa: South Florida Indian People and Their Environment," Florida Museum of Natural History, Powell Hall, University of Florida.
  - Published op-ed article in *The Gainesville Sun*, entitled, "The importance of environmental research at UF." Feb 20, 2002.
  - Gave input to "President's Task Force on the Future of the University" about the College of Natural Resources and Environment, University of Florida, 14 Feb 2002.
  - Member, Coastal Engineering Technical Advisory Committee (CETAC), Office of Beaches and Coastal Systems, Florida Department of Environmental Protection.
  - Student Papers Judge and Posters Judge, Fall Meeting of the Southeastern Estuarine Research Society, Coastal Carolina University, Conway, South Carolina, 17-19 October 2002.
- 2001 - Member, Coastal Engineering Technical Advisory Committee (CETAC), Office of Beaches and Coastal Systems, Florida Department of Environmental Protection.
  - Technical Advisor, permanent exhibit, "World of the Calusa: South Florida Indian People and Their Environment," Florida Museum of Natural History, Powell Hall, University of Florida.
  - Judge, Student presentations, 16<sup>th</sup> Biennial Conference of the Estuarine Research Federation, St Petersburg, Florida.
  - Reviewer for *Marine Ecology Progress Series* and *Estuarine Coastal and Shelf Science*.
  - Posters Judge, Southeastern Estuarine Research Society Meeting at the South Carolina Marine Resources Research Center, Charleston. 29-31 March 2001
- 2000 - Member, Coastal Engineering Technical Advisory Committee (CETAC), Office of Beaches and Coastal Systems, Florida Department of Environmental Protection.
  - Technical Advisor, permanent exhibit, "World of the Calusa: South Florida Indian People and Their Environment," Florida Museum of Natural History, Powell Hall, University of Florida.
  - Member, Faculty Advisory Committee, Seahorse Key Marine Laboratory, University of Florida.
  - Member, Curriculum Committee, College of Natural Resources and Environment, University of Florida.
  - Reviewer, Estuarine Research Federation Student Sponsorship proposal to the Pinellas County Environmental Foundation.
  - Research proposal reviewer: National Science Foundation, Ecosystems Program.
  - Reviewer of the status of saltmarsh restoration sites in the Merritt Island National Wildlife Refuge, St Johns River Water Management District.
- 1999 - Member, Coastal Engineering Technical Advisory Committee (CETAC), Office of Beaches and Coastal Systems, Florida Department of Environmental Protection.
  - Technical Advisor, permanent exhibit, "World of the Calusa: South Florida Indian People and Their Environment," Florida Museum of Natural History, Powell Hall, University of Florida.
  - Presenter for the University of Florida, Department of Environmental Engineering Sciences at Oceanography Day in the Capitol Rotunda, Tallahassee, Florida.
  - Member, Curriculum Committee, College of Natural Resources and Environment, University of Florida.
  - Member, Faculty Advisory Committee, Seahorse Key Marine Laboratory, University of Florida.
  - Reviewer for *Marine Ecology Progress Series*.
  - Expert Assistance Pool, South Florida Water Management District.
- 1998 - Technical Advisor, Jesse Ball DuPont Natural Habitats Study Center, Florida Museum of Natural History, Powell Hall, University of Florida.
  - Member, Research Vessel Acquisition Committee, Seahorse Key Marine Laboratory, University of Florida.
  - *Past President*, Southeastern Estuarine Research Society.
  - Expert Assistance Pool, South Florida Water Management District.



- 1997 - Member, Land Use Committee, Sustainable Biosphere Program, Ecological Society of America.  
 - Member, Science Board, Florida Sea Grant Extension.  
 - Expert Assistance Pool, South Florida Water Management District.  
 - *Past President*, Southeastern Estuarine Research Society.  
 - Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.
- 1996 - Panelist, National Science Foundation Ecosystems Program.  
 - Member, Land Use Committee, Sustainable Biosphere Program, Ecological Society of America.  
 - Member, Science Board, Florida Sea Grant Extension.  
