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Professional Training

NSF Postdoctoral Fellow, Yale University, Marine Chemistry (1972 to 1974)

Ph.D. Florida State University, Chemical Oceanography, NDEA Fellow (1969 to 1972)

M.S. Florida State University, Chemical Oceanography, NDEA Fellow (1968 to 1969)

B.S. Florida State University, Chemistry, Honors Program (1964 to 1968)

Professional Experience

1988-	Distinguished Professor of Marine and Environmental Sciences, UNC-CH 1990-95 Chair, Department of Marine Sciences, UNC-Chapel Hill (Acting Chapel Hill)						
	Spring 1979, 2006, Fall 2007)						
1983-88	Professor of Marine Sciences and Geology, UNC-Chapel Hill						
1978-83	Associate Professor of Marine Sciences and Geology, UNC-Chapel Hill						
1974-78	Assistant Professor of Marine Sciences and Geology, UNC-Chapel Hill						
1984-93	Adjunct Scientist, Woods Hole Oceanographic Institution, Woods Hole, MA						
1983-89	University Associate, U.S. Geological Survey, Reston, VA						
1981-82	Guest Investigator, Woods Hole Oceanographic Institution, Woods Hole, MA						
1972-74	Research Faculty Member, Dept of G&G, Yale University						

Honors

2002	Elected	Fellow	of The	Geoche	emical	Society	and Euro.	Assoc. o	f Org Geochem
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1988- William B. Aycock Endowed Professorship, UNC-Chapel Hill

1998 Best Paper Award in Organic Geochemistry, The Geochemical Society

1995 B. H. Ketchum Award for Leadership in Coastal Research, Woods Hole Oceanographic Institution, Woods Hole, MA

1991 Favorite Faculty Award (given by Senior Class & General Alumni Association)

1987 Elected Chairman, 1987 Chemical Oceanography Gordon Conference

1982 Best Paper Award in Organic Geochemistry, The Geochemical Society

Representative Publications from Ten Environmental Monitoring Projects

- Martens, C.S., H.P. Mendlovitz, H. Seim, L. Lapham, Matt Lowe and M. D'Emidio (2015) Sustained *in situ* measurements of dissolved oxygen, methane and water transport processes in the benthic boundary layer at MC118, northern Gulf of Mexico. *Deep-Sea Res.* (accepted)
- Lapham, L.L., M.J. Alperin, J.P. Chanton, and C.S. Martens (2008). Upward advection rates and dissolved methane and sulfate concentrations at two Gulf of Mexico brine seeps. *Marine Chemistry*, 112, 65-71.
- Lapham, L.L., J.P. Chanton, C.S. Martens, P. D. Higley, H. W. Jannasch and J.R. Woolsey (2008). Measuring long term changes in dissolved ion and gas concentrations and stable isotopes at a hydrate site: Mississippi Canyon 118, Gulf of Mexico. *Environmental Science and Technology*, 42, 7367-7373.

- Moura, J.M.S., C.S. Martens, M.Z. Moreira, R.L. Lima, I.C.G. Sampaio, H.P. Mendlovitz, M.C. Menton. 2008. Spatial and seasonal variations in the stable carbon isotopic composition of methane in stream sediments of eastern Amazonia. *Tellus* 60B: 21-31.
- Lapham, L.L., J.P. Chanton, C.S. Martens, K. Sleeper and J.R. Woolsey. 2008. Microbial activity in surficial sediments overlying acoustic wipe-out zones at a Gulf of Mexico cold seep. *Geochemistry, Geophysics, Geosystems*, 9 (6), Q06001, doi:10.1029/2008GC001944.
- Ingram, W.C, Meyers, S.M., Brunner, C., and Martens, C. (2010). Evaluation of Late Pleistocene-Holocene sedimentation surrounding an active seafloor gas hydrate and cold seep field on the Northern Gulf of Mexico Slope. *Marine Geology*, 278, 43-53.
- Canuel, E.A., and C.S. Martens, 1996. Reactivity of recently-deposited organic matter: Degradation of lipid compounds near the sediment-water interface. *Geochimi. Cosmochim. Acta*, 60: 1793-1806. 1998 Best Paper Award in Organic Geochemistry, The Geochemical Society.
- Martens, C.S., D.B.Albert, and M.J. Alperin, 1999. Stable isotope tracing of methane production and oxidation in the gassy sediments of Eckernforde Bay, German Baltic Sea. *Amer. Journal Science* (Invited paper for R.A. Berner Special Issue) 299: 589-610.
- Martens, C.S. et al., 2004. Radon fluxes in tropical forest ecosystems of Brazilian Amazonia: night-time CO2 net ecosystem exchange derived from radon and eddy covariance methods. *Global Change Biol.* 10: 618-621.
- Martens, C. S. and R. A. Berner, 1974. Methane production in the interstitial waters of sulfate-depleted marine sediments. *Science 185*: 1167-1169.

Synergistic Activities:

Associate Editor/Boards: Geochim Cosmochim Acta (1985-1992); Marine Chemistry (1974-1992; 1995-2005); Limnology & Oceanography (1980-1983); Biogeochemistry (1984-1990), Jour Geophys Research-Oceans (1985-1988); Elected Board Member The Oceanography Society (1997-1999); Scientific Advisory Board, Max Planck Institute for Marine Microbiology (2000-2012)

National Science Foundation Advisory Committees for the Ocean Sciences:

Oversight Committee, Chemical Oceanography (1979 to 1980); Marine Chemistry Panel (1980 to 1982; 1982 to 1984); Manganese Nodule Panel (1982); Scientific Advisory Committee for SEAREX Program (1980 to 1984); U.S. GOFS Panel (1990); Steering Committee, Coastal Ocean Processes (1990 to 1994); Steering Committee, Environmental Geochemistry Program Development (1993 to present); External Advisory Committee for Program Director Search, Chemical Oceanography (1996); Discussion Leader Future of Ocean Chemistry in the US Workshop, (1998); Chemical Oceanography Panel (1998, 2008);

National Academy of Sciences/National Research Council: Subcommittee on Ammonia (1976 to 1977); Subpanel on Fate of Materials, Estuarine Research Perspective (1981 to 1982); NASULGC Board on Oceans and Atmosphere (1993 to present); NRC Ocean Sciences Board Committee on Organic Carbon Irvine, CA (1993) NRC Committee on U.S./Mexico Collaboration for Ocean Science Research (1995 to 1998).

Potential Conflicts of Interest/Collaborators: (Research Colleagues) Andreas Teske, Carol Arnosti, Larry Benninger, Brian White, Niels Lindquist, and Harvey Seim (all at UNC-CH); Laura Lapham, U MD; Samantha Joye UGa; Beth Orcutt, Bigelow; Brian Popp, U Hawaii; Robert Byrne, USF; (Graduate/Postdoctoral Advisors): R.C. Harriss, Robert A. Berner; (PhD/Postdoctoral Advisees) Past 60 Mo: Meredith Kintzing (post-doc), Patrick Gibson, Daniel Hoer, Caleb King, Melissa Southwell, Laura Lapham, Wesley Ingram, Matthew Waters.