

**CURRICULUM VITAE
DAVID J. HOLLANDER**

Date:

March 2013

Personal:

David Jon Hollander
5136 31st Ave. South
Gulfport, FL. 33707

Birthdate: January 30, 1959, New York City, New York
Status: Married Spouse- Alexandra Spengler-Hollander
Son- Jonah Miro Hollander

Research Interests:

Isotopic Biogeochemistry
Organic Geochemistry
Paleoceanography and Paleolimnology
Chemical Sedimentology
Petroleum Geochemistry

Education:

1984-1989; Swiss Federal Institute of Technology, ETH-Zurich, Switzerland; Ph.D. Naturwissenschaft (Natural Sciences); Advisors: Kenneth J. Hsu, Judith McKenzie, and Mirelle Vandenbroucke; Thesis Title: Carbon and Nitrogen Isotopic Cycling and Organic Geochemistry of Eutrophic Lake Greifen: Implication for Preservation and Accumulation of Ancient Organic-Carbon-Rich Sediments.

1982-1984; University of California/Santa Cruz; M.S. Earth Sciences; Advisors: Robert E. Garrison, Robert Coe, and J. Casey Moore; Thesis Title: Origin of Secondary Carbonates, Diagenesis of Organic Matter, and Source Bed Evaluation, Tertiary Basinal Units, La Honda Basin, Santa Cruz Mountains, California.

1977-1982; University of California/San Diego in cooperation with Scripps Institution of Oceanography, B.S. Chemistry with Specialization in Earth Sciences; Advisor: Miriam Kastner.

Awards, Honors, Recognitions and Fellowships:

- 2012: Gordon Research Conference on Organic Geochemistry, Session Leader
“STEM Catalyst Collaborative Partnership Award” from the ARCS
Foundation Tampa Bay Foundations for research in response to the
DwH blowout event.
- 2011: Gordon Research Conference in Chemical Oceanography, Keynote Lecture
Smithsonian’s National Museum of Natural History, Keynote Lecture
National Science Teachers Association, National Convention, Keynote

Lecture

- St. Petersburg Times, Top 10 Leaders in the Tampa Bay Region 2010
 2006- Gulf of Mexico Alliance – Steering Committee, Keynote Lecture
 1993: David and Lucile Packard Fellowship Nominee: College of Arts and Sciences Candidate in the Natural Sciences; Northwestern University.
 1990: Gordon Conference on Organic Geochemistry; Keynote Lecture.
 1989-1991: European Communities Post-Doctoral Fellowship: First Award.
 1986-1989: Swiss National Fund Doctoral Fellowship.

Professional Experience

- 2000-Present: Associate Professor, College of Marine Sciences, University of South Florida, St. Petersburg, Florida. (Tenure awarded June 2004)
 1997-2000: Joint Faculty Appointment, Department of Civil Engineering, Northwestern University, Evanston, Illinois.
 1992- 2000: Assistant Professor, Department of Geological Sciences, Northwestern University, Evanston, Illinois.
 1991-1992: Post-Doctoral Researcher, Departments of Chemistry and Geology, Indiana University/Bloomington, Indiana.
 1989-1991: Post-Doctoral Researcher, Direction Geologie et Geochimie, Institut Français du Pétrole, Rueil-Malmaison, France.
 1986-1989: Research Assistant, Geologisches Institut, Swiss Federal Institute of Technology, ETH-Zurich, Switzerland.
 1986: Research Expedition Scientist, Galapagos Islands, Ecuador
 1985-1986: Teaching Assistant, Geologisches Institut, Swiss Federal Institute of Technology, ETH-Zurich, Switzerland.
 1982-1984: Research Assistant, Earth Science Board, University of California, Santa Cruz.

Geologic, Limnologic and Oceanographic Field Experience:

- 2012 Orca Basin, Gulf of Mexico (R/V Pelican), Chief Scientist.
 Northern Gulf of Mexico, BP DWH Site (R/V Weatherbird II)- Chief Sci.
 2011 Northern Gulf of Mexico, BP DWH Site (R/V Weatherbird II)- Chief Sci.
 2010 Northern Gulf of Mexico, BP DWH Site (R/V Weatherbird II)- Chief Sci.
 Amazon River Fan, Equatorial Atlantic, (R/V Knorr), Co-Chief Scientist
 2009 Cariaco Basin, Venezuela,
 2008 Lake Tulane Sediment Coring Expedition (with USGS), Chief Scientist
 2007 Garrison and Fisk Basins, Gulf of Mexico (R/V Pelican)
 2006-Present Desert Pools, Cuatro Ciénegas, Chauhilla, Mexico
 2004-Present Tidal Rivers Estuaries, West-Central Florida
 2003-2004: West Florida Shelf, (R/V Bellows), Co- Chief Scientist.
 2002-Present Everglades, Big Cypress, Florida Bay and Keys , Co-PI.
 2002-2003: Orca Basin, Gulf of Mexico (R/V Suncoaster, Longhorn), Chief Scientist.
 2001-Present: Lake Tulane, Highland County, FL, PI.
 2001-Present: Lake Maggiore, Pinnellas County, FL, PI.
 2000-Present: Tampa Bay (R/V Gilbert and other boats), FL.
 1996-1999: Lake Michigan, WI (R/V Neeskay; R/V Lake Guardian),
 Lake Mendota, WI, and Trout Lake, WI.
 1996: Orca Basin, Gulf of Mexico (R/V Longhorn).