 - Expert Assistance Pool, South Florida Water Management District.  
 - *Past President*, Southeastern Estuarine Research Society.  
 - Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.
- 1995 - Panelist, National Science Foundation Ecosystems Program.  
 - Member, Science Board, Florida Sea Grant Extension.  
 - Expert Assistance Pool, South Florida Water Management District.  
 - *Past President*, Southeastern Estuarine Research Society.  
 - Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.  
 - *Local Arrangements Chair*, Spring 1995 Meeting of the Southeastern Estuarine Research Society, Marineland, Florida 30 Mar - 1 Apr.  
 - Session chair, Estuarine Ecology/Water Quality, Biological Sciences, 59th Florida Academy of Sciences Meeting, Tampa, Florida 19 May 1995.  
 - Judge of science competitions: Westwood Middle School Science Fair, 19 Jan.  
 - Preceptor: P.K. Yonge Executive Intern Program.
- 1994 - *President*, Southeastern Estuarine Research Society.  
 - Member, Board of Directors, Estuarine Research Federation.  
 - Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.  
 - Panelist, National Science Foundation Ecosystems Program.  
 - Member, Science Board, Florida Sea Grant Extension.  
 - Workshop Participant, An Agenda for Ecosystem Management: The Role of Academia, Tallahassee, Florida, 9 Sep.  
 - Workshop Participant, Chesapeake Bay Tributary/Ecosystem Modeling Workshop, St Michaels, Maryland, 12-13 Jul.  
 - Workshop Participant, Lavaca Bay Scientific Workshop, Houston, Texas, 3-5 Feb.  
 - Expert Assistance Pool, South Florida Water Management District.  
 - Preceptor: P.K. Yonge Executive Intern Program; Preceptor for Buchholz High School Honors Science Project.  
 - Committee Member, Campus-wide, University of Florida: Faculty Executive Committee of the Center for Environmental Education.  
 - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.  
 - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee.
- 1993 - *President*, Southeastern Estuarine Research Society.  
 - Member, Board of Directors, Estuarine Research Federation.  
 - Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.  
 - Expert Assistance Pool, South Florida Water Management District.  
 - Manuscript reviewer: *Environmental Management*.  
 - Committee Member, Campus-wide, University of Florida: Faculty Executive Committee of the Center for Environmental Education.  
 - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.  
 - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee.
- 1992 - Member, Board of Directors, Estuarine Research Federation.  
 - *President* (after April), Southeastern Estuarine Research Society.  
 - *President-elect*, Southeastern Estuarine Research Society.  
 - Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.  
 - Manuscript reviewer: *Journal of Coastal Research*.  
 - General Education Advisor, campus-wide, University of Florida.

- Preview Advisor (for incoming freshmen and transfers). Campus-wide, University of Florida.
  - Committee Member, Campus-wide, University of Florida: Faculty Executive Committee of the Center for Environmental Education; Environmental Education Committee; Provost's ad hoc Committee to develop an Environmental Science B.S. Curriculum.
  - Committee Member, U.F. College of Engineering: Committee to Revise Teacher Evaluation Form.
  - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.
  - Committee Chair, U.F. Dept. of Env. Eng. Sci.: Computer Facilities Committee.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Facilities Committee.
- 1991 - *President-elect*, Southeastern Estuarine Research Society.
- Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.
  - Committee Member, Campus-wide, University of Florida: Faculty Executive Committee of the Center for Environmental Education; Environmental Education Committee; Provost's ad hoc Committee to develop an Environmental Science B.S. Curriculum.
  - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.
  - Committee Chair, U.F. Dept. of Env. Eng. Sci.: Computer Facilities Committee.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Facilities Committee.
  - Judge of science competitions: 42nd International Science and Engineering Fair, Orlando, Florida, 5-11 May; Junior Science and Engineering Symposium, Reitz Union, Gainesville, Florida, 5 Feb; Gainesville High School Science Fair, Gainesville, Florida, 13 Nov.
- 1990 - *President-elect*, Southeastern Estuarine Research Society.
- Chair, Earth Day Activities Planning Committee, University of Florida.
  - Member, Technical Working Group on the Freshwater Needs of Apalachicola Bay, Northwest Florida Water Management District.
  - Manuscript reviewer: *Journal of Experimental Marine Biology and Ecology; Wetlands*.
  - Research proposal reviewer: Florida Sea Grant College.
  - Lecturer, Careers in Marine Science, Dixie County Schools Third through Sixth grades, Florida Museum of Natural History, Gainesville, Florida. November 13, 1990.
  - Judge, 27th Annual Junior Science, Engineering, and Humanities Symposium, Reitz Union, University of Florida. February 4-6, 1990.
  - Judge and Presenter of Special Earth Day Awards: Alachua Region Science/Engineering Fair, Oaks Mall, Gainesville, Florida. February 23; Alachua Region Social Sciences Fair, Ft. Clarke Middle School, Gainesville, Florida. April 20-21; 35th Annual State Science and Engineering Fair of Florida, St. Petersburg, Florida. April 18-20.
  - Elected Senator (Representing College of Engineering), University of Florida Faculty Senate.
  - Committee Member, Campus-wide, University of Florida: Environmental Education Committee.
  - Advising Colloquium Advisor, College of Engineering, University of Florida.
  - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.
  - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.
  - Committee Chair, U.F. Dept. of Env. Eng. Sci.: Environmental Science B.S. Program Development Committee.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Environmental Science B.S. Program Development Committee; Curriculum Committee; Computer Facilities Committee.
- 1989 - Manuscript reviewer: *Environmental Management*.
- Chair, Earth Day Activities Planning Committee, University of Florida.
  - Presenter, Career Education, Alachua County Schools, Littlewood School Second Grade. 22 September 1989.
  - Elected Senator (Representing College of Engineering), University of Florida Faculty Senate.
  - Advising Colloquium Advisor, College of Engineering, University of Florida.
  - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.
  - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Environmental Science B.S. Program Development Committee; Curriculum Committee; Computer Facilities Committee.
- 1988 - Participant, Meeting on Effects of Water Management on Species in the Vicinity of C-111 Canal, South Florida Water Management District, January - Manuscript reviewer: *Ecological Modelling; Florida Scientist*.
- Elected Senator (Representing College of Engineering), University of Florida Faculty Senate.
  - Advising Colloquium Advisor, College of Engineering, University of Florida.
  - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.
  - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Facilities Committee.

- 1987 - Associate Editor, *Estuaries* (the journal of the Estuarine Research Federation).  
 - Research proposal reviewer: National Science Foundation; Polgar Fellowship, N.Y. State Dept. Envir. Cons.  
 - Manuscript reviewer: *Journal of Experimental Marine Biology and Ecology*.  
 - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.  
 - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.  
 - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Facilities Committee.
- 1986 - Associate Editor, *Estuaries* (the journal of the Estuarine Research Federation).  
 - Manuscript reviewer: *Journal of Experimental Marine Biology and Ecology*; *Marine Ecology, Progress Series*.  
 - Research proposal reviewer: National Science Foundation; Western Energy and Land Use Team, U.S. Fish and Wildl. Service.  
 - Presenter, Career Education, Alachua County Schools. Littlewood School Kindergarten. 5 February 1986.  
 - Committee Member, U.F. College of Engineering: Mathematics and Science Committee.  
 - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.  
 - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.  
 - Committee Chair, U.F. Dept. of Env. Eng. Sci.: Computer Facilities Committee.  
 - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Facilities Committee.
- 1985 - Associate Editor, *Estuaries* (the journal of the Estuarine Research Federation).  
 - Manuscript reviewer: *Estuarine Cohesive Sediment Dynamics*, (book chapter); *Proc. Fish Habitat Symposium*, Jacksonville, Fl. (book chapter).  
 - Lecturer, Honors Workshop in Biology for High School Teachers. 8 July 1985.  
 - Committee Member, U.F. College of Engineering: Computer Aided Engineering Committee; Graduate Council Fellowships Selection Committee; Mathematics and Science Committee.  
 - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.  
 - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.  
 - Committee Chair, U.F. Dept. of Env. Eng. Sci.: Computer Facilities Committee.  
 - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Capital Funds Committee; Computer Facilities Committee.
- 1984 - Associate Editor, *Estuaries* (the journal of the Estuarine Research Federation).  
 - *Program Chairman*, Southeastern Estuarine Research Society  
 - Participant, Adaptive Environmental Assessment of Kennedy Space Center, Florida. March 1984.  
 - Manuscript reviewer: *Journal of Experimental Marine Biology and Ecology*.  
 - Research proposal reviewer: National Science Foundation.  
 - Judge for the 1984 Alachua Region Science/Engineering Fair, Oaks Mall, Gainesville, Florida. March 1984.  
 - Committee Member, U.F. College of Engineering: Technical Advisory Committee for the IBM-4341 Computer; Computer Aided Engineering Committee.  
 - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.  
 - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.  
 - Committee Chair, U.F. Dept. of Env. Eng. Sci.: Computer Facilities Committee.  
 - Committee Member, U.F. Dept. of Env. Eng. Sci.: Computer Facilities Committee.
- 1983 - *Program Chairman*, Southeastern Estuarine Research Society.  
 - Research proposal reviewer: Universities Council on Water Resources.  
 - Judge, American Water Works Association, Student Paper Competition, April 1983.  
 - Commencement Marshal, University of Florida.  
 - Committee Member, U.F. College of Engineering: Technical Advisory Committee for the IBM-4341 Computer; Computer Aided Engineering Committee.  
 - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.  
 - Affirmative Action Officer, Department of Environmental Engineering Sciences, University of Florida.  
 - Committee Chair U.F. Dept. of Env. Eng. Sci.: Undergraduate Advising Committee; Computer Facilities Committee.  
 - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Facilities Committee; Student Admissions and Recruiting Committee; Space, Transportation, Fire and Safety Committee.
- 1982 - *Program Chairman*, Southeastern Estuarine Research Society.  
 - Manuscript reviewer: *Bulletin of Marine Science*; *Estuaries* (March and August); *Florida Scientist*; *Marine Ecology, Progress Series*.  
 - Research proposal reviewer: National Science Foundation.  
 - Participant, PDP 11 Operating System Course, Washington, D.C., February.  
 - Commencement Marshal, University of Florida.  
 - Undergraduate Advisor, College of Engineering, University of Florida.

- Committee Member, U.F. College of Engineering: Library Committee; Computer Aided Engineering Committee
  - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.
  - Committee Chair U.F. Dept. of Env. Eng. Sci.; Long range Planning Committee.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Acquisitions Committee; Student Admissions and Recruiting Committee.
  - Prepared materials for the nomination of H.T. Odum for: a) The Tyler Ecology/Energy Award, 1982; b) Florida Scientist of the Year, 1982; c) National Academy of Sciences, 1982.
- 1981 - Research proposal reviewer: U.S. Bureau of Reclamation.
- Commencement Marshal, University of Florida.
  - Committee Member, U.F. College of Engineering: Library Committee; Computer Aided Engineering Committee
  - Undergraduate Advisor, Department of Environmental Engineering Sciences, University of Florida.
  - Committee Chair U.F. Dept. of Env. Eng. Sci.; Long range Planning Committee.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee; Computer Acquisitions Committee; Student Admissions and Recruiting Committee.
  - Prepared materials for the nomination of H.T. Odum for: a) The Tyler Ecology/Energy Award, 1982; b) Florida Scientist of the Year, 1982; c) National Academy of Sciences, 1982.
- 1980 - Commencement Marshal, University of Florida.
- Committee Member, U.F. College of Engineering: Library Committee.
  - Committee Member, U.F. Dept. of Env. Eng. Sci.: Curriculum Committee.