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CURRICULUM VITAE
LAWRENCE B. CAHOON

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PERSONAL:

Address: 5322 Clear Run Drive
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Born: 14 May 1953 Newark, New Jersey
Married: Wife - Irene K. Cahoon
Children - Samuel R. and Christian B.

EDUCATION:

Ph.D., 1981, Duke University (Zoology)
B.S., 1975, *summa cum laude*, Washington & Lee University (Biology)
Diploma, 1971, Barnstable HS, Hyannis, Mass.

POSITIONS HELD:

Professor, 1993-

Certified Senior Ecologist, Ecological Society of America, 2002-2012

Graduate Faculty, 1991-

Adjunct Graduate Faculty, North Carolina State University, 1991-

Associate Professor, Department of Biological Sciences, UNC Wilmington, 1987-1993

Assistant Professor, Department of Biological Sciences, UNC Wilmington, 1982-1987

Visiting Faculty, Duke University Marine Laboratory

1982-1985, 1990-1991, 1995, 1997, 1999

Temporary Instructor, Duke University Zoology Dept., 1981-1982

Research Assistant, Duke University Zoology Dept., 1979, 1977

Teaching Assistant, Duke University Zoology Dept. 1975-1977, 1980

Teaching Assistant, Duke University Marine Laboratory, 1976-1980

Teaching Assistant, Washington & Lee University (Biology), 1975

ACADEMIC HONORS:

Sigma Xi (full member), 1982

Phi Beta Kappa, 1974

Phi Eta Sigma, 1972

UNCW "Million Dollar Club", 1999

UNCW "Five Million Dollar Club", 2006

UNCW Faculty Scholarship Award, 2006

UNCW Faculty Engagement in Sponsored Research (FESR) Proposal Development Fellow, 2008

SOCIETY MEMBERSHIPS:

American Association for the Advancement of Science

American Society for Limnology and Oceanography

Ecological Society of America

North Carolina Academy of Science

North Carolina Water Resources Association

The Oceanography Society

The Coastal Society

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The Coastal and Estuarine Research Society

PUBLICATIONS:

In press, submitted or in preparation:

M.G. Sanilkumar, A.V. Saramma, K.J. Joseph, and L.B. Cahoon. Monsoon effects on biomass and distribution of microphytobenthos in the Cochin Estuary, southwest India. In prep.

Cahoon, L.B., and R.H. Cutting. Forensic Water Quality Investigations: Identifying Pollution Sources and Polluters, submitted to: S. Ahuja, ed., Handbook of Water Quality and Purity, Academic Press.

Cahoon, L.B., E.G. O'Connor, and R.H. Cutting. Vulnerability of waste treatment systems to long-term rainfall excesses. In prep.

Cutting, R.H., L.B. Cahoon, D. Berman & R. Casteel. Survey of counsel on Environmental issues. Submitted to Environmental Law Institute.

Cutting, R.H., and L.B. Cahoon. Property Rights, Pollution and Global Climate Change. Submitted to Frontiers in Ecology and the Environment.

McGee, D., R.A. Laws, and L.B. Cahoon. Live benthic diatoms from the upper continental slope: Extending the limits of marine primary production. In press, Marine Ecology Progress Series.

Cahoon, L.B., J.E. Blum, S.H. Ensign, and S.N. Slingsby. El Niño - Southern Oscillation effects on river discharge in the southeast United States: Coupling with the coastal ocean. Submitted to Estuaries and Coasts.

Cahoon, L.B. Designing and executing nutrient limitation experiments in aquatic ecology, submitted to BiosciEdNet.

Cahoon, L.B. Deconstructing Intelligent design: "Evidence for the Supernatural"? In prep. For submission to Southeastern Commission for the Study of Religion.

Leise, E.M., S.J. Froggett, J.E. Nearhoof, and **L.B. Cahoon**. Extracts of diatom cultures induce and inhibit larval metamorphosis in the marine gastropod *Ilyanassa obsoleta* (Say). Submitted to J.E.M.B.E.

Cahoon, L.B., C.J. Thomas, G.R. Beretich, Jr., C. Jensen, and O. Rutten. Benthic microalgal production and sediment-water column nutrient fluxes in two neritic habitats: Stellwagen Bank and the Florida Keys. In prep for submission to J. N.C.A.S., CMSR #133

Slingsby, S.N., **L.B. Cahoon**, and J.F. Bruno. Effects of inorganic nutrient concentrations on coral reef community structure in the Caribbean. Proceedings of the 10th Intl. Coral Reef Symposium, Okinawa, Japan (2004).

Published

PR71. Cahoon, L.B. M.A. Mallin, B.R. Toothman, M. Ortwine, R.N. Harrington, R.S. Gerhart, S.M.K. Gill, and J. Knowles. 2007. Is There a Relationship Between Phosphorus and Fecal Microbes in Aquatic Sediments? In press, Final Report, UNC Water Resources Research Institute.

PR70. Loucaides, S., **L.B. Cahoon**, and E.J. Henry. 2007. Urbanization impacts on dissolved silica loading in stormflow. Journal of the American Water Research Association 43:841-849.

79. Cahoon, L.B., Getting warmer: Global warming is real, and U.S. could - should - lead the effort to slow it. Wilmington Star-News, May 13, 2007

PR69. MacPherson, T.A., **L.B. Cahoon** and M.A. Mallin. 2007. Biochemical and sediment oxygen flux: Patterns of oxygen depletion in tidal creeks. Hydrobiologia 586:235-248.

78. Mallin, M.A., **L.B. Cahoon**, T.D. Alphin, M.H. Posey, B.A. Rosov, D.C. Parsons, R.N. Harrington, and J.F. Merritt. 2007. Environmental Quality of Wilmington and New Hanover County Watersheds 2005-2006. CMS Report 07-01.

77. Harrington, R.N., and **L.B. Cahoon**. 2007. Fecal Indicator Bacteria in the water and sediments of local boat ramps, pp. 68-80, in Mallin, M.A., L.B. Cahoon, T.D. Alphin, M.H. Posey, B.A. Rosov, D.C. Parsons, R.N. Harrington, and J.F. Merritt, Environmental Quality of Wilmington and New Hanover County Watersheds 2005-2006. CMS Report 07-01.

PR68. Mallin, M.A., **L.B. Cahoon**, B.R. Toothman, D.C. Parsons, M.R. McIver, M.L. Ortwine, R.N. Harrington. 2007. Impacts of a Raw Sewage Spill on Water and Sediment Quality in an Urbanized Estuary. Marine Pollution Bulletin 54:81-88.

76. Cutting, R.H., **L.B. Cahoon**, and J.G. Hall. 2006. Property rights: Generators vs. receptors. pp. 215-232, in T. Theophanides, ed., Environmental Engineering & Economics, ATINER, Athens, Greece.

PR67. Croft, A.L., T.D. Alphin, **L.B. Cahoon**, M.H. Posey, L.A. Leonard.

2006. The effects of thin layer sand renourishment on tidal marsh processes, Masonboro Island, N.C. *Estuaries* 29:737-750.
- PR66. **Cahoon, L.B.** 2006. Upscaling primary production estimates: Regional and global scale estimates of microphytobenthos production, in Kromkamp, J.C., J.F.C. de Brouwer, G.F. Blanchard, R.M. Forster, and V. Creach, eds., **Functioning of Microphytobenthos in Estuaries**. Edita—the Publishing House of the Royal Netherlands Academy of Arts and Sciences. 400 p.
- PR65. Cutting, R.H., and **L.B. Cahoon**. 2006. Forensic Environmental science: A new approach to “human ecology”. *Bull. Ecol. Soc. Amer.* 87: 159-167.
- PR64. **Cahoon, L.B.**, J.C. Hales, K.R. Rowland, E.S. Carey, S. Loucaides, and J.E. Nearhoof. 2006. Shellfishing closures in southwest Brunswick County, North Carolina: Septic tanks vs. storm water runoff as fecal coliform sources. *J. Coastal Research* 22 (2):319-327.
- PR63. Posey, M.H., T.D. Alphin, and **L.B. Cahoon**. 2006. Benthic community responses to nutrient enrichment and predator exclusion: influence of background nutrient concentrations and interactive effects. *J. Exp. Mar. Biol. Ecol.* 330:105-118.
75. Toothman, B.R., M.L. Ortwine, and L.B. Cahoon. 2006. Fecal contamination of tidal creek sediments: Factors controlling indicator bacteria concentrations. Pp. 67-77, in Mallin, M.A. et al., *Environmental Quality of Wilmington and New Hanover County Watersheds 2004-2005*. CMS Report 06-01.
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- PR62. Burkholder, J.M., D.A. Dickey, C. Kinder, R.E. Reed, M.A. Mallin, G. Melia, M.R. McIver, **L.B. Cahoon**, C. Brownie, N. Deamer, J. Springer, H.B. Glasgow, D. Toms, and J. Smith. 2006. Comprehensive trend analysis of nutrients and related variables in a large eutrophic estuary: A decadal study of anthropogenic and climatic influences, *Limnology and Oceanography* 51 (1, part 2):463-487.
- PR61. Knowles, J.E., **L.B. Cahoon**, and S.M.K. Gill. 2006. Sediment-associated phosphorus in drainage features in southeastern North Carolina. *J. N.C. Academy of Science* 122: 39-48.
73. Cutting, R.H., **L.B. Cahoon**, and R.D. Leggette. 2006. Enforcement data: A tool for pollution control. *Environmental Law Reporter* 36:10060-10072.
- PR61. **Cahoon, L.B.** 2005. Demersal zooplankton vs. net plankton abundances in Lake Waccamaw, North Carolina. *J. N.C. Academy of Science* 121 (3):125-134.
- PR60. Cutting, R.H., and **L.B. Cahoon**. 2005. Thinking outside the box: Property rights as the key to environmental protection. *Pace Environmental Law Review* 22:55-90.
72. Mallin, M.A., **L.B. Cahoon**, M.H. Posey, V.L. Johnson, D.C. Parsons, T.D. Alphin, B.R. Toothman, and J.F. Merritt. 2005. *Environmental Quality of Wilmington and New Hanover County watersheds 2003-2004*. CMS Report 05-01, UNCW Center for Marine Science Research.
71. **Cahoon, L.B.**, B.R. Toothman, M.L. Ortwine, R.N. Harrington, R.S. Gerhart, S.L. Alexander, and T.D. Blackburn. 2005. Fecal contamination of tidal creek sediments - relationships to sediment phosphorus and among indicator bacteria, pp. 48-55, in *Environmental quality of Wilmington and New Hanover County watersheds 2003-2004*, CMS Report 05-01, UNCW Center for Marine Science Research.
- PR59. Mallin, M.A., **L.B. Cahoon**, and M.J. Durako. 2004. Contrasting food-web support bases for adjoining river-influenced and non-river influenced continental shelf ecosystems. *Estuarine, Coastal and Shelf Science* 62:55-62.
70. **Cahoon, L.B.**, and S. Ensign. 2004. Response to commentary by Hardy, Reich and Tucker. *Nutrient Cycling in Agroecosystems* 70:323-324.
69. Mallin, M.A., **L.B. Cahoon**, M.H. Posey, V.L. Johnson, T.D. Alphin, D.C. Parsons, and J.F. Merritt. 2004. *Environmental quality of Wilmington and New Hanover County watersheds 2002-2003*. CMS Report 04-01, UNC Wilmington Center for Marine Science, 72 pp.
68. **Cahoon, L.B.**, and B. Toothman. 2004. Fecal contamination of tidal creek sediments - links to sediment phosphorus? Pp. 43-51 in Mallin, M.A., L.B. Cahoon, M.H. Posey, V.L. Johnson, T.D. Alphin, D.C. Parsons, and J.F. Merritt.

2004. Environmental quality of Wilmington and New Hanover County watersheds 2002-2003. CMS Report 04-01, UNC Wilmington Center for Marine Science

PR58. **Cahoon, L.B.**, and S.H. Ensign. 2004. Excessive soil phosphorus levels in eastern North Carolina: temporal and spatial distributions and relationships to land use. *Nutrient Cycling in Agroecosystems* 69:111-125.

67. **Cahoon, L.B.** 2003. Water Quality Monitoring for the Town of Lake Waccamaw, Friends of Lake Waccamaw State Park Newsletter 6:4-6.

PR57. Mallin, M.A. M.R. McIver, S.H. Ensign and **L.B. Cahoon.** 2004. Photosynthetic and Heterotrophic Impacts of Nutrient Loading to Blackwater Streams. *Ecological Applications* 14:823-838.

66. **Cahoon, L.B.** 2003. Intensive livestock production in North Carolina: Problems, progress and lessons, pp. 1-6, Conference Proceedings: Manure Management 2003 Conference: Progress and Opportunities. Agriculture, Food and Rural Development, Conservation and Development Branch, Edmonton, Alberta.

65. Mallin, M.A., **L.B. Cahoon**, M.H. Posey, D.C. Parsons, V.L. Johnson, T.D. Alphin, and J.F. Merritt. 2003. Environmental quality of Wilmington and New Hanover County watersheds, 2001-2002. CMS Report 03-01, UNC Wilmington Center for Marine Science, 70 pp.

PR56. Mallin, M.A., and **L.B. Cahoon.** 2003. Industrialized Animal Production - A Major Source of Nutrient and Microbial Pollution to Aquatic Ecosystems. *Population and Environment* 24(5):369-385.

PR55. **Cahoon, L.B.** 2002. Residential land use, fertilizer, and soil phosphorus as a phosphorus source to surface drainages in New Hanover County, North Carolina. *Journal of the N.C. Academy of Science* 118(3):156-166.

PR54. Posey, M.H., T.D. Alphin, **L.B. Cahoon**, D.G. Lindquist, M.A. Mallin, and M.B. Nevers. 2002. Top-down versus bottom-up limitation in benthic infaunal communities: Direct and indirect effects. *Estuaries* 25:999-1014.

PR53. Mallin, M.A., **L.B. Cahoon**, M.R. McIver, and S.H. Ensign. 2002. Seeking science-based nutrient standards for coastal blackwater stream systems. UNC Water Resources Research Institute Report UNC-WRRI-2002-341, N.C. State University, Raleigh, NC.

PR52. Savidge, T.W., and **L.B. Cahoon.** 2002. Correlations between river flow in the southeastern United States and El Niño/Southern Oscillation events. *Journal of the N.C. Academy of Science* 118(2): 70-78. CMS #267

PR51. **Cahoon, L.B.**, and K.A. Safi. 2002. Distribution and biomass of benthic microalgae in Manukau Harbour, New Zealand. *New Zealand Journal of Marine and Freshwater Research* 36:257-266. CMS #235.

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63. **Cahoon, L.**, M. Posey, and T. Alphin. 2002. Trawling impacts on soft-bottom organisms. *Waterman's Gazette* 29 (4): p. 14.

62. **Cahoon, L.B.** 2002. Soil phosphorus, land use and phosphorus loading to New Hanover County Tidal Creeks, pp. 57-66, in Mallin et al., Environmental quality of Wilmington and New Hanover County watersheds. CMS Report 02-01.