- 1994-1995: Sargasso Sea and Gulf Stream Cruise Series, (R/V Cape Hatteras). Devonian Basinal Formations, Appalachian Basin, New York.
- 1993: Lake Mendota, WI.
- 1990-1992: Santa Monica Basin Cruise Series, (R/V Sea Watch), Chief Scientist.
- 1990: Kimmeridge Clay Formation, Dover, England.
Mulhouse Evaporite Basin, Alsace, France.
Toarcian Shales, Paris Basin, Central France.
- 1986-1989: Lakes Greifen, St. Moritz, Lugano and Lake Lucerne, Switzerland.
- 1986: Urvina Bay, Galapagos Archipelago, Ecuador.
- 1982-1984: Cenozoic Basinal Fms., Santa Cruz Mountains, California.
Monterey Fm., Coastal Southern and Central California.

Research Support:

Funded Grant Proposals: Current

- Hollander, D.J., Solar forcing of ice-rafting in the North Atlantic during the Holocene? NSF, Marine Geology and Geophysics (OCE-0961670, \$119,99) and awarded supplemental support in February 2012 (OCE-1258984, \$22,908), 7/2010 – 7/2013, (Hollander PI). Active
- Murawski, S. and Hollander, D.J., Center for the Integrated Modeling and Analysis of the Gulf Ecosystem C-IMAGE, Gulf of Mexico Research Initiative (GRI) and the Center for Ocean Leadership, \$11,000,000 (Hollander portion is \$854,813), 10/1/2011 – 9/30/2014, Active.
- Chassignet, E with 12 others including Flower, B. and Hollander. D.J., Deep Sea to Coast Connectivity in the Eastern Gulf of Mexico (Deep-C), Gulf of Mexico Research Initiative (GRI) and the Center for Ocean Leadership, \$22,000,000 (aHollander portion \$743,804), 10/1/2011 – 9/30/2014, Active.
- Hollander, D.J., Holocene ice-rafting variability in the North Atlantic. Comer Science and Educational Foundation (CP75- \$60,84), 7/2010 – 7/2013, Active (Hollander PI after B. Flower passed away July 2013)
- Hollander, D.J., Patterson, W., Kane, A. and James, M., Effect of the Deepwater Horizon Oil Spill on Fish Communities Associated with Artificial Reefs off Northwest Florida, Florida Fish and Wildlife, \$354,308, 9/1/2011-3/31/2013. Active.
- Peebles, E.B., T.S. Switzer, D.L. Jones, and D.J. Hollander, Use of otolith microchemistry to improve fisheries-independent indices of recruitment for gag (*Mycteroperca microlepis*): Linking estuarine nurseries to nearshore reefs in the eastern Gulf of Mexico, NOAA- MARFIN, \$315,000. 8/10-7/13. Active.
- Hollander. D.J., (w/Baker, P. and Dwyer, G.- Duke U.), Collaborative Research: Reconstruction of a continuous, high-resolution record of late Quaternary paleohydrology and paleoclimate of the Amazon basin, NSF- Paleo Perspectives on Climate Change (P2C2) , \$250,305, 9/08- 9/13. Active.
- Hollander, D., Determining the Chemical Composition, Concentration, Physical Dimension, and Spatial Extent of the Subsurface Oil Plumes and Associated Dispersant in the Northern Gulf of Mexico and the West Florida Shelf, FIO BP-10 M, \$178,000, 9/10 – 10/12. Active.

- Hollander, D., Goddard, E. Hallock Muller, P., Brooks, G., Hastings, Collins, L., Assessing the impact of Deepwater Horizon oil and dispersants on sediments and benthic communities on the West Florida Shelf and Slope, FIO BP-10 M, \$178,000, 9/10 – 9/12. Active.
- Torres, J., and Hollander, D., "RAPID Deepwater Horizon Oil Spill: Impact of sub-surface oil plumes on mesopelagic micronekton", NSF-Rapid Response Funding, \$147,696, 7/10- 7/12. Active.

Funded Grant Proposals: Expired

- Hollander, D.J., Natural Climatic Forcing and Mississippi River Discharge as a Control on the Development of the Louisiana “Dead Zones”, International Plant Nutrition Institute. \$50,000 award directed through USF foundation, 4/07- 10/10, Ended.
- Peebles, E., Hollander, D.J., Swarzenski, P. Locker, S. and Brooks, G, Areal extent, source and ecological status of muck sediment accumulation in Safety Harbor, Tampa Bay, Tampa Bay Estuary Program, \$150,000, Hollander budget of \$25,000, 12/06-6/09. Ended.
- Ellis, G, and Hollander, D.J., Carbon and Nitrogen Isotopic Linkages Between Water-Column Particulates and Benthic Primary Consumers as a Means of Assessing Current and Historical Estuarine Trophic Conditions in Southwest Florida, NOAA-NERR, \$40,000, 4/06-12/09. Ended
- Hollander, D.J. and Poore, R.Z., , Holocene Climate Variability in the Gulf of Mexico: A Marine Sediment Perspective, USGS, \$25,000, 4/07-12/08. Ended.
- Hollander, D.,J. and Van Vleet, .E., Evaluating the Long Term Influence that Anthropogenic Inputs have on the Biogeochemical Cycling of Carbon and Nitrogen and on the Planktic and Benthic Bioassemblages in Tampa Bay, FL, United States Geological Survey \$132,000, 3/03-12/08, Ended.
- Breitbart, M. and Hollander, D.J., Impact of human activity on microbes associated with living stromatolites in Cuatro Cienegas, Mexico. National Geographic Society, \$20,000, 12/06-5/08, Ended
- Peebles, E. and Hollander, D.J., Assessment of the Value of Small Tidal Streams, Creeks, and Backwaters as Critical Habitats for Nekton in the Tampa Bay Watershed; Trophic Pathway Identification Using Stable Isotopes, Florida Fish and Wildlife Conservation Commission, \$35,000, 8/07-10/08. Ended
- Tampa Bay Estuary Program and Hollander, D.J., Tampa Bay Tidal Tributary Habitat Initiative, Submitted to National Fish and Wildlife Foundation, total \$310,000, Hollander budget of \$30,000, 4/05-10/07, Ended.
- Heil, C., Hollander, D.J., and Glibert, P., From Source to Sink: Linking Inorganic and Bioavailable Organic Nutrients to Microbial Dynamics in Florida Bay, NOAA-Coastal Oceans Program, \$327,000 (Hollander portions is \$70k/year), 4/04-3/07.
- Hollander, D.J and Peebles, E., Determining the Nutrient Sources and Primary Producers Supporting Upper Trophic Levels in Tampa Bay: A Multiple Stable Isotope Approach to Ecosystem Analysis and Modeling, United States Geological Survey \$27,000, 4/05-6/06, Ended.
- Hollander, D.J., and R. Poore, Coastal Zone Eutrophication and the Mississippi dead Zone, United States Geological Survey \$9,000, 6/04-10/06, Ended.

- Hollander, D.J. and Peebles, E., A data collection program to document primary producer importance to estuarine nursery function in west-central Florida and relationships with minimum flows: A Stable Isotopic Perspective, South West Florida Water Management District, \$40,000, 5/03-1/06, Ended.
- Short, R., Kibelka, G., Byrne, R., and Hollander, D., Development of an *In-Situ* Mass Spectrometer for Stable Isotope Analyses, Office of Naval Research \$400,000, 2/02-9/06, Ended.

Pending Grant Proposals:

- Hollander, D.J. (w/ R. Murray- U. Boston), Collaborative Research: A Coupled Molecular Organic and Inorganic Geochemical Perspective on South American Climatic Changes over the Late Holocene as Recorded in Cariaco Basin sediments, NSF-P2C2 ~\$300,000, Submitted 10/12

Recent Proposal Rejections (Late 2008-2012)

- Fries, D and Hollander, D.J., Persist and Long Range Automated Adaptive Sampling System for Characterization of Oil Impacted Ecosystem Chemistry, Microbiology and Mircoparticles: A Single Technology for Rapid Response and Long Term Monitoring, Gulf of Mexico Research Initiative (GRI) and the Center for Ocean Leadership, \$891,570 Submitted 6/2012, Rejected 10/2012.
- Hollander, D.J. (w/ R. Murray- U. Boston), Collaborative Research: A Coupled Molecular Organic and Inorganic Geochemical Perspective on South American ITCZ Hydrology over the past 1,000 years (Late Holocene) Recorded in the Cariaco Basin, NSF-MG&G, \$283,000, Submitted 2/2011, Rejected 7/12.
- Guenther, C., T.S. Switzer, R.E. Matheson, Jr., E. Peebles, D.J. Hollander, A multi-decadal examination of changes in community structure on the west Florida shelf: the Hourglass program revisited, NOAA-NMFS & NSF-Cameo, \$920,872, August 1, 2010 – July 31, 2013, Submitted 4/10, Rejected 10/10.
- Hollander, D., and Peebles, E., Developing a Stable Isotopic Baseline to Assess Future Changes in Carbon and Nitrogen Sources Supporting Primary Production and Upper Trophic Levels Associated with the Ongoing Deep Water Horizon Spill, FIO BP 10M, Submitted 7/2010, Rejected 8/2010.
- Hollander, D.J. (w/ R. Murray- U. Boston), Collaborative Research: A Coupled Molecular Organic and Inorganic Geochemical Perspective on South American Terrestrial Hydrology over the past 1,000 years (Late Holocene) Recorded in the Cariaco Basin, NSF-P2C2, \$362,262, Submitted 10/09, Rejected 3/10.
- Flower, B., D.J., Hollander, Acquisition of a GEOTEK multi-sensor core logger (MSCL) for natural and anthropogenic environmental change research, NSF Earth Sciences – Instrumentation and Facilities, \$308,123, Submitted 9/09, *Rejected 3/10*.
- Peebles, E., D.J. Hollander (w/ G. Guillien-U. Houston), Anthropogenic nitrogen contributions to estuarine productivity; a stable-isotope comparison of Gulf of Mexico estuaries, EPA- Gulf of Mexico Alliance Regional Partnership Projects, EPA-GM-2009-1, 899,320, Submitted 8/09, Rejected 2/09.

- Hollander, D.J. and M. Breitbart, Microorganisms and Chemical Processes Associated with Carbonate Biomineralization in Modern Freshwater Microbialites, NSF- Geobiology, \$325,076, Submitted 8/08, Rejected 2/09.
- Hollander, D.J. and Peebles, E.B., Isotopic Identification of Land-Use-Based Nitrogen Pathways and their Effects on the Size Spectra and Community Structure of Downstream Organisms, NSF- Dynamics of Coupled Natural and Human Systems (CNH), \$350,000, Submitted 7/08, Rejected, 12/08.
- Hollander, D.J. and Peebles, E.B., Isotopic Identification of Land-Use-Based Nitrogen Pathways and their Effects on the Size Spectra and Community Structure of Downstream Organisms, NSF- Ecosystem Studies, \$354,612, Submitted July 2008, Rejected, 12/08.
- Hollander, D.J. and Paul, J.P. (with J. Thompson), Collaborative Research on the Biogeochemistry of Ooids: Assessing the Role of Microbes in Ooid Formation, NSF- Marine Geology and Geophysics, \$92,498, Submitted 8/08, Rejected, 12/08.
- Peebles, E., Hollander, D.J., Weisberg, R., Muller-Karger, F., Support for ecosystem-based management of Florida's aquatic resources, Legislative Budget Request (2008-09) with the USF Academic Affairs, estimated cost ~\$3,000,000, Submitted 2/08, Rejected 9/08.

Shiptime Support

- Hollander, D. (Chief Scientist) and Murawski, S., Gulf of Mexico Research Initiative (GoMRI) funded USF lead consortium Center for the Integration and Modeling of the Gulf Ecosystem (C-IMAGE). Northern Gulf of Mexico R/V Weatherbird II, August 2-17, 2012 (15 days @ \$9.5K/day ~ \$135K).
- Hollander D.J and Pagani, M. Orca Basin (Multi-and gravity-coring, water sampling and BP oil spill (multicore deployment and core processing), R/V Pelican, Cocodrie, LA, April 1-7, 2012. (6 days @ \$10K/day ~ \$60K).
- Hollander, D., In support of FIO- BP 10Million funded research entitled "Determining the Chemical Composition, Concentration, Physical Dimension, and Spatial Extent of the Subsurface Oil Plumes and Associated Dispersant in the Northern Gulf of Mexico and the West Florida Shelf", FIO support for R/V Weatherbird II, May 10-20, 2011 (10 days @ \$7.5K ~ \$75K).
- Hollander, D., In support of FIO- BP 10Million funded research entitled "Determining the Chemical Composition, Concentration, Physical Dimension, and Spatial Extent of the Subsurface Oil Plumes and Associated Dispersant in the Northern Gulf of Mexico and the West Florida Shelf", FIO support for R/V Weatherbird II, Dec 1-10, 2010 (10 days @ \$7.5K ~ \$75K).
- Hollander, D., USF Foundation supported research focusing on the search for subsurface and sedimentary oil, R/V Weatherbird II, August 6 – 16, 2010 (10 days @ \$7.5K ~ \$75K).
- Baker, P. and D.J. Hollander, In support of NSF-P2C2 funded research entitled "Reconstruction of a continuous, high-resolution record of late Quaternary