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60. Cahoon, L.B. Soil phosphorus, land use, and phosphorus loading in New Hanover County tidal creeks, pp. 57-66, in Mallin, M.A., **L.B. Cahoon**, M.H. Posey, L.A. Leonard, D.C. Parsons, V.L. Johnson, E.J. Wambach, T.D. Alphin, K.A. Nelson, and J.F. Merritt. 2002. Environmental quality of Wilmington and New Hanover County watersheds. CMS Report 02-01.

59. **Cahoon, L.B.**, M.A. Mallin, F.M. Bingham, S.A. Kissling, and J.E. Nearhoof. 2001. Monitoring the Coastal Ocean: Responses to Hurricane Floyd, pp. 247-253 in Maiolo, J.R., J.C. Whitehead, M. McGee, L. King, J. Johnson, and H. Stone, eds., "Facing Our Future: Hurricane Floyd and Recovery in the Coastal Plain", Coastal Carolina Press, Wilmington, NC.

PR50. Mallin, M.A., **L.B. Cahoon**, D.C. Parsons, and S.H. Ensign. 2001. Effect of nitrogen and phosphorus loading on plankton in Coastal Plain blackwater rivers. *Journal of Freshwater Ecology* 16:455-466.

PR49. Mallin, M.A., J.M. Burkholder, **L.B. Cahoon**, and M.H. Posey. 2000. North and South Carolina coasts. *Marine Pollution Bulletin* 41:56-75.

58. Mallin, M.A., **L.B. Cahoon**, S.H. Ensign, D.C. Parsons, V.L. Johnson,

and J.F. Merritt. 2000. Environmental Quality of Wilmington and New Hanover County Watersheds 1999-2000. Center for Marine Science Report No. 00-02, UNC Wilmington, Wilmington, NC 28409.

57. Cahoon, L.B. 2000. Rainfall effects on silicate loading to tidal creeks, pp. 40-44, in Mallin, M.A., **L.B. Cahoon**, S.H. Ensign, D.C. Parsons, V.L. Johnson, and J.F. Merritt. 2000. Environmental Quality of Wilmington and New Hanover County Watersheds 1999-2000. Center for Marine Science Report No. 00-02, UNC Wilmington, Wilmington, NC 28409.

PR48. Padgett, D.E., M.A. Mallin, and **L.B. Cahoon**. 2000. Evaluating the use of ergosterol as a bioindicator for assessing fungal response to water quality. Environmental Monitoring and Assessment 65:547-558, CMSR #228.

56. Bocconcelli, A., C. Powell, J. Murray, R. Beavers, and **L.B. Cahoon**. 2000. The South Atlantic Bight Monitoring Program. Pp. 1997-2000. The Marine Technology Society, Oceans 2000 Proceedings, Providence, September 11-14. CMS #246

55. **Cahoon, L.B.**, C. Dumas, R. Burrus, and J. Harrison. 2000. Research is justified; it just might be possible to drain some power from hurricanes. Wilmington Morning Star, July 23, 2000.

54. Hackney, C.T., **L.B. Cahoon**, C. Preziosi, and A. Norris. 2000. The link between tidal marshes and estuarine fisheries: A new paradigm. Pp. 531-540, in Concepts and Controversies in Tidal Marsh Ecology symposium volume, M. Weinstein and K. Kreeger, eds., Kluwer Press, Amsterdam.

53. **Cahoon, L.B.**, and M.A. Mallin. 2000. Nutrient imports to support AFOs in the Black River Basin, North Carolina (abstract), in Wilde, F.D., Britton, L.J., Miller, C.V., and Kolpin, D.W., compilers, Effects of animal feeding operations on water resources and the environment-proceedings of the technical meeting, Fort Collins, Colorado, August 30-September 1, 1999: U.S. Geological Survey Open-File Report 00-024, 107 p.

PR47. Mallin, M.A., **L.B. Cahoon**, R.P. Lowe, J.F. Merritt, R.K. Sizemore, and K.E. Williams. 2000. Restoration of shellfishing waters in a tidal creek following limited dredging. Journal of Coastal Research 16:40-47, CMSR #219.

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52. Nearhoof, J.E., and **L.B. Cahoon**. 1999. Water quality and shellfisheries closure in a developing coastal region of North Carolina, USA: A preliminary view. Proceedings of the Gulf and Caribbean Fisheries Institute 51:441-450.

51. **Cahoon, L.B.** 1999. Climate threats regrettably real. Letter to the editor, Wilmington Morning Star, Nov. 28, 1999.

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PR45. **Cahoon, L.B.**, J.E. Nearhoof, and C.L. Tilton. 1999. Sediment grain size effect on benthic microalgal biomass in shallow aquatic ecosystems. Estuaries 22:735-741. CMSR #172.

PR44. Posey, M.H., T.D. Alphin, **L.B. Cahoon**, D.G. Lindquist, and M.E. Becker. 1999. Interactive effects of nutrient additions and predation on infaunal communities. Estuaries 22: 785-792. CMSR #226

PR43. Hubertz, E.D., and **L.B. Cahoon**. 1999. Short-term variability of water quality parameters in two shallow estuaries of North Carolina, Estuaries 22:814-823.

PR42. **Cahoon, L.B.** 1999. Aluminum cans as debris in Masonboro Sound, North Carolina: Insights for debris management, J. Elisha Mitchell Sci. Soc. 115:145-151, CMSR #222

PR41. **Cahoon, L.B.** 1999. Ecology 101: Experimental Aquatic Ecology in Stormwater Detention Ponds. Bulletin of the Ecological Society of America 8):182-185, CMSR #210.

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PR41. **Cahoon, L.B.**, Mikucki, J.A., and Mallin, M.A. 1999. Nutrient imports to the Cape Fear and Neuse River basins to support animal production, Env. Sci. Tech. 33:410-415, CMSR #189.

48. Hales, J.C., and **L.B. Cahoon**. 1998. Tidal flushing of Howe Creek. In: Environmental quality of Wilmington and New Hanover County Watersheds, 1997. CMSR Report 98-03.
- PR40. **Cahoon, L.B.**, R.S. Hartwell, W. King, and H. Striffler. 1998. Macroalgal biomass and species composition as indicators of water quality in two North Carolina tidal creeks. *J. Elisha Mitchell Sci. Soc.* 114:165-172, CMSR #181.
47. Mallin, M.A., **L.B. Cahoon**, J.J. Manock, J.F. Merritt, M.H. Posey, T.D. Alphin, D.C. Parsons, and T.L. Wheeler. 1998. Environmental Quality of Wilmington and New Hanover County Watersheds 1997-1998. CMSR Report No. 98-03, CMSR, UNC Wilmington.
46. Nearhoof, J.E., and **L.B. Cahoon**. 1998. Water quality monitoring in a developing coastal region: Fear and loathing in Calabash, North Carolina, pp. 97-104, in *Monitoring: Critical foundations to protect our waters*, Proceedings of the NWQMC National Monitoring Conference. U.S. Environmental Protection Agency, Washington, D.C.
45. **Cahoon, L.B.**, and J.E. Nearhoof. 1998. Water quality monitoring for integrated wastewater and stormwater management, pp. 209-220, in *Monitoring: Critical foundations to protect our waters*, Proceedings of the NWQMC National Monitoring Conference. U.S. Environmental Protection Agency, Washington, D.C.
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43. **Cahoon, L.B.**, D.E. Sigmon, C.L. Tilton, T.K. Sawyer, and S.A. Kissling. 1998. Effects of scallop dredging on sediment microbiota at Stellwagen Bank National Marine Sanctuary, pp. 16-19, in A. Misner, ed., *Ecologue*, the 1997 Annual Report of the UNCW Center for Marine Science Research, UNC Wilmington.
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- PR37. **Cahoon, L.B.** 1997. Hog waste treatment in New Zealand: Perspectives for North Carolina's hog industry. *J. Elisha Mitchell Sci. Soc.* 113:103-110. CMSR #168
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- PR35. Mallin, M.A., **L.B. Cahoon**, M.R. McIver, D.C. Parsons, and G.C. Shank. 1997. Nutrient limitation and eutrophication potential in the Cape Fear and New River Estuaries. Report No. 313, UNC Water Resources Research Institute, N.C. State Univ., Raleigh, N.C. CMSR #159.
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- regulate phytoplankton biomass in Lake Waccamaw, North Carolina? *Hydrobiologia* 325:193-200, CMSR #52.
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- PR33. **Cahoon, L.B.** 1996. Using stormwater detention ponds for aquatic science instruction. *J. College Science Teaching* 26:115-118.
36. **Cahoon, L.B.** 1996. An instrumented lander for measurement of benthic respiration and production, pp. 45-52, in Lang, M.A., and C.C. Baldwin, eds., *Methods and techniques of underwater research*, Proceedings of the American Academy of Underwater Sciences 1996 Scientific Diving Symposium, American Academy of Underwater Sciences, Nahant, MA, CMSR #064.
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PRESENTATIONS TO PROFESSIONAL/PUBLIC AUDIENCES

300. Cahoon, L.B., and R. Huber. "River Run" demonstration, capoe Fear River watch First Saturday program, Jan. 5, 2008
299. Cahoon, L.B. Is the river safe? Castle Hayne Steering Committee, Dec. 4, 2007
298. DuRant, E.A., M.A. Mallin and L.B. Cahoon The Cape Fear River Plume as a Localized Region of Zooplankton Aggregation, ERF Meeting, Nov., 2007
297. IS THERE A RELATIONSHIP BETWEEN PHOSPHORUS AND FECAL INDICATOR BACTERIA IN AQUATIC SEDIMENTS? Invited seminar, UNC IMS, Sept. 11, 2007
296. Storm water impacts at Lake Waccamaw, Lake Waccamaw State Park, Aug. 15, 2007.
295. Cahoon, L.B. Coping with climate change. Society of American Military Engineers, July 19, 2007.
294. Cahoon, L.B. Global warming: Consensus, uncertainties, and misconceptions. Society of American Military Engineers, June 21, 2007.
293. Cahoon, L.B. Living in a Warmer World: Heaven or Hell? UNCW Global Warming Conference, June 8, 2007 (invited)
292. Cahoon, L.B. BiosciEdNet: New teaching resources for biology educators. N.C. Academy of Science Annual Meeting, March 31, 2007.
291. Cahoon, L.B., J.E. Blum, S.H. Ensign, and S.N. Slingsby. El Niño - Southern Oscillation effects on river discharge in the southeast United States: Coupling with the coastal ocean. N.C. Academy of Science Annual Meeting, March 31, 2007.
290. Cahoon, L.B., J.E. Blum, S.H. Ensign, and S.N. Slingsby. El Niño - Southern Oscillation effects on river discharge in the southeast United States: Coupling with the coastal ocean. UNC WRI Annual Meeting, March 28, 2007.
289. Blum, J.E., S.H. Ensign, S.N. Slingsby, L.B. Cahoon. El Niño - Southern Oscillation effects on river discharge in the southeast United States: Coupling with the coastal ocean. SEERS/AERS annual meeting, March 17, 2007.
288. Cahoon, L.B. Deconstructing Intelligent Design: Evidence for the supernatural? Southeastern Commission for the Study of Religion annual meeting,

March 17, 2007.

287. Cahoon, L.B. BEN Teaching Resources, UNCW Center for Teaching Excellence, March 15, 2007.

286. Cahoon, L.B. Global Warming. UNCW Cameron School of Business 4th Annual Globalization Panel: Is Globalization Killing Us? Economics and Global Warming. Feb. 14, 2007.

285. Cahoon, L.B. Pender and the Pacific: Global warming, ENSO and our region's future. Penderwatch Annual Meeting, Jan. 10, 2007.

284. Cahoon, L.B. Near-bottom primary production phenomena in coastal shelf waters. Invited seminar, Duke University Marine Laboratory, Nov. 1, 2006.

283. Gerhart, R.S., L.B. Cahoon, and M.A. Mallin. Apatite for destruction: mobilization....SEERS meeting, Oct. 19, 2006.

282. Ortwine, M., L.B. Cahoon, and M.A. Mallin. SEERS meeting, Oct. 19, 2006.

281. Woods, W.L., S.R. Hall, J.L. Williams, M.J. Durako, E.F. Belshe, L.B. Cahoon. Glider bio-optical observations incorporated into a coastal observing program in Onslow Bay, NC. Ocean Optics meeting.

280. Cahoon, L.B. "Oceanography, climate change, and effects on North Carolina", Community Advisory Panel, May 9, 2006.

279. Mallin, M.A., L.B. Cahoon, B.R. Toothman, D.C. Parsons, M.R. McIver, M.L. Ortwine and R. Harrington. 2006. "Impacts of a raw sewage spill on water and sediment quality in an urban estuary". Annual North Carolina Water Resources Research Conference, Raleigh, N.C.

278. Ortwine, M.L., L.B. Cahoon, M.A. Mallin, and E.J. Henry. Impacts of impervious cover on tidal creek plankton community structure. WRRRI Annual Conference, April 4, 2006

277. Cahoon, L.B., S.M.K. Gill, and J.E. Knowles. Sediment-associated phosphorus in drainage features in southeastern North Carolina. WRRRI Annual Conference, April 4, 2006.

276. Harrington, R. L. Cahoon, and M.A. Mallin. Investigation of microbial contamination of sediment and water in a marine recreational setting. WRRRI Annual Conference, April 4, 2006.

275. Toothman, B.R., L.B. Cahoon, M.L. Ortwine, and M.A. Mallin. Fecal contamination of tidal creek sediments: Factors controlling indicator bacteria concentrations. WRRRI Annual Conference, April 4, 2006.

274. Mallin, M.A., L.B. Cahoon, B.R. Toothman, and M.L. Ortwine. Fecal contamination of Tidal Creek Sediments: Factors Controlling Indicator Bacteria Concentrations. SEERS Annual Meeting, April 1, 2006.

273. Toothman, B.R., M.L. Ortwine, and L.B. Cahoon. Fecal contamination of tidal creek sediments: Factors controlling indicator bacteria concentrations. NCAS Annual meeting, March 25, 2006.

272. Cahoon, L.B., and D. Kubasko, Evolution Education Chautauqua Course Review, UNCW Evolution Learning Community, Feb. 24, 2006

271. Leonard, L., Moss, M., Durako, M., Cahoon, L. Mallin, M., Posey, M., Bingham, F., and Lankford, T. 2006. The Coastal Ocean Research and Monitoring Program (CORMP): a User-Driven Sub-Regional Ocean Observation System in Southeastern North Carolina. EOS Trans. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS14F-05.

270. Cahoon, L.B. M.A. Mallin, B.R. Toothman, M. Ortwine, R.N. Harrington, R.S. Gerhart, S.M.K. Gill, and J. Knowles. Is There a Relationship Between Phosphorus and Fecal Microbes in Aquatic Sediments? UNC Water Resources Research Institute, Feb. 7, 2006.

269. Belshe, E.F., W. Woods, M.J. Durako, and L.B. Cahoon. Profiling phytoplankton productivity using an in situ Fluorometer. 27th Annual Southeastern Phycological Colloquy. Nov. 4-6, 2005.

268. Johnson, V.L., M.A. Mallin and L.B. Cahoon. 2005. "Primary productivity by phytoplankton in two North Carolina tidal creeks". Estuarine Research Federation Meeting, Norfolk, VA.

267. McIver, M.R., M.A. Mallin, D.C. Parsons, M.J. Raber, L.B. Cahoon. 2005. "Benthic and water column chlorophyll a distribution in a series of urbanizing tidal creeks." Estuarine Research Federation Meeting, Norfolk, VA.

266. Burkholder, J.M., D.A. Dickey, C.A. Kinder, R.E. Reed, M.A. Mallin, M.R. McIver, L.B. Cahoon and C. Brownie. 2005. "Increasing importance of ammonium in eutrophic estuaries." Estuarine Research Federation Meeting,

Norfolk, VA.

265. Leonard, L.A., M.J. Durako, M.K. Moss, M.A. Mallin, L.B. Cahoon, M.H. Posey, T.D. Alphin and T.E. Lankford. 2005. "Long term monitoring of ecological and physical conditions in the coastal ocean." Estuarine Research Federation Meeting, Norfolk, VA.

264. Cahoon, L.B. Biological oceanographic research in CORMP: Basic to applied research, presentation to high school science teacher's group, July 14, 2005.

263. Durako, M. J., L. A. Leonard, M. K., Moss, F. M. Bingham, M. H. Posey, M. A. Mallin, T. E. Lankford, L. B. Cahoon, T. D. Alphin, L. J. Pietrafesa, and L. Xie. Physics to Fish: Integrating Physical and Ecological Observations in the Coastal Ocean. ASLO meeting, June 25, 2005.

262. Cahoon, L.B., Michael A. Mallin, Byron R. Toothman, Michelle L. Ortwine, Renee N. Harrington, Rebecca S. Gerhart, Shannon L. Alexander, and Tara D. Blackburn. Fecal contamination of tidal creek sediments - relationships to sediment phosphorus and among indicator bacteria. WRRRI Annual Conference, April 5, 2005.

261. Cahoon, L.B. Environmental Changes. Wilmington: Building Community, People, and Places, Cape Fear Museum, March 22, 2005.

260. Bradshaw, L.C., S.A. Skrabal, R.J. Kieber, J.D. Willey, and L.B. Cahoon. Sources and sinks of nitrogen in the Cape Fear River estuary, southeastern North Carolina. N.C. Academy of Science, Mar. 19, 2005.

259. Cahoon, L.B., M.A. Mallin, B.R. Toothman, M.L. Ortwine, R.N. Harrington, R.S. Gerhart, S.L. Alexander, and T.D. Blackburn. Fecal contamination of tidal creek sediments - relationships to sediment phosphorus and among indicator bacteria. N.C. Academy of Science, Mar. 19, 2005.

258. Cahoon, L.B., J.C. Hales, K.R. Rowland, E.S. Carey, S. Loucaides, and J.E. Nearhoof. UNC Wilmington. Shellfishing closures in southwest Brunswick County, North Carolina: Septic tanks vs. storm water runoff as fecal coliform sources. SEERS meeting, Mar. 1, 2005.

257. Wren, P.A., and L.B. Cahoon. Bottom boundary layer delivery of chlorophyll a and POC to a hard bottom reef community in Onslow Bay, North Carolina ASLO meeting, Feb., 2005.

256. McGee, D.K., R.A. Laws, and L.B. Cahoon. A deep water benthic diatom assemblage from outer shelf-upper slope sediments, Onslow Bay, N.C. ASLO meeting, Feb., 2005.

255. Cahoon, L.B. Dynamics of a highly perturbed shelf system. Presentation for CMS staff, Feb. 16, 2005.

254. Cahoon, L.B. State of the Environment. UNCW Adult Scholars, Feb. 3, 2005.

253. Cahoon, L.B. Water quality issues: Local to global scale. N.C. Sorosis, Oct. 21, 2004.

252. McIver, M.R., M.J. Raber, D.C. Parsons, M.A. Mallin, and L.B. Cahoon, Summer Benthic Chlorophyll a Distribution in a Series of Urbanizing Tidal Creeks. SEERS meeting, Oct. 15, 2004.

251. Mallin, M.A., L.B. Cahoon, B.R. Toothman, M. Ortwine. Fecal Pathogens in Estuarine Sediments in Coastal North Carolina: Assessing Risks and Relationships to Environmental Parameters. SEERS meeting, Oct. 15, 2004.

250. Cahoon, L.B., Current Research: Controlling nonpoint pollution, protecting sustainable water sources, Water, Water Everywhere Series, Oct. 12, 2004.

249. Cahoon, L.B., Intensive livestock production in North Carolina: A big picture view. Living with Livestock, Environment and Change (Invited presentation, Winnipeg, Manitoba, CA), Oct. 7, 2004.

248. Riverview and the Hurricane Floyd flood, B.F. Grady Elementary School, Mrs. Burgess' 8th grade science class, Sept. 28, 2004.

247. UNCW's Coastal Ocean Research and Monitoring Program: An Overview, Cape Fear Power Squadron, Sept. 27, 2004.

246. CORMP Basic and applied research, CORMP Teacher's outreach group, July 26, 2004.

245. Ocean nutrient "enhancement". N.C. Dept. Agri. & Cons. Serv. Symposium on Ocean Disposal. June 30, 2004.

244. Slingsby, S.N., **L.B. Cahoon**, and J.F. Bruno. Effects of inorganic nutrient concentrations on coral reef community structure in the Caribbean. Proceedings of the 10th Intl. Coral Reef Symposium, Okinawa, Japan. June 20,

2004.

243. Cahoon, L.B. Current State of the Environment. Wilmington Senior Men's Club, May 21, 2004.

242. Human Impact On The Silica Cycle: Reduction Of Dissolved Silica Inputs Into The Ocean As A Result Of Increasing Impervious Cover, S. Loucaides, Lawrence B. Cahoon, E.J. Henry, L.A. Leonard, and J.D. Willey, Sigma Xi meeting, UNC Wilmington, April 15, 2004.

241. Woods, W.L., P. Kowalczyk, M. Durako, L.B. Cahoon, M. Mallin, W. Cooper, D. Wells, and J. Souza. Remote sensing, optics, and primary production component of CORMP, North Carolina's Coastal Ocean Research and Monitoring Program. Ocean Color Research Team meeting, April 15, 2004.

240. Current State of the Environment. Topsail Kiwanis, April 6, 2004.

239. Human Impact On The Silica Cycle: Reduction Of Dissolved Silica Inputs Into The Ocean As A Result Of Increasing Impervious Cover, S. Loucaides, Lawrence B. Cahoon, E.J. Henry, L.A. Leonard, and J.D. Willey, Water Resources Research Institute Annual Conference, March 31, 2004.

238. Cahoon, L.B. Current State of the Environment, UNCW Adult Odyssey program, March 29, 2004.

237. Cahoon, L.B. Regional and Local Environmental Issues, UNCW Adult Scholars Leadership Program, Feb. 12, 2004.

236. Bingham, F. M., L. B. Cahoon, P. A. Wren, L.A. Leonard and B. L. Speckhart, Ocean Response to Hurricane Isabel in Onslow Bay, NC, *EOS Trans. AGU*, 84(46), Ocean Sci. Meet. Suppl., Abstract OS51A-04, 2004.

235. Cahoon, L.B. Regional and Local Environmental Issues, Downtown Breakfast Club, Jan. 29, 2004.

234. Cahoon, L.B., R.A. Laws, and D.K. McGee. Finding the deepest benthic microalgae with a Remotely Operated Vehicle. DUNCOC Symposium, Nov. 22, 2003.

233. Cahoon, L.B. Distribution of Primary Producer Biomass in Onslow Bay in 2003, and New Efforts, CORMP, Nov. 12, 2003.

232. Cahoon, L.B. Creationism vs. Evolution. Lutheran Student Movement, Oct. 28, 2003.

231. Cahoon, L.B. The science behind managing microbial pollution. NC NERR Microbial Pollution Workshop, Hampstead, Sept. 11, 2003.

230. Cahoon, L.B. The science behind managing microbial pollution. NC NERR Microbial Pollution Workshop, Ocean Isle Beach, Sept. 4, 2003.

229. **Cahoon, L.B.** Upscaling primary production estimates: Regional and global scale estimates of microphytobenthos production, "Functioning of microphytobenthos in estuaries", Dutch Academy of Natural Sciences, Aug. 22, 2003. (Invited)

228. Cahoon, L.B. Intensive Livestock Production in North Carolina: Problems, Progress, and Lessons. Plenary Presentation, Manure Management 2003, Lethbridge, Alberta, Canada, June 25, 2003. (Invited)

227. Cahoon, L.B. Environmental impacts of intensive swine production in North Carolina. 2003 Sustainable Hog Farming Summit, June 6, 2003. (Invited)

226. Cahoon, L.B., J.C. Hales, K.R. Rowland, E.S. Carey, S. Loucaides, and J.E. Nearhoof. UNC Wilmington. Shellfishing closures in southwest Brunswick County, North Carolina: Septic tanks vs. storm water runoff as fecal coliform sources. Advanced On-site Wastewater Workshop, June 6, 2003. (Invited)

225. Cahoon, L.B. M.H. Posey, T.D. Alphin, D. Wells, S.A. Kissling, W.H. Daniels, J.C. Hales. Shrimp and crab trawling impacts on estuarine soft-bottom organisms. N.C. Marine Fisheries Commission, May 23, 2003. (Invited)

224. Molesky, T., M.H. Posey, T. Alphin, and L.B. Cahoon. The influence of created oyster reefs on a southeastern North Carolina intertidal sand flat: Benthic microalgae biomass and biogeochemical fluxes. Benthic Ecology Meetings, March, 2003.

223. Leonard, L.A., M. Posey, L. Cahoon, T. Alphin, A.L. Croft, G. Panasik, and R.A. Laws. Beneficial use of dredged materials to restore degraded salt marshes. Restore America's Estuaries conference, April 14, 2003.

222. Cahoon, L.B., J.C. Hales, K.R. Rowland, E.S. Carey, S. Loucaides, and J.E. Nearhoof. UNC Wilmington. Shellfishing closures in

southwest Brunswick County, North Carolina: Septic tanks vs. storm water runoff as fecal coliform sources. UNC Water Resources Research Institute Annual Meeting, April 1, 2003.

221. Cahoon, L.B., J.C. Hales, K.R. Rowland, E.S. Carey, S. Loucaides, and J.E. Nearhoof. UNC Wilmington. Shellfishing closures in southwest Brunswick County, North Carolina: Septic tanks vs. storm water runoff as fecal coliform sources. N.C. American Water Works Association and N.C. Water Environment Association Spring Fling, March 31, 2003.

220. Panasik, G.M. and L.B. Cahoon. The effects of the addition of dredge material on the marsh surface on benthic microalgae biomass. NCAS meeting, March 22, 2003.

219. Bradshaw, L.C., S.A. Skrabal, R.J. Kieber, J.D. Willey, and L.B. Cahoon. Ammonium in the Cape Fear River estuary: the role of sediment-water column interactions. NCAS meeting, March 22, 2003

218. Mallin, M.A., L.B. Cahoon, M.J. Durako, T.A. MacPherson, J.J. Souza, and D.H. Wells. Chlorophyll and nutrient patterns in river influenced Long Bay versus non-river influenced Onslow Bay ocean regions. SEERS meeting. March 22, 2003.

217. Cahoon, L.B., G. Manes, A. Wren, and L. Leonard. Acoustic and optical detection of diel vertical migration by demersal and holozooplankton. NCAS meeting, March 22, 2003.

216. Cahoon, L.B., J.C. Hales, K.R. Rowland, E.S. Carey, S. Loucaides, and J.E. Nearhoof. Shellfishing closures in southwest Brunswick County, North Carolina: Septic tanks vs. storm water runoff as fecal coliform sources. NCAS meeting, March 22, 2003.

215. Cahoon, L.B. Demersal zooplankton in Lake Waccamaw. NCAS meeting, March 22, 2003.

214. MacPherson, T.A., L.B. Cahoon and M.A. Mallin. Sediment oxygen demand and biochemical oxygen demand-patterns of oxygen depletion in tidal creeks. NCAS meeting, March 22, 2003.

213. Estey, E.D., and L.B. Cahoon. Lake Waccamaw Stormwater Monitoring. Mar. 14, 2003.

212. Cahoon, L.B. Global Scientific Problems, UNCW International Perspectives Mini-Semester, Feb. 12, 2003.

211. Cahoon, L.B., and G.-L. Manes. Interactions between physical processes and the distribution of benthic microalgal biomass: the near-bottom chlorophyll a maximum. CORMP Science Advisory Board, Feb. 10, 2003.

210. Cahoon, L.B. Regional and Local Environmental Issues, UNCW Adult Leadership Scholars Program, Feb. 6, 2003

209. Cahoon, L.B., G. Manes, A. Wren, and L. Leonard. Simultaneous acoustic and optical detection of diel vertical migration by demersal and holozooplankton. DUNCOC meeting, Nov. 23, 2002.

208. Cahoon, L.B., and J.C. Hales. Analysis of impacts of fecal pollution from different sources in Brunswick County and other coastal regions. SBWSA Board meeting, Nov. 14, 2002.

207. Cahoon, L.B. M.H. Posey, T.D. Alphin, D. Wells, S.A. Kissling, W.H. Daniels, J.C. Hales. Shrimp and crab trawling impacts on estuarine soft-bottom organisms. Symposium of Effects of Fishing Activities on Benthic Habitats. Nov. 12-14, 2002.

206. Cahoon, L.B., K.R. Rowland, and E.D. Estey. Storm water and water quality monitoring at Lake Waccamaw. Community Leaders Workshop, Lake Waccamaw, N.C. Oct. 25, 2002.

205. Cahoon, L.B. Regional and local environmental issues. N.C. Sorosis, Oct. 17, 2002

204. Cahoon, L.B., and J. Hales. Analysis of fecal coliform sources in the SBWSA 201 Planning Area, SBWSA Board meeting, Oct. 10, 2002.

203. Cahoon, L.B. Nutrient inputs and flux in the Cape Fear Basin, "A river runs through us-water supplies, land use and water quality", Elon College, Sept. 27, 2002.

202. Cahoon, L.B. Volunteer water quality monitoring of storm water runoff at Lake Waccamaw, July 18, 2002.

201. Mallin, M.A., and L.B. Cahoon. Industrialized livestock production as a major source of nutrients to water resources. ASLO meeting, June 13, 2002.

200. Cahoon, L.B. Temple Talk: Caring for Creation, Kure Memorial

Lutheran Church, June 2, 2002

199. Cahoon, L.B. Water Quality in Lake Waccamaw, Town of Lake Waccamaw, May 7, 2002

198. Cahoon, L.B. Water Quality in Lake Waccamaw, Town of Lake Waccamaw, April 16, 2002

197. Cahoon, L.B. New Hanover County Municipal Landfill/Leachate Treatment Facility, Town of Lake Waccamaw, April 10, 2002

196. Cahoon, L.B. Local and Regional Environmental Issues, Lutheran Men in Mission, St. Matthew's Lutheran Church, April 8, 2002

195. Cahoon, L.B., and S.H. Ensign. Assessing risks to water quality: Soil phosphorus levels in eastern North Carolina vs. time and crop type. N.C. Academy of Science, March 23, 2002.

194. Cahoon, L.B. Soil phosphorus, land use, and phosphorus loading to New Hanover County tidal creeks. N.C. Academy of Science, March 23, 2002.

193. MacPherson, T., M. Mallin, and L.B. Cahoon. Seasonal oxygen depletion in tidal creek study sites, Southeastern Estuarine Society, March 10, 2002.

192. Cahoon, L.B. Local and regional water quality issues. UNCW Adult Scholars program, Feb. 7, 2002.

191. Moss, M.K., A. Wilbur, M. Posey, L. Pietrafesa, M. Mallin, L. Leonard, T. Lankford, N. Grindlay, W. Cooper, F.M. Bingham, L. Cahoon, A. Spivack, L. Xie, A. Shepard, M. Durako, S.A. Skrabal, and T. Alphin. Coastal ocean research and monitoring program at the University of North Carolina at Wilmington. AGU Ocean Sciences Meeting, Feb. 9, 2002.

190. MacPherson, T.A., M.A. Mallin, and L.B. Cahoon. Sediment oxygen demand and biochemical oxygen demand - Patterns of oxygen depletion in tidal creek sites. Estuarine Research Federation, Nov. 2001.

189. Posey, M.H., T.D. Alphin, L.B. Cahoon, D.G. Lindquist, M.A. Mallin. Food web dynamics in tidal creek estuaries. Estuarine Research Federation, Nov. 2001.

188. Mallin, M.A., L.B. Cahoon, M.R. McIver, D.C. Parsons and S.H. Ensign. 2001. Impacts of industrial swine and poultry production on nutrient loading to Coastal Plain rivers. North American Benthological Society Meeting, LaCrosse, WI.

187. Cahoon, L.B. Regional and local water quality issues. Lower Cape Fear River Watch, April 5, 2001.

186. Cahoon, L.B., F.M. Bingham, M.A. Mallin, S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality. Science Teachers Environmental Issues Update, March 31, 2001.

185. Cahoon, L.B., M.A. Mallin, and S.H. Ensign. Nutrient imports to support intensive livestock production in the Black and Northeast Cape Fear River basins. WRRRI Annual Conference, March 29, 2001.

184. Mallin, M.A., L.B. Cahoon, M. McIver, and S.H. Ensign. Seeking science-based ambient nutrient standards for Blackwater systems. WRRRI Annual Conference, March 29, 2001

183. Cahoon, L.B., and S.H. Ensign. Assessing risks to water quality: Variation in soil, phosphorus levels in eastern North Carolina with time and land use. N.C. Academy of Science, Mar. 24, 2001.

182. Cahoon, L.B. Regional and local water quality issues. Brunswick Newcomers' Club, March 15, 2001.

181. Cahoon, L.B. Local and regional water quality issues. UNCW Adult Oddysey program, March 1, 2001.

180. Cahoon, L.B., M.H. Posey, H. Daniels, T.D. Alphin, S.A. Kissling, J. Souza, J. Hales, D. Wells. Shrimp and crab trawling impacts on estuarine soft-bottom organisms. NC Commercial Fishing Expo, Feb. 24, 2001.

179. Mallin, M.A., M.R. McIver, S.H. Ensign, and L.B. Cahoon. Co-occurrence of phytoplankton N-limitation and heterotrophic P-limitation in blackwater streams. ASLO Annual Meeting, Feb. 13, 2001.

178. Cahoon, L.B. Regional and Local Environmental Issues, UNCW Adult Scholars Leadership Program, Feb. 8, 2001.

177. Mallin, M.A., L.B. Cahoon, S.H. Ensign, and V.L. Johnson. Domesticated animals as major sources of nutrient loading to the North Carolina Coastal Plain. Southeastern Estuarine Research Society, Nov. 17, 2000.

176. Cahoon, L.B., M.A. Mallin, and S.H. Ensign. Environmental effects of geographic concentrations of confined animal feeding operations in the Black

and Northeast Cape Fear River basins. CAFO Symposium, American Fisheries Society annual meeting, Aug. 23, 2000.

175. Cahoon, L.B., F.M. Bingham, M.A. Mallin, S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality. First Hurricane Expo, June 3, 2000

174. Cahoon, L.B., F.M. Bingham, M.A. Mallin, S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality. Conference: "In the aftermath of Hurricane Floyd: Recovery in the Coastal Plain", May 24, 2000

173. Cahoon, L.B. UNCW's Coastal Ocean Monitoring Program. Lower Cape Fear River Program Technical Committee, May 19, 2000.

172. Cahoon, L.B., F.M. Bingham, M.A. Mallin, S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality. National Water Quality Monitoring Conference, April 26-30, 2000

171. Cahoon, L.B., F.M. Bingham, M.A. Mallin, S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality. N.C. Academy of Science Annual Meeting, April 1, 2000.

170. Cahoon, L.B., M.A. Mallin, and S.H. Ensign. Environmental effects of the geographic concentration of animal feeding operations (AFOs). N.C. Academy of Science Annual Meeting, April 1, 2000.

169. Cahoon, L.B., F.M. Bingham, M.A. Mallin, S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality. WRRRI annual conference, March 30, 2000

168. Posey, M., T. Alphin, L. Cahoon, M. Nevers, M. Mallin, and D. Lindquist. Interactive effects of resources availability and predation on infaunal communities. Benthic Ecology meetings, March 9-10, 2000.

167. Leonard, L.A., R. Laws, L. Cahoon, M. Posey, T. Alphin, H. Reese, and G. Pinasik. Sediment recycling: Marsh renourishment through dredged material disposal. Benthic Ecology meetings, March 9-10, 2000

166. Wells, D., M.H. Posey, and L.B. Cahoon. Effects of shrimp and crab trawling on macrobenthos. Benthic Ecology Meetings, March 10, 2000

165. Cahoon, L.B. Turbidity and fecal coliform correlations with rainfall, SBWSA Board meeting, Feb. 10, 2000

164. Cahoon, L.B., S.A. Kissling, J.E. Nearhoof, M.A. Mallin, and F.H. Bingham. Effects of hurricane flooding on coastal ocean water quality, Cape Fear RiverWatch, Feb. 5, 2000

163. Cahoon, L.B., M.A. Mallin, and S.H. Ensign. Geographic concentration of AFOs in the Northeast Cape Fear and Black River basins, Cape Fear RiverWatch, Feb. 5, 2000

162. Cahoon, L.B. NPDES Stormwater Program: UNCW Tasks, SBWSA Water Quality Management Board, Feb. 3, 2000

161. Cahoon, L.B., S.A. Kissling, J.E. Nearhoof, M.A. Mallin, and F.H. Bingham. Effects of hurricane flooding on coastal ocean water quality, NWS Annual Groundhog Day Workshop, Feb. 2, 2000

160. Cahoon, L.B., M.A. Mallin, and S.H. Ensign. Geographic concentration of AFOs in the Northeast Cape Fear and Black River basins, Alliance for a Responsible Swine Industry, Jan. 23, 2000

159. Mallin, M.A., L.B. Cahoon, S.H. Ensign, and M.R. McIver. Algal, bacterial and BOD responses to nutrient gradients in coastal plain watersheds, Water Resources Research Institute, Jan. 18, 2000

158. Cahoon, L.B. NPDES Stormwater Program: UNCW Tasks, SBWSA, Jan. 13, 2000

157. Cahoon, L.B. Stormwater quality and quantity management, SBWSA, Dec. 9, 1999

156. Cahoon, L.B., S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality, St. Matthew's Lutheran Church Men in Mission, Dec. 6, 1999

155. Cahoon, L.B., and M.A. Mallin. Natural vegetated buffers for water quality protection, City of Wilmington Watershed Roundtable, Dec. 2, 1999

154. Cahoon, L.B., S.A. Kissling, and J.E. Nearhoof. Effects of hurricane flooding on coastal ocean water quality, DUNCOC Symposium, Nov. 20, 1999

153. Cahoon, L.B. The Cape Fear Region: Regional Ocean Resources and Issues, Citizens Protecting Resources, Nov. 16, 1999

152. Cahoon, L.B. UNCW's Coastal Ocean Monitoring Program,

presentation to Iwate Prefecture University delegation, Oct. 28, 1999

151. Cahoon, L.B. and M.A. Mallin. Nutrient imports to support AFOs in the Black River Basin, N.C., presentation to Polish Farmers Solidarity delegation, Sept. 9, 1999

150. Laws, R.A., J. Hilterman, L. Leonard, and L.B. Cahoon. Composition and biomass of microalgae from back-barrier marshes, Masonboro Island, NC: Impact of storm-induced overwash. ERF meeting, Sept. 20, 1999

149. Cahoon, L.B. and M.A. Mallin. Nutrient imports to support AFOs in the Black River Basin, N.C. USGS Workshop: Animal Feeding Operations: Effects on hydrological resources and the environment, Sept. 1, 1999

148. Cahoon, L.B. Public Involvement in Water Quality Monitoring, SBWSA Board, May 13, 1999

147. Cahoon, L.B. The role of benthic microalgae in neritic ecosystems. Dept. of Chemistry, UNCW, April 23, 1999

146. Cahoon, L.B. The role of benthic microalgae in neritic ecosystems. NOAA Laboratory, Charleston, S.C., April 16, 1999

145. Cahoon, L.B. The role of benthic microalgae in neritic ecosystems. Aquatic Ecosystems and Species Poster Meeting, Moscow State University, Russia, April 16, 1999

144. Cahoon, L.B. Water quality monitoring update, SBWSA Board, April 8, 1999

143. Cahoon, L.B., and J.E. Nearhoof. New insights from water quality monitoring results. N.C. Academy of Science annual meeting, March 27, 1999

142. Nearhoof, J.E., and L.B. Cahoon. Occurrence of pathogenic bacteria in the surface waters of south Brunswick County, a developing coastal region in North Carolina. N.C. Academy of Science annual meeting, March 27, 1999

141. Cahoon, L.B. Water quality and microbiology in the SBWSA 201 Planning Area. SBWSA Board, Feb. 11, 1999

140. Cahoon, L.B. Regional and Local Environmental Issues, UNCW Adult Scholars Leadership Program, Feb. 11, 1999

139. Cahoon, L.B. Water quality monitoring update. SBWSA Board, Jan. 14, 1999

138. Cahoon, L.B. Water quality monitoring update. SBWSA Board, Dec. 10, 1998

137. Cahoon, L.B. Estimating global production by benthic microalgae, DUNCOC Oceanographic Symposium, Nov. 21, 1998

136. Cahoon, L.B. Environmental Effects of Intensive Livestock Production in North Carolina, St. Matthews Lutheran Church, Nov. 19, 1998

135. Cahoon, L.B. Two year summary of water quality monitoring results in the SBWSA 201 Planning Area. SBWSA Board, Nov. 12, 1998

134. Nearhoof, J.E., and L.B. Cahoon. Water quality and shellfisheries closure in a developing coastal region of North Carolina, USA: A preliminary view. 51st Annual Meeting of the Gulf and Caribbean Fisheries Institute, Nov. 12, 1998.

133. Cahoon, L.B. Environmental Effects of Intensive Livestock Production in North Carolina, UNC-Greensboro Sigma Xi, invited lecture, Nov. 5, 1998

132. Cahoon, L.B. Oil and Gas Exploration off the North Carolina Coast, N.C. Science Teachers' Association, invited lecture, Nov. 5, 1998.

131. Cahoon, L.B. Water quality monitoring update, South Brunswick Water and Sewer Authority Board, Aug. 13, 1998.

130. Nearhoof, J.E., and L.B. Cahoon. Water quality monitoring in a developing coastal region: Fear and loathing in Calabash, North Carolina. National Water Quality Monitoring Conference, July 8, 1998

129. Cahoon, L.B., and J.E. Nearhoof. Water quality monitoring for integrated wastewater and stormwater management. National Water Quality Monitoring Conference, July 8, 1998

128. Mallin, M.A., L.B. Cahoon, D.C. Parsons, and S.H. Ensign. Nutrient limitation of photosynthetic and heterotrophic plankton in blackwater rivers, ASLO, June 9, 1998

127. Cahoon, L.B. Coastal Risk Management: From bacterial to global scales, invited presentation, Carolinas Society for Environmental Toxicology and Chemistry, April 18, 1998

126. Cahoon, L.B. Water quality management: Problem summary and

recommendations, SBWSA Board, April 9, 1998

125. Hackney, C.T. and L.B. Cahoon. The link between estuarine productivity and tidal marshes, Concepts and Controversies in Tidal Marsh Ecology, April 5-9, 1998

124. Cahoon, L.B. Water Quality Management Recommendations, SBWSA Board, April 9, 1998

123. Cahoon, L.B., J.E. Nearhoof, and L.A. Leonard. Turbidity, suspended solids, and water quality in coastal waters, WRRRI Conference: Water Resources Protection: Understanding and Management, April 1, 1998

122. Cahoon, L.B., and J.E. Nearhoof. Interpretation of water quality monitoring results: New research directions, N.C. Academy of Sciences, March 28, 1998

121. Nearhoof, J.E., and L.B. Cahoon. Water quality monitoring in a developing coastal region: Fear and loathing in Calabash, North Carolina, N.C. Academy of Sciences, March 28, 1998

120. Cahoon, L.B. Use of stormwater detention ponds in aquatic ecology instruction, N.C. Academy of Sciences, March 28, 1998

119. Cahoon, L.B. Ocean Resource Management Issues, Southport Fishing Club, March 20, 1998

118. Posey, M.H., T. Alphin, L.B. Cahoon, and D.G. Lindquist. Interactive effects of predation and nutrient addition on estuarine infaunal communities. 27th Annual Benthic Ecology Meetings, March 13, 1998

117. Cahoon, L.B. Fear and Loathing in Calabash, SBWSA Board meeting, Mar. 12, 1998

116. Cahoon, L.B. Regional/Local Environmental Issues, UNCW Adult Scholars Leadership Program, Feb. 19, 1998

115. Cahoon, L.B. Panelist, "What are the barriers to adoption of nutrient management BMP's and how do we overcome them?", Managing Manure in Harmony with the Environment and Society Symposium, Feb. 11, 1998

114. Cahoon, L.B., Mikucki, J.A., and Mallin, M.A. Nutrient imports to the Cape Fear and Neuse River basins to support animal production, Managing Manure in Harmony with the Environment and Society Symposium, Feb. 11, 1998

113. Cahoon, L.B. Ocean Resource Management Issues, Oak Island Fishing Club, Feb. 6, 1998

112. Cahoon, L.B. Ocean Resource Issues, Pender County Agricultural Extension Homemakers, Jan. 29, 1998

111. Cahoon, L.B. Ocean Resources Issues, General Electric Retirees Association, Jan. 15, 1998

110. Cahoon, L.B. Water Quality Monitoring Results in the SBWSA region, SBWSA Board, Jan. 8, 1998

109. Cahoon, L.B., and I.K. Cahoon. New Zealand Adventures, UNCW Adult Scholars Program, Nov. 25, 1997

108. Cahoon, L.B. Water Quality Monitoring Results in the SBWSA region, SBWSA Board, Nov. 13, 1997

107. Cahoon, L.B. Ocean Resources Issues, Wrightsville Beach Power Squadron, Nov. 10, 1997

106. Cahoon, L.B. Impacts of Intensive Livestock Production, NC/SC American Planning Association Conference, Nov. 7, 1997

105. Cahoon, L.B. Nutrient imports to the Neuse River basin to support animal production, Neuse River Foundation Annual Meeting, Oct. 27, 1997

104. Cahoon, L.B. Environmental Impacts of Intensive Livestock Production, New Hanover County Public Library, Oct. 23, 1997

103. Mallin, M.A., L.B. Cahoon, J.F. Merritt, R.K. Sizemore, and K. Williams, Recovery of shellfishing waters from bacterial contamination following creek mouth dredging. Estuarine Research Federation, Oct., 1997

102. Cahoon, L.B. Water Quality Monitoring Results in the SBWSA region, SBWSA Board, Oct. 9, 1997

101. Cahoon, L.B. Water Quality Monitoring Results in the SBWSA region, SBWSA Board, Sept. 11, 1997

100. Cahoon, L.B. Water Quality Problems in Eastern North Carolina, Wilmington Men's Club, Sept. 5, 1997

99. Cahoon, L.B. Water Quality Monitoring Results in the SBWSA region, SBWSA Board, Aug. 14, 1997

98. Cahoon, L.B. Nutrient imports to the Neuse River basin to support animal production, Craven County Intensive Livestock Operations Moratorium

Study Committee, Aug. 11, 1997

97. Cahoon, L.B. Water Quality Trends. N.C. Estuary Shoreline Management Workshop, July 23, 1997

96. Cahoon, L.B. and J.E. Nearhoof. Status of the SBWSA Storm Water Quality Monitoring Program, SBWSA Board, July 10, 1997

95. Cahoon, L.B., D.E. Sigmon, C.L. Tilton, T.K. Sawyer, and S.A. Kissling. Effects of scallop dredging on sediment microbiota at Stellwagen Bank National Marine Sanctuary, Society for Conservation Biology, June 7, 1997.

94. Posey, M.H., T.D. Alphin, L.B. Cahoon, D.G. Lindquist, and M.E. Becker. Interactive effects of nutrient inputs and predation on estuarine bottom communities. AMS meeting, June, 1997.

93. Lindquist, D., D. Mayo, M. Posey, T. Alphin, and L.B. Cahoon. Fish and invertebrate communities in nutrient-impacted vs. non-nutrient impacted tidal creeks in southeastern North Carolina, ASIH meeting, June, 1997.

92. Cahoon, L.B., J.A. Mikucki, and M.A. Mallin. Nutrient imports to the Cape Fear and Neuse River basins to support animal production, N.C. Academy of Science, March 22, 1997.

91. Cahoon, L.B. Ocean outfall considerations, N.C. Coastal Resources Commission, Issues and Planning Committee, March 20, 1997

90. Cahoon, L.B. Role of benthic microalgae in shallow marine ecosystems, Dept. of Biology, UNC Greensboro, March 12, 1997

89. Cahoon, L.B. Nutrient imports to the Cape Fear and Neuse River basins to support animal production, Murphy Family Farms, Mar. 5, 1997

88. Cahoon, L.B. Nutrient imports to the Cape Fear River basin as feed to support the animal industry, Alliance for a Responsible Swine Industry, Jan. 19, 1997

87. Leise, E.M., J.E. Nearhoof, S.J. Froggett, and L.B. Cahoon. Benthic diatoms induce metamorphosis in larvae of the Caenogastropod mollusc *Ilyanassa obsoleta*. Society for Integrative and Comparative Biology, Dec. 26-30, 1996

86. Cahoon, L.B. C.L. Tilton, and J.E. Nearhoof. Sediment grain size effect on benthic microalgal biomass in shallow aquatic ecosystems. Third Marine and Estuarine Shallow Water Conference, Dec. 2, 1996

85. Cahoon, L.B. Nutrient imports to the Cape Fear and Neuse River basins to support animal production, DUNCOC Symposium, Nov. 22, 1996.

84. Cahoon, L.B. Nutrient imports to the Cape Fear and Neuse River basins to support animal production, Cape Fear Resource Conservation and Development Annual Banquet, Nov. 19, 1996.

83. Sawyer, T.K., T.A. Nerad, L.B. Cahoon, and J.E. Nearhoof. A new temperature-tolerant amoeba, *Learamoeba waccamawensis*, from soil. AERS meeting, November, 1996.

82. Cahoon, L.B. Nutrient imports to the Cape Fear River basin as feed to support the animal industry, Alliance for a Responsible Swine Industry, Oct. 27, 1996

81. Cahoon, L.B. Unanticipated effects of stormwater detention ponds on water quality in receiving waters, Futch Creek Watershed Steering Committee, Oct. 23, 1996

80. Cahoon, L.B. North Carolina's Ocean Resources Plan, N.C. Shorthand Reporter's Association, Oct. 19, 1996

79. Cahoon, L.B. An instrumented lander for measurement of benthic respiration and production. AAUS meeting, Oct. 13, 1996.

78. Cahoon, L.B. Water Quality Monitoring in the SBWSA Planning Region, South Brunswick Sewer and Water Authority Board meeting, Sept. 18, 1996.

77. Safi, K., L.B. Cahoon, J. Nagels, and B. Vant. Benthic microalgal biomass in the Manukau Harbour: Where is it? N.Z. Marine Sciences Conference, Aug. 25, 1996

76. Safi, K., L.B. Cahoon, J. Nagels, and B. Vant. Benthic microalgal biomass in the Manukau Harbour: Where is it? 1996 Joint Symposium of the Estuarine and Coastal Sciences Association and the Estuarine Research Federation, Middelburg, The Netherlands, Sept., 1996.

75. Cahoon, L.B. Public health concerns regarding the swine industry, Columbus County Health Board, Aug. 28, 1996

74. Cahoon, L.B., W.F. Clark, and K.P. Crawford. North Carolina's Ocean Resources Plan, The Coastal Society's 15th International Conference, July

17, 1996

73. Cahoon, L.B., J.E. Nearhoof, and T.K. Sawyer. Water quality of stormwater entering Lake Waccamaw, Public hearing, May 2, 1996

72. Cahoon, L.B., North Carolina's Ocean Plan, N.C. Coastal Resources Commission, March 28, 1996

71. Cahoon, L.B., Water Quality Problems in Stormwater Detention Ponds in New Hanover County, Coastal Resources Advisory Committee, March 27, 1996

70. Nearhoof, J.E., L.B. Cahoon, and M.A. Mallin. Seasonal tidal and diurnal tidal variations of natural waters in a subtidal area of Masonboro Sound, N.C. A Eulerian sampling scheme. N.C. Academy of Sciences, March 23, 1996

69. Cahoon, L.B. Variability in Water Quality of Stormwater Detention Ponds in New Hanover County, North Carolina, N.C. Cooperative Extension Service Water Quality Conference, Mar. 20, 1996

68. Mallin, M.A., M.R. McIver, G.C. Shank, L.B. Cahoon, and D.C. Parsons. 1996. Spatial and temporal nutrient patterns in the lower Cape Fear River system, N.C. Cooperative Extension Service Water Quality Conference, Mar. 20, 1996

67. Becker, M.E., L.B. Cahoon, M.H. Posey, and T.D. Alphin. The effect of nutrient loading on benthic microalgal productivity and taxonomic assemblages. Benthic Ecology Meeting, March 9, 1996

66. Posey, M.E., T.D. Alphin, L.B. Cahoon, D.G. Lindquist, and M.E. Becker. Top-down and bottom-up control of benthic communities. Benthic Ecology Meeting, March 9, 1996

65. Cahoon, L.B., "Role of benthic microalgae in shallow marine ecosystems", Leigh Marine Lab, Univ. of Auckland, New Zealand, March 1, 1996

64. Cahoon, L.B., "Ecology of benthic microalgae in shallow marine ecosystems", National Institute of Water and Atmospheric Research - Ecosystems, Hamilton, New Zealand, Feb. 9, 1996

63. Cahoon, L.B. "Environmental impacts of the hog industry in North Carolina", Wilmington Newcomers' Club, Nov. 9, 1995

62. Cahoon, L.B. "North Carolina's ocean resources plan: status and overview", N.C. Coastal Resources Commission, Sept. 28, 1995

61. Cahoon, L.B. "Water quality in Lake Waccamaw; stormwater runoff and citizen participation", Lake Waccamaw, Aug. 2, 1995

60. Cahoon, L.B. "Why be concerned about erosion and sedimentation?" The River Red: Erosion and Sedimentation Control Workshop, July 21, 1995: Invited presentation.

59. Sawyer, T.K., and L.B. Cahoon. "Protozoan indicators of sewage contamination in coastal sediments of Cape Cod and Massachusetts Bay, Massachusetts". Sixth East Coast Regional Meeting on Protozoology, June 21-23.

58. Mallin, M.A., L.B. Cahoon, and M.R. McIver. "Nutrient limitation in two contrasting North Carolina estuaries." ASLO, June, 1995

57. Mallin, M.A., L.B. Cahoon, and M.R. McIver. "Nutrient limitation in the Cape Fear River." UNC Water Resources Research Institute, Apr. 25

56. Cahoon, L.B., J.E. Nearhoof, and G.R. Beretich, Jr. "Phytoplankton chlorophyll *a* vs. benthic chlorophyll *a* in estuarine and coastal waters: Implications for remote sensing." EPA Marine and Estuarine Shallow Water Science and Management Conference, Apr. 5, 1995.

55. Sawyer, T.K., and L.B. Cahoon. "Protozoan indicators of sewage contamination in coastal sediments of Cape Cod and Massachusetts Bay, Massachusetts." EPA Marine and Estuarine Shallow Water Science and Management Conference, Apr. 5, 1995.

54. Mallin, M.A., and L.B. Cahoon. "Performance of stormwater detention ponds in New Hanover County." N.C. Coastal Resources Commission, March 23, 1995

53. Cahoon, L.B. "Benthic microalgal production in continental shelf ecosystems: Distribution and coupling to other processes." Dept. of Biological Sciences, UNC Wilmington, Mar. 3, 1995

52. Cahoon, L.B. "Distribution of benthic microalgae in continental shelf ecosystems." UNCW Sigma Xi Club, Feb. 23, 1995

51. Cahoon, L.B., C.J. Thomas, and R.A. Laws. "Benthic microalgal production in continental shelf ecosystems: Coupling to other processes." South Eastern Coastal Ocean Research meeting, Nov. 19, 1994

50. Cahoon, L.B., J.E. Nearhoof, D.B. Freeman. "Nitrogen biomass of benthic microalgae vs. other primary producers in North Carolina estuarine ecosystems." South Eastern Estuarine Research Society Meeting, Oct. 28, 1994
49. Cahoon, L.B. "Role of soft bottom production in estuarine ecosystems." National Estuarine Research Reserve Workshop, Oct. 18, 1994
48. Cahoon, L.B. "Demersal zooplankton collected by reentry trapping at Stellwagen Bank, Massachusetts Bay, USA." American Academy of Underwater Sciences, Oct. 7, 1994
47. Cahoon, L.B. "Lake Waccamaw's biological and physical characteristics." Exploring Lake Waccamaw State Park Workshop, Sept. 24, 1994
46. Cahoon, L.B., "Stormwater detention ponds: part of the solution or part of the problem?" Coastal Resources Advisory Committee, Sept. 21, 1994.
45. Cahoon, L.B., J. Clarke, G. Walker, and E. Barbee. "Water quality of stormwater detention ponds in New Hanover County, N.C." North Carolina Academy of Science meeting, March, 1994.
44. Wagoner, D.B., L.B. Cahoon, and J.D. Willey. "A trophic state evaluation of Trask's Pond and Bluethenthal Wildflower Preserve Pond." Wilmington, North Carolina. NCAS meeting, March, 1994
43. Cahoon, L.B., and J.E. Nearhoof. "The distribution and relative abundance of benthic microalgae and phytoplankton in North Carolina estuaries of varying depth and clarity." Estuarine Research Federation, Nov., 1993
42. Cahoon, L.B. The role of benthic microalgae in continental shelf ecosystems. Invited seminar, Dept. of Marine Science, University of South Florida, Oct., 1993.
41. Cahoon, L.B. The role of benthic microalgae in continental shelf ecosystems. Invited seminar, UNC Institute for Marine Science, April, 1993.
40. Cahoon, L.B. Role of benthic microalgae in continental shelf ecosystems. NCAS Annual meeting, March 27, 1993.
39. Cahoon, L.B., D.G. Lindquist, I.E. Clavijo, and C.R. Tronzo. Sampling small invertebrates at the sediment-water interface, 12th Annual Symposium of the American Academy of Underwater Sciences, Sept., 1992.
38. Cahoon, L.B., R.A. Laws, and T.W. Savidge. 1992. Characteristics of benthic microalgae from the North Carolina outer continental shelf and slope: Preliminary results, 12th Annual Symposium of the American Academy of Underwater Sciences, Sept., 1992.
37. Cahoon, L.B. Overview of NURC/UNCW-supported research in the Southeast U.S. continental shelf, Southeast U.S. Continental Shelf Workshop, June, 1992.
36. Thomas, C.J., L.B. Cahoon, D.G. Lindquist, and I.E. Clavijo. Use of multiple stable isotopes to determine trophic bases supporting reef fishes. UNCW Sigma Xi Chapter meeting, Apr., 1992.
35. Powell, C.M., M.H. Posey, D.G. Lindquist, L.B. Cahoon, and J.F. Parnell. The effects of predation and nutrient addition on the infaunal community in a North Carolina estuary. SERS meeting, Apr., 1992.
34. Cahoon, L.B., C. Jensen, and M. Feeley. Demersal zooplankton and holozooplankton at Stellwagen Bank, Massachusetts Bay. NCAS meeting, Mar., 1992.
33. Cahoon, L.B. Benthic microalgal production at Stellwagen Bank. ASLO meeting, Feb., 1992.
32. Cahoon, L.B. Benthic microalgal production at Stellwagen Bank. DUNCOC Symposium, Nov., 1991.
31. Cahoon, L.B., I.E. Clavijo, D.G. Lindquist, M.E. Posey. Ongoing Reef Research. Marine EXPO '91, Oct., 1991.
30. Cahoon, L.B. Progress report on use of stable isotope analyses to study trophic pathways supporting reef fish communities. CIFO Annual Meeting, August, 1991.
29. Cahoon, L.B. Effects of water depth and clarity on distribution and relative abundance of benthic microalgae and phytoplankton in N.C. estuaries. CIFO Annual Meeting, August, 1991.
28. Cahoon, L.B. Overview of benthic microalgal production in North Carolina estuaries, CIFO Estuarine Habitat workshop, March, 1991.
27. Cahoon, L.B., and C.R. Tronzo. Biomass of demersal zooplankton in Onslow Bay, North Carolina. NCAS meeting, March, 1991.
26. Cahoon, L.B. Overview of stable isotope analysis of trophic pathways supporting reef fish communities, CIFO Reef Fish Workshop, March,

1991.

25. Cahoon, L.B. Benthic chlorophyll in Onslow Bay, North Carolina: more pigment than predicted by a total pigment model for remote sensing applications. DUNCOC Symposium, Nov. 1990.

24. Cahoon, L.B., D.G. Lindquist, and I.E. Clavijo. "Live bottoms" in the continental shelf ecosystem: A misconception? AAUS meeting, Oct. 1990.

23. Cahoon, L.B., and J.E. Cooke. The importance of benthic microalgal production in a continental shelf ecosystem. ASLO meeting, June 1990.

22. Lindquist, D.G., I.E. Clavijo, L.B. Cahoon, and S.K. Bolden. Feeding ecology of three fish species associated with inshore artificial and natural reefs in Onslow Bay, North Carolina. N.C. Academy of Sciences Meeting, March 1990.

21. Cahoon, L.B., D.G. Lindquist, and I.E. Clavijo. "Live bottoms" in the continental shelf ecosystem: A misconception? N.C. Academy of Sciences Meeting, March 1990.

20. Kucklick, J.R., J.D. Willey, and L.B. Cahoon. Wet and dry deposition as a source of nitrogen to Lake Waccamaw, North Carolina. SETAC 10th annual meeting, Oct. 1989.

19. Cahoon, L.B., and J.E. Cooke. A comparison of benthic microalgal and macroalgal production at 23-mile rock, Onslow Bay, North Carolina. Southeastern Phycological Colloquium, Oct. 1989.

18. Lindquist, D.G., I.E. Clavijo, L.B. Cahoon, S.K. Bolden, and S.W. Burk. Quantitative diver visual surveys of innershelf natural and artificial reefs in Onslow Bay, North Carolina: preliminary results for 1988 and 1989. AAUS annual meeting, Sept. 1989.

17. Cahoon, L.B., and J.E. Cooke. Depth range of productive benthic microalgae. AAUS annual meeting, Sept. 1989.

16. Cahoon, L.B. North Carolina's red tide outbreak, Annual Meeting of NC County Health Supervisors, April 1988.

15. Cahoon, L.B. A comparison of phytoplankton and benthic microalgal production in North Carolina continental shelf waters. NC Coastal Oceanography Symposium, Sept. 1987.

14. Sanger, R.L., and L.B. Cahoon. Benthic microalgae and food quality of organic material in estuarine sediments, ASLO meeting, June 1987.

13. Cahoon, L.B. The role of benthic microalgae in the continental shelf ecosystem, Sapelo Island Marine Institute, May 1987.

12. Cahoon, L.B. Benthic microalgae regulate nutrient release from sediments. DUNCOC Symposium, Nov. 1986.

11. Cahoon, L.B. Role of sediment-water column interactions in the continental shelf ecosystem. AAUS 7th Annual meeting, Nov. 1986.

10. Tronzo, C.R., and L.B. Cahoon. The quantitative sampling of demersal zooplankton in Onslow Bay, North Carolina. AAUS 7th Annual meeting, Nov. 1986.

9. Cahoon, L.B. The role of benthic microalgae in the continental shelf ecosystem. Department of Biological Sciences, UNC Wilmington, October, 1986

8. Cahoon, L.B. The role of benthic microalgae in the continental shelf ecosystem. Department of Biology, Washington & Lee University, October, 1986.

7. Cahoon, L.B. Depth range of benthic microalgae off North Carolina. ASLO-PSA meetings, June, 1986.

6. Cahoon, L.B. Benthic microalgal production on the North Carolina continental shelf. Benthic ecology meetings, March, 1986.

5. Cahoon, L.B. Benthic microalgal production in North Carolina continental shelf waters. 7th Southeastern Phycological Colloquium, October, 1985.

4. Cahoon, L.B., C.D. Amsler, and C.R. Tronzo. Benthic microalgal production in Onslow Bay, North Carolina. ESA-ASLO, June, 1985.

3. Cahoon, L.B. Benthic primary production in Onslow Bay, North Carolina. DUNCOC Symposium, November, 1984.

2. Tronzo, C.R., and L.B. Cahoon. Abundance and taxonomic composition of demersal zooplankton associated with sand and rock substrates in Onslow Bay, North Carolina. NC Academy of Sciences meeting, March, 1984.

1. Tronzo, C.R., and L.B. Cahoon. Abundance and taxonomic composition of demersal zooplankton associated with sand and rock substrates in Onslow Bay,

North Carolina. NURP Symp., May, 1984.

GRANTS PENDING:

Multiple metrics to assess contamination of water resources by septic systems, UNC WRRRI, with Mallin, \$49,526

Deep Benthic Primary Producers on the Upper Continental Slope: Production, Taxonomy, and Biogeochemical Significance, NURC-UNCW, w/Richard Laws, \$40,000

Grants submitted but not funded:

Filtration capacity and condition response of the eastern oyster (*Crassostrea virginica*) in intertidal environments, UNC Sea Grant (Alphin, Cahoon, and Posey)

Microbial anti-oxidants from swine waste lagoons, Water Environment Research Foundation, w/Halkides and Song, \$34,660

GRANTS FUNDED (>\$10 million total)

(2008):

Key parameters for assessing beach functionality, UNC Sea Grant, with Posey, Leonard, Lankford, and Alphin, \$99,810

(2007):

Microbial anti-oxidants from swine wastelagoons, UNC Research Competitiveness Fund, w/Song, Halkides, M. Williams, and G. Dubay, \$116,507

(2006):

Flushing rate studies at Bald Head Creek, ESP Associates, Inc., \$1500

Sediment-water interface processes in Sardinian coastal lagoons: Nutrient exchange, production, and stimulation of microheterotrophs. UNCW Cahill Award, \$1,975.

UNCW Research Reassignment, Fall, 2006

Coastal Ocean Research and Monitoring Program, \$0.5 million, w/Leonard and many others, NOAA Coastal Services Center

(2005):

Flexys Robotic Workstation(Genomic Solutions). Bongkeun Song, Lawrence Cahoon, Stephen Kinsey, Thomas Schuster, Thomas Shafer, Ann Stapleton, Jeffrey Wright. Total Request \$20,000. Matching available \$17,331.

Technology to Support Forensic Environmental Science, \$4510, with R. Cutting, UNCW Information Technology Systems Division.

Coastal Ocean Research and Monitoring Program, \$2.45 million, w/Moss and many others, NOAA Coastal Services Center

"Is there a relationship between phosphorus and fecal microbes in aquatic sediments", UNC Water Resources Research Institute (\$50,000, w/Mallin)

"Effects of sediment phosphorus concentration on fecal pathogen indicators in estuarine sediments", UNC Sea Grant, (\$70,728, w/Mallin)

2004

"Fecal contamination of tidal creek sediments - links to sediment phosphorus?", New Hanover County Tidal Creeks Program, (\$8,008, w/Mallin et al.)

"Response of benthic microalgal biomass to renourishment of ocean beaches", UNC Sea Grant, (\$6,486)

"SE Atlantic Marine Monitoring and Prediction Center: 2003 Coastal Ocean Research and Monitoring Program", NOAA NOS,(\$1,192,000, co-PI w/Moss and many others)

"Water Quality Monitoring in Lake Waccamaw's Canals", \$10,450, Hobbs, Upchurch & Asso.

"Taxonomic surveys of benthic diatoms in outer continental shelf

habitats", \$26,650, UNCW Center for Marine Science Pilot Project, with R. Laws.

"Fecal contamination of tidal creek sediments", \$8,556, New Hanover County Tidal Creeks Program

2003

"Flushing Rates of Howe and Pages Creeks", \$13,080, New Hanover County Tidal Creeks Program, with J. Hales

"Flushing rate of Hewletts Creek", \$6,731, New Hanover County Tidal Creeks Program, with J. Hales

2002

"Water Quality Monitoring for the Town of Lake Waccamaw", (\$33,300), Town of Lake Waccamaw (EPA 319H grant)

"SE Atlantic Marine Monitoring and Prediction Center: 2001 Coastal Ocean Research and Monitoring Program", NOAA OAR, (\$925,000, co-PI w/Moss and many others)

"Water quality monitoring for the South Brunswick Water and Sewer Authority", \$119,996

"Interactions between nutrient additions and trophic controls: Scaling effects and system variability", UNC Sea Grant (\$82,700, w/Posey and Alphin)

"Sediment recycling: Marsh renourishment through dredged material disposal", CICEET (\$126,883, w/Leonard, Posey, Laws, Alphin)

2001

N.C. Fishery Resource Grant: Shrimp and crab trawling impacts on estuarine soft-bottom organisms (\$91,840, w/Posey, H. Daniels)

2000

"Sediment phosphorus dynamics in New Hanover County Tidal Creeks", \$7,035

"Water quality monitoring for the South Brunswick Water and Sewer Authority", \$98,107

"Coastal Ocean Monitoring in the South Atlantic Bight", NOAA (\$730,000, Principal Investigator w/many others)

"Stimulation of Estuarine Benthic Microheterotrophs by Organic Loadings", UNC Sea Grant (\$7,944, w/Posey, Alphin)

"Algal, bacterial, and BOD responses to nutrient gradients in coastal plain watersheds", UNC WRRRI, (\$39,925, w/Mallin)

"Rapid response to Hurricane Floyd: Shiptime on R/V CAPE HATTERAS", UNC Sea Grant, \$10,000

New Hanover County Tidal Creeks Project (\$8,427 to LBC), \$60,000 to Mallin et al.

"Forensic Environmental Science: A new approach to environmental studies", EPA Environmental Education Program, (\$5,295, w/R. Cutting)

1999

"South Brunswick Water and Sewer Authority: Water quality monitoring in the SBWSA 201 Facilities Planning Area", supplemental funding (\$66,985)

South Brunswick Water and Sewer Authority: Water quality monitoring in the SBWSA 201 Facilities Planning Area (\$437,391)

1998

Novartis Inc.: Isolation and culture of microorganisms from extreme habitats for Novartis, Inc. (\$14,850)

UNC WRRRI: Seeking science-based nutrient standards for coastal blackwater systems (\$14,300, w/Mallin)

1997

New Hanover County/Northeast NH Conservancy (\$40,000, w/Mallin and others)

1996

UNC Sea Grant (\$44,960, w/Posey/Lindquist)
South Brunswick Water and Sewer Authority, (\$134,776)
UNC Water Resources Research Institute, (\$20,154, with M. Mallin)
N.C. Marine Fisheries Commission, (\$4,655, w/Posey and Lindquist)
National Science Foundation, Division of International Programs, (\$6,748)
NURC-UCAP (\$15,310 + \$22,000 shiptime)
Visiting Scholar support, New Zealand National Institute of Water and Atmospheric Research
N.C. Div. Water Resources (\$4,974)

1995
(through 1996) N.C. Biotechnology Center, (\$39,910, w/ P. Seaton)
Stellwagen Bank N.M.S. (\$2474)
NSF-ILI (\$34,110) (through 1998)
N.C. Div. Water Resources (\$11,216)
UNC Sea Grant (\$44,960, w/Posey/Lindquist) (through 1998)
New Hanover County/ NE NH Conservancy
N.C. Water Resources Research Institute (\$39,882, renewal for 95-96, with M. Mallin)

1994
Water Resources Research Institute (\$39,700, w/ M. Mallin)
NURC-UCAP (\$18,818 + shiptime)
DUNCOC (shiptime + \$600)
NE NH Conservancy (\$5400)
New Hanover County/ NE NH Conservancy (\$40,000)

1993
New Hanover County/ NE NH Conservancy (\$40,000)

1992
Minerals Management Service (\$2084, via VIMS subcontract)
UNC Sea Grant (Publication support: \$2000)
CIFO (1991-, cont.)
NURC-UNCW (Florida Keys program, shiptime + \$6000 support)

1991
CIFO (\$3630, estuarine habitat study)
CIFO (1990-, cont.)
NURC/UNCW (travel and boat time, Florida Keys)
NURC/UCAP (shiptime + \$9987 science support)
NURC/UNCW (shiptime + \$3503, with R. Laws)

1990
Cooperative Institute of Fisheries Oceanography (\$19,987, with D. Lindquist and I. Clavijo)
UNCW Faculty Research Award
N.C. Wildlife Resources Commission
NURC/UNCW (shiptime) (with R. Laws)

1989
UNCW Faculty Development Grant
UNC Sea Grant (with D. Lindquist and I. Clavijo)
NURC/NOAA (shiptime) (with D. Lindquist and I. Clavijo)
NURC/NOAA (shiptime) (with R. Laws)

1988
Friends of UNCW
UNC Sea Grant (with D. Lindquist and I. Clavijo)
NURP/NOAA (shiptime) (with D. Lindquist and I. Clavijo)

1987

UNCW Faculty Research Grant
NURP/NOAA (submersible shiptime)
National Estuarine Sanctuary Program (continued)

1986

UNC Marine Science Council (continued)
NOAA (submersible shiptime)
National Estuarine Sanctuary Program

1985

UNCW Faculty Development Grant
UNC Marine Science Council
UNC Sea Grant Mini-grant
NURP/NOAA (shiptime)
DUNCOC (shiptime)

1984 (cont.)

UNC Sea Grant Mini-grant
UNCW Faculty Development Grant
UNCW Faculty Research Grant
NURP/NOAA (shiptime)
DUNCOC (shiptime)

1983

NSF (Res. Instr.) (with D. Kapraun and H. Keller)
NC Board of Science and Technology
Lerner-Grey Fund for Marine Research
SURF/NOAA (shiptime)
American Philosophical Society
UNCW Faculty Research Grant

1982

Southern Regional Education Board
SURF/NOAA (shiptime)

RESEARCH CRUISES: * - Chief Scientist

40 2003: R/V CAPE HATTERAS, Onslow Bay*
 2001: R/V SUSAN HUDSON, Pamlico Sound/Neuse River
 1999: R/V CAPE HATTERAS, Long Bay*
 1999: R/V CAPE FEAR, Long Bay*
 1997: R/V CAPE HATTERAS, Onslow Bay
35 1996: R/V ARGO MAINE, Stellwagen Bank*
 1994: R/V CAPE HATTERAS, Onslow Bay*
 R/V ARGO MAINE, Massachusetts Bay*
 R/V CAPE HATTERAS, Onslow Bay*
 1992: R/V WILD CARD, Florida Keys*
30 1991: R/V SEAWARD EXPLORER, Stellwagen Bank*
 1989: R/V RAW BAR, Onslow Bay
 1988: R/V SEAWARD EXPLORER, Onslow Bay*
 1987: R/V EDWIN LINK, R/S JOHNSON SEA LINK, Onslow Bay*
 1986: R/V SEAHAWK, Onslow Bay*
25 R/V SEAHAWK, Onslow Bay*
 1985: R/V CAPE HATTERAS, NC Shelf*
 R/V SEAHAWK, Onslow Bay*
 R/V SEAHAWK, Onslow Bay
 R/V SEAHAWK, Onslow Bay
20 R/V WESTWARD, Gulf of Maine
 R/V SEAHAWK, Onslow Bay*
 R/V SEAHAWK, Florida Keys
 1984: R/V CAPE HATTERAS, Onslow Bay*
 R/V SEAHAWK, Frying Pan Shoals
15 R/V INTERFACE, Onslow Bay*
 R/V INTERFACE, Onslow Bay*

R/V INTERFACE, Onslow Bay*
 1983: R/V SEAHAWK, Onslow Bay*
 R/V SEAHAWK, Onslow Bay*
 10 1982: R/V SEAHAWK, Onslow Bay*
 R/V CAPE HATTERAS, Onslow Bay
 R/V SEAHAWK, Onslow Bay*
 1981: R/V CAPE HATTERAS, Onslow Bay
 1979: R/V JOHN de WOLF II, Onslow Bay*
 5 1978: R/V JOHN de WOLF II, Onslow Bay*
 R/V JOHN de WOLF II, Chesapeake Bay*
 R/V DMITRIY MENDELEEV (USSR), Peru
 1977: R/V EASTWARD, Onslow Bay
 1 1975: R/V EASTWARD, Onslow and Raleigh Bays

COURSES TAUGHT:

Spring 2008: BIO 564 (Biological Oceanography, lecture and lab)
 Fall 2007: BIO 460 (Limnology lecture), BIO 460-200 (Limnology
 Laboratory), BIO 601 (Oceanography and Environmental Science Seminar)

UNDERGRADUATE ADVISING:

5 students, MBY and BIO majors

PROFESSIONAL SERVICE (Current in bold):

Department: Equipment Committee
 Library Committee
 Seminar Committee
 Long Range Planning Committee
 Chairman's Advisory Committee
 Ad hoc Hurricane Preparedness Committee
 Junior Faculty Evaluation Committee (Chair)
 Dr. Sizemore's PTR committee (Chair)
 Biological Oceanographer Search Committee (Chair)
 Ad hoc CMS Draft Strategic Plan committee
Graduate Advisory Committee

University:

University Advancement Committee
 CMS Program Coordinator, Oceanography
 Member, M.S. Marine Science Advisory Committee
 Member, GIS search committee (Earth Sciences)
 University Speakers Bureau, 1997-
 International Programs Advisory Committee, 1997-
 Diving and Water Safety Board
 University Hearings Committee, 1997-1999
 Member, Search Committee for Endowed Chair in
 marine sciences
 Member, Faculty Reassignment Awards Committee
 Member, Hearings Panel
 Principal Investigator, NOAA Coastal Ocean Monitoring
 Program (overthrown in coup by Chancellor Leutze)
 Member, Radiation Safety Committee
 CMSR Director Search Committee
 Search Committee, Associate Vice Chancellor for
 International Programs
Radiation Safety Committee, elected chair 2006-2008

GRADUATE STUDENT SUPERVISION:

*1. Shyn-Shin Sheen, M.S. 1985, "The effect of nutritional quality of
 phytoplankton on *Acartia tonsa* during reproduction"
 2. Donald Freeman, M.S. 1989, "The distribution and trophic
 significance of benthic microalgae in Masonboro Sound, North Carolina"
 3. Craig R. Tronzo, M.S. 1989, "The ecology of demersal zooplankton

in Onslow Bay, North Carolina"

4. Debra A. Owen, M.S. 1990, "Trophic study of a shallow lake: Lake Waccamaw, North Carolina"

5. Jacob E. Cooke, M.S. 1991, "The effect of ultraviolet radiation on benthic microalgae"

*6. Scott Kaczynski, M.S. 1992, "A study of chromium chemistry in natural waters: Photochemical production of trivalent chromium and organic complexation"

7. Carrie J. Thomas, M.S. 1992, "Stable isotope analyses differentiate between different trophic pathways supporting reef fishes"

8. Guy M. Beretich, Jr., M.S. 1992, "Comparisons of water column and benthic chlorophylls on the eastern U.S. continental shelf"

*9. Janice E. Nearhoof, M.S. 1994, "Effects of water depth and clarity on the distribution and relative abundance of phytoplankton and benthic microalgae in North Carolina estuaries"

10. Cooper C. Heins, M.S. 1995, "Phytoplankton and benthic microalgal responses to nutrient enrichment in two North Carolina tidal creeks"

*11. Daniel E. Sigmon, M.S. 1995, "The effects of benthic microalgae on sediment nutrient fluxes"

12. Crystal L. Tilton, M.S. 1996, "The effects of benthic microalgae on sediment zinc accumulation"

13. Meredith E. Becker, M.S. 1996, "The effects of nutrient loading on benthic microalgal biomass and taxonomic composition"

14. Erica D. Hubertz, M.S. 1996, "Short-term variability of water quality parameters in two shallow estuaries in North Carolina"

*15. Matthew McIver, M.S. 1997, "Meiobenthic copepods in three estuarine tidal creeks with varying water quality in southeastern North Carolina"

*16. Barbara Spudich, M.S. 1997, "Use of in vivo fluorometry as a non-invasive, quantitative measure of zooxanthellae pigment"

17. Zhehong Ying, M.S. 1998, "Nitrogen fixation in stormwater detention ponds and its relationship with phosphate accumulation"

*18. Timothy W. Savidge, M.S. 1998, "Teleconnections between el Nino/southern oscillation events and river flow in the southeastern United States"

19. Carrie Jo Thomas, Ph.D. 1998. Individual deposit-feeder, community and ecosystem level controls on organic matter diagenesis in marine benthic environments. (UNCW-NCSU Cooperative Ph.D. Program, w/Neal Blair)

*20. Katie Laing, M.S. 1999, "Growth and elemental composition of the calcareous green alga, *Halimeda incrassata*, in the Florida Keys"

21. T Christopher N. Collura, M.S. 1999, "A comparative study of two micro-tidal creeks in New Hanover County, NC: Potential for silicate limitation"

22. Jason C. Hales, M.S. 2001, "Tidal exchange in coastal estuaries: Effects of development, rain, and dredging"

23. Kevin R. Rowland, M.S. 2002, "Survival of sediment-bound fecal coliform bacteria and potential pathogens in relation to phosphate concentration in estuarine sediments"

*24. GianLuca Manes, M.S. 2003, "The near-bottom chlorophyll a maximum in Onslow Bay: Effects of wave events on benthic microalgae resuspension"

25. Gina M. Panasik, M.S. 2003, "Effects of the addition of dredged sediment to a marsh ecosystem on benthic microalgal biomass"

*26. Tara A. MacPherson, M.S. 2003, "Sediment oxygen demand and biochemical oxygen demand: Patterns of oxygen depletion in tidal creek sites"

*27. Shauna N. Slingsby, M.S. 2003, "Patterns of association and interactions between juvenile corals and macroalgae in the Caribbean"

28. Socratis Loucaides, M.S. 2003, "Human impact on the silica cycle: Reduction of dissolved silica inputs into the ocean as a result of the increasing impervious cover".

29. Emily Blalock, M.S. 2004, "The use of tilapia to remove nitrogen and phosphorus from wastewater".

30. Ethan Estey, M.S., 2004, "Comparison of biotic and abiotic factors affecting soluble reactive phosphorus uptake in New Hanover County Detention Ponds"

31. Erin S. Carey, "Effects of beach renourishment on benthic microalgae at Carolina and Kure beaches" M.S. 2005
32. Byron R. Toothman, "Effects of phosphorus and labile organic carbon on sediment-associated fecal indicator bacteria" M.S., 2006
- *33. Stephen M.K. Gill, "Phosphorus liberation by aquatic microorganisms", M.S., 2006
34. Michelle L. Ortwine, "The impacts of rainfall runoff on tidal creek algal and bacterial production", M.S. 2007
35. Renee N. Harrington, "Investigation of microbial contamination of sediment and water at boat ramps", M.S. 2007
- 36.

*- students admitted originally by another faculty member.
Current students:

- Rebecca Gerhart (M.S., Marine Science) ('04-)
Troy Alphin (Ph.D., Marine Biology) ('06-)
Kelly Stull (M.S., Marine Science) ('07-)
Melody Knowles (M.S., Marine Science) ('07-)

GRADUATE COMMITTEES :

- 1 Dewey Lewis, M.S. 1985
Ed Walser, M.S. 1985
Ray Brandi, M.S. 1986
- 5 Annette Taylor, M.S. 1986
Walter Pollard, M.S. 1987
Randy Lennon, M.S. 1988
David Meyer, M.S. 1988
John Kucklick, M.S. 1988
John Tinsley, M.S. 1989
- 10 Mike Shipley, M.S. 1989
Connie Redmann, M.S. 1989
Brooks Avery, M.S. 1989
Hal Bain, M.S. 1989
Sandra Burk, M.S. 1990
- 15 Stephania Bolden, M.S. 1990
Lisa Pike, M.S. 1991
Paul Donaldson, M.S. 1991
Patricia Donovan-Potts, M.S. 1993
Lawrence Settle, M.S. 1993
- 20 Robert Toonen, M.S. 1993
Robert Miltner, M.S. 1993
Cartier Esham, M.S. 1994
Eric Barbee, M.S. 1994
Lynn Stemmy, M.S. 1995
- 25 Michael Hosey, M.S. 1997
David Swearingen, M.S. 1996
Francisco Leyva, M.S. 1996
Frank Hernandez, M.S. 1996
Matt Dunlap, M.S. 1997
- 30 Amy Norris, M.S. 1997
John Michael Johnson, M.S. 1998
Troy Alphin, M.S. 1998
Julianne Haddad, M.S. 1998
Christian Preziosi, M.S. 1998
- 35 John Rhoads, M.S. 1998
Tamara Connelly (Chemistry), M.S., 1997
Shelia Greene (Chemistry), M.S., 1997
Andrea Li (Chemistry), M.S. 1996
Jacquie Hilterman (Earth Sciences), M.S., 1998
- 40 Brett Waddell, M.S., 1999
Sebastian Engel, M.S., 2000
Robert Gamble, M.S., 1999
David Wells, M.S., 2001
Mandy Tzannis (Chemistry), M.S., 2000

- 45 Jonathan Hartsell, M.S. 2002
 Susan Avau (Earth Sciences), M.S. 2001
 Andrea Quattrini, M.S. 2002
 Audra Luscher, M.S. 2004
 Meredith Owens, M.S. 2003
- 50 Thomas Molesky, M.S. 2003
 Kim Cressman, M.S. 2003
 Leslie Bradshaw, M.S. 2005
 Virginia Johnson, M.S. 2005
 Amanda Kahn, M.S. 2004
- 55 Dorien McGee, M.S. 2005
 Elizabeth (Fay) Belshe, M.S. 2005
 Heather Young, M.S. 2005
 Carlos Zavalaga, Ph.D.
 Steve Artabanes, M.S. 2006
- 60 Amanda Kahn, Ph.D.
 Joseph Clay Morris, M.S. 2007
 Edward DuRant
 Kim Duernberger
 Tyler Cyronak, M.S., 2007
- 65 Meghan Chafee
 Charles Wilson

Directed Independent Studies (UG, 1997-)

- Melissa Woods, Demersal zooplankton from Stellwagen Bank
 Angela Spiller, Screening bioactive natural products from benthic diatoms
 against marine fungi (spring, 1996)
 Tiffany Foster (S 97), Developing a trophic state index for the Cape Fear River
 Kim Wolfer (S 97), Nutrient concentrations in stormwater pond drainages
 Diana Miller, Jennnie DeNoyer, Eddie Smith (S 97), Nutrient limitation patterns
 in ponds in the Hewletts Creek basin
 Heather Striffler and Wendy King (S 97), Macroalgae as indicators of nutrient
 loading
 Carl Swart (SI 97), Fecal coliform levels in Lake Norman, NC
 Jason Hales (F 97), Mixing rate in Bald Head Creek
 Chris Cruvant and Kelly Saunders (F 97), Evaluation of a hardwood wetland for
 stormwater treatment
 Greg Woodby, Michelle Ortwine (S 98), Nutrient limitation patterns in Hewletts
 Creek drainage
 Dawn Carroll (S 98), Uric acid as a tracer for avian wastes in surface waters
 Josh Hansen, Gwyn McCullough (S 98), Brightening agents as wastewater tracers
 Jason Hales (S 98), Mixing rate in Bald Head Creek
 Chris Cruvant and Kelly Saunders (S 98), Evaluation of a hardwood wetland for
 stormwater treatment
 Mark Wainwright (S 98) Effects of charophytes on phytoplankton in Lake Waccamaw
 Kelly Saunders, (F 98) Evaluation of a hardwood wetland for stormwater
 treatment
 Brad Schroeder, (S 99) Reactive silicate in SBWSA water samples
 Wirth Wells, (S 99) Nutrient availability and limitation in the Northeast Cape
 Fear
 Matthew Lydon, (S 99) Macrophytes in stormwater detention ponds
 Tami Thibodeaux, (S 99) Nutrient limitation in stormwater detention ponds
 Dawn Carroll, (F 99) Tidal exchange in coastal estuaries
 Tatum Neely, (F 99) Tidal exchange in coastal estuaries
 Becky Walker, (S 00) Silicate in rainwater and runoff from undisturbed areas
 Jana Siskind, (S 00) Sediment phosphorus in stormwater ponds
 Gail Siedinski, (S 00) Flushing rate study of Hewletts Creek
 Dennis Dohrman (F 00) Flushing rate of Pages Creek
 John Knowles (S 04) Sediment phosphorus distribution in local watersheds
 Tim Norman (F 04) Feeding rates of oysters
 Melody Knowles (S 06) Sediment phosphorus levels by Mehlich III analyses -
 comparison of lab vs. NC DA measures.
 Melissa Lombardi (S 06) Sediment phosphorus levels by Mehlich III analyses -
 comparison of lab vs. NC DA measures.

April Zilg (S 08) Sediment fecal microbes in NE Cape Fear River

Directed Independent Studies (G, 1997-)

Kathleen Williams, Study of silica content of *Spartina alterniflora*
Zhehong Ying, Nitrogen fixation in stormwater detention ponds
David Rabon, Waterfowl use of stormwater detention ponds
Chris Collura, Role of silicate in estuarine eutrophication
J. Eric Cullum, Meiofauna responses to nutrient enrichment: A mesocosm study
Jason Hales, (S 99) Dye study of flushing rate in Mill Creek
David Guccione, (S 99) Biogenic silica in tidal creeks
Susan Avau, (S 99) Fecal coliform bacteria adsorption to sediments
David Wells, (F 99) HPLC analyses of sediment pigments
Brian Wrenn, (S 00) Storm event effects on nutrient loading in Calabash River
Michael Pester (F 00) Analysis of fecal bacterial diversity
Michael Pester (S 01) Antibiotic resistance patterns in fecal coliform bacteria
James Rabon (S 04) Effects of benthic microalgae on permeability

Honors thesis projects

Rachel Hartwell, "Macroalgal response to nutrient loading" (spring, 1995)
Jill Mikucki, "Pollutant loadings in the Cape Fear River Basin" (spring, 1996)
Christopher Cruvant, "Water quality improvement and stormwater impact assessment of a headwater wetland of Hewletts Creek" (spring, 1999)
Dennis Dohrman, "Studies of retention times in coastal estuaries" (spring, 2002)
Kimberly Fern, "Sediment phosphorus levels in estuarine watersheds" (spring, 2005)
John E. Knowles, "Total sedimentary phosphorus distribution and fractionation in high density agricultural areas in southeastern North Carolina" (spring, 2005)
Alexandra Fries (Spring '08), "Bacterial pigments in swine lagoons"
Johnathan D. Maxey (Spring '08), "Nitrogen isotope indicators of anthropogenic nutrient loading to coastal NC tidal waters"

Honors Committee member:

Jessica Clasen, "Optical effects of thin oil films on the photosynthesis of *Isochrysis galbana*" (spring, 1997)
Shannon Vinson, "Distribution of monooxycarboxylic acids in the Cape Fear River and nearby estuaries" (spring, 1999)
Darin Crew, "Effects assessment of the herbicide 2,4-D on *Ruppia maritima*, widgeon grass, in Von Stosch autotrophic media" (spring, 1999)
Jeanine Miller, "Variations in bivalve growth and survivorship among coastal estuaries" (fall, 1999)
Ashley Skeen, "Silica uptake by smooth cordgrass *Spartina alterniflora* grown under various silicate concentrations" (spring 2000)
Elinor Wicks, "Organic content and water holding capacity of wetland soils of the Northeast Cape Fear River and Cape Fear River" (spring 2002)
Rachel Edmonds, "Determining porewater salinity from bromide ions in Bald cypress growth rings" (spring, 2003)
Leigh Anne Zimmermann "Salinity tolerances of the dinoflagellate, *Gyrodinium instriata*" (spring, 2003)
Jamie A. Catanzaro, "Fundamental concepts of quantum chemistry: A new text for quantum chemistry" (spring, '05)
Markwith, Ann, "Water quality effects on oyster condition in New Hanover County tidal creeks" (spring, 2006)
Matt Lettrich, Biotic versus structural impacts of oysters on water quality (Spring, 2007)
Sean Miller (Spring, 2008)
Colleen Connolly (Spring, 2008) (Mike Messina)
Johnathan Maxey (Spring, 2008) (nominal chair, Craig Tobias)

PROFESSIONAL TRAINING

Culture Course in Marine Phytoplankton (w/R.R.L. Guillard), 1989
SUPELCO Chromatography Seminar, 1986

Institute for Professional Education Scholarship, 1984, 1985
Guest Investigator, Woods Hole Oceanographic Institution, 1983
Summer Postdoctoral Fellow, Mountain Lake Biological Station, 1981, 1982
First Aid/CPR
Boating Course, US Power Squadron, 2001
Laboratory Safety, 2004

RESEARCH DIVING QUALIFICATIONS:

NOAA-NURC certified: Air SCUBA, 1982-, NITROX, 1988-, Dry suit, 1991-
NITROX/dry suit certified to 130 fsw
Over 160 NURC-supervised dives, deepest: 141 fsw

FELLOWSHIPS AND SCHOLARSHIPS

BiosciEdNet (BEN) Scholar, 2006-2008
Institute for Professional Education Scholarships, 1978, 1984, 1985
Robert E. Lee Research Scholarship, 1973-1975
Lees-Eastwick Scholarship, 1971-1975

REVIEWER

Proposals: National Science Foundation, National Undersea Research Program, U. Conn. Avery Point, National Undersea Research Center, UNC Wilmington, NC Biotechnology Center, NC Board of Science and Technology, NC Technological Development Authority, Environmental Protection Agency, National Estuarine Research Reserve, NOAA National Marine Fisheries Service, National Geographic Research Society, "Experiments to Teach Ecology Manual", Ecological Society of America, N.C. Water Resources Research Institute, Univ. So. Cal. Sea Grant, National Undersea Research Center, Mid-Atlantic Bight, UNC Water Resources Research Institute, South Carolina Sea Grant

Journals: J. Exp. Mar. Biol. Ecol., J. Elisha Mitchell Sci. Soc., Deep-Sea Research, J. Plankton Research, Hydrobiologia, Bull. Plankton Soc. Japan, Bull. Mar. Sci., Science, Limnology and Oceanography, Marine Ecology Progress Series, ASB Bulletin, Coral Reefs, Estuarine, Coastal and Shelf Science, Journal of the World Aquaculture Society, Environmental Science & Technology, Acta Agriculturae Scandinavica, Brazilian Journal of Oceanography

Book: Nutrient Dynamics and Biological Structure in Shallow Freshwater and Brackish Lakes, Mortensen et al., Kluwer Academic Publishers

Book: Altered Environments: The North Carolina Outer Banks, University of Georgia Press.

Member, EPA Environmental Biology Panel, 1990-2002

Appointed to Editorial Board of J. Elisha Mitchell Scientific Society, 1992-1995, 1995-1998

Editor of American Academy of Underwater Sciences 12th Annual Symposium Proceedings, "Diving for Science...1992; Member of symposium organizing committee and session chair.

MEMBER: DUNCOC Program Advisory Committee (UNCW representative), 1989-1991

Member, Technical Committee for UNC Water Resources Research Institute, July 1, 1995 - June 30, 1998.

Charter Member: Save Our State (Z. Smith Reynolds Foundation), 1997- (now Sustainable North Carolina)

Member, City of Wilmington Watershed Protection Roundtable, Jan., 1999-2001

NORTH CAROLINA ACADEMY OF SCIENCE:

**Managing Editor, J. North Carolina Academy of Science, 2001-
Chair, Steering Committee: 1996-2006**

PAST PRESIDENT: 1995-1996

PRESIDENT: 1994-1995

PRESIDENT-ELECT: 1993-1994

VICE-PRESIDENT: 1992-1993

CHAIR: Public Affairs and Policy Committee, 1991-1992, reappointed, 1992-1993

CHAIR: ad hoc committee on Mobil Oil proposal for NCAS, 1990-1991

Member of NCAS Board of Directors, 1991-2006

Session Chair (Zoology Section), NCAS annual meeting, 1993

Judge, student papers, NCAS meeting, 1993, 2000, 2001

Member, NCAS Science and Math Education Committee, 1991-1994

CIVIC AND COMMUNITY SERVICE:

Appointed **Chair**, NC Ocean Resources Task Force, 1993-1996

Marine Ecologist, N.C. Ocean Resources Task Force,
Appointed: 1992-

Subcommittee Chair: GIS mapping project

GUBERNATORIAL APPOINTEE:

North Carolina Ocean Affairs Council, 1991-1993

Chair, Committee on Ocean Resources Planning

North Carolina Marine Science Council, 1985-1991

Chair, Planning Committee, 1988

Chair, Policy Committee, 1989

Chair, Issues Planning Committee, 1990-1991

OTHER SERVICE:

TV appearance, CBS News "60 Minutes", "The Power of Pork", July 6, 1997

Expert witness for plaintiff in civil trial (US Clean Water Act), True family v. Pleasant Care Rest Home, Inc., resulting in \$2.5 million settlement for plaintiffs, Feb. 18-21, 2000

Expert testimony, Federal Court, District of South Dakota, Dec. 7, 2001

Interviewed by "Nature of Things" (Canadian television program) on intensive livestock production issues, July 18, 2002

TV appearance, CBS News "60 Minutes", "The Power of Pork", June 22, 2003

Student Award: Rebecca Gerhart: UNCW Graduate School Summer Research Award, 2006

Student Award: Rebecca Gerhart: Center for Marine Science Summer Research Award, 2006

Wrote and graded Biological Oceanography comprehensive exam for Marine Science M.S. program, May 18, 2006

Interviewed on WAAV radio, June 8, 2006

Reviewed manuscript for Journal of Natural Resources and Life Sciences Education, June 14, 2006.

Reviewed manuscript for Aquatic Botany, June 16, 2006.

Interviewed by WAAV radio, July 13, 2006

Reviewed manuscript for Water, Air and Soil Pollution, July 24, 2006

Interviewed by "The Big Talker" radio, August 7, 2006

Interviewed by WAAV radio, August 10, 2006

Panel Member, WHQR screening of "An Inconvenient Truth", Aug. 23, 2006

Guest lecture, "Ecology of estuarine benthic microalgae", BIO 560, Sept. 12, 2006

Reviewed manuscript for Estuarine, Coastal and Shelf Science, Sept. 12, 2006

Reviewed 2nd manuscript for Estuarine, Coastal and Shelf Science, Sept. 13, 2006

Interviewed by WAAV radio (climate change), Sept. 14, 2006

Edited JNCAS 122 (4), Sept. 15, 2006

Completed Lake eutrophication survey for Melissa Kenney, Duke University doctoral student, Sept. 21, 2006

Reviewed manuscript for Limnology and Oceanography, Sept. 21, 2006

Panelist for UNCW SGA discussion of "An Inconvenient Truth", Sept. 23, 2006

Honors class presentation, Sept. 28, 2006

Co-sponsor, NC Conservation Council social, Sept. 28, 2006

Guest Interview, WHQR, Oct. 10, 2006

Interviewed by WAAV radio (E. coli), Oct. 12, 2006

Guest lecture, EVS 570, Oct. 17, 2006

External Ph.D. referee, Alistair Grinham, University of Queensland, Australia, Dec. 5, 2006

Attended founding meeting of the UNCW Lecturer's Society, Oct. 25, 2006

Invited Seminar at Duke University Marine Laboratory, Nov. 1, 2006

Selected as a AAAS/NSF BiosciEdNet (BEN) Scholar, Nov. 6, 2006

Attended CTE workshop: Finding Free Software that Works: Access and Success, Nov. 8, 2006

Interviewed by WAAV radio, future of world fisheries, Nov. 9, 2006

Attended Duke/UNC Oceanographic Consortium meeting, Nov. 17-18, 2006

Edited JNCAS 123 (1), Nov. 27, 2006

Books Read on RR: Collapse, Jared Diamond; The Revenge of Gaia, James Lovelock; Microbial Diversity and Bioprospecting, Alan Bull (ed.); The Phototrophic Bacteria: Anaerobic Life in the Light, J.G. Ormerod (ed.); Our Affair with El Niño, G.A. Philander;

DVD course: Change and Motion: Calculus Made Clear (The Teaching Company)

Reviewed manuscript for Estuarine, Coastal and Shelf Science, Dec. 6, 2006

Edited J NCAS 123 2), Jan. 26, 2007

Interviewed on FM 106.3/103.9, "The Big Talker", Dec. 7, 2006

Participant, BEN Scholars program, Dec. 7-10, 2006

Interviewed on WAAV radio (sewer issues), Dec. 14, 2006

Appointed to EcoEdNet Advisory Board, Jan. 8, 2007

Interviewed on WAAV radio (ENSO and climate change), Jan. 18, 2007

Reviewed EcoEdNet submission for ESA TIEE, Jan. 30, 2007

Interviewed by WAAV radio (sewer issues and global climate change), Feb. 15, 2007

Interviewed on WAAV radio (local sewer issues), March 28, 2007

Session Chair, Environmental Sciences, N.C. Academy of Science Annual Meeting, March 31, 2007

Interviewed on WAAV radio, global warming issues, April 4, 2007

Interviewed on WAAV radio, tropical storm Andrea and beach erosion, May 10, 2007

Interviewed on 106.3 FM "The Big Talker", local water quality issues, May 21, 2007

Graded Biological Oceanography comprehensive examinations for Marine Science program, June 1, 2007.

Opening presentation for UNCW Global Warming Conference: "Living in a warmer world: Heaven or Hell?", June 8, 2007

Workshop presentation for UNCW Global Warming Conference: Biological oceanography and climate change, June 9, 2007

Interviewed on WAAV radio, global warming and hurricane issues, June 12, 2007

Edited J. NCAS 123 (4), June 14, 2007

Interviewed on WAAV radio, local water quality issues, July 3, 2007

Interviewed by WHQR radio, proposed Progress Energy dry coal ash landfill, July 18, 2007

Reviewed manuscript for Journal of Soil and Water Conservation, July 25, 2007

Reviewed proposal for South Carolina Sea Grant, August 10, 2007

Interviewed on WAAV radio, water quality and local boat ramps, Aug. 27, 2007

Edited manuscripts for J. N.C.A.S. 124 (1), Aug. 30, 2007

Introductory speaker, Wilmington Star-News/WHQR forum on water pollution at Camp Lejeune, Aug. 31, 2007.

Hosted Dr. C. Michael Williams as departmental seminar speaker, Sept. 7, 2007.

Discussion participant for showing of "The End of Suburbia" at UNCW Lumina Theater, Sept. 18, 2007

Reviewed manuscript for J. Exp. Mar. Biol. Ecol., Sept. 20, 2007.

Reviewed manuscript for Limnology and Oceanography, Oct. 2, 2007.

Interviewed on WAAV radio, NHC Commissioners punish UNCW scientists, Oct. 16, 2007

Interviewed on BIG TALKER FM, NHC Commissioners punish UNCW scientists, Oct. 18, 2007

Interviewed on BIG TALKER FM, NHC officials lie about UNCW monitoring contract, Oct. 30, 2007

Discussion participant for showing of "End of Suburbia, Part II", Oct. 30, 2007

Elected to Cape Fear River Watch Board, Nov. 3, 2007

Departmental reader for Erin Zook Fleckenstein, Nov. 13, 2007.

Interviewed on WAAV radio, NC DWQ confirms UNCW results, Nov. 15, 2007

Interviewed on WAAV radio, NC DWQ confirms UNCW results, Nov. 16, 2007

Interviewed on BIG TALKER FM, NC DWQ confirms UNCW results and New Hanover County is run by lying scumbags, Nov. 16, 2007

Discussion leader, "Future of Food" (Sustainability film series, Fisher Student Center), Nov. 27, 2007

Edited J.NC Academy of Science 124 (1), Nov. 29, 2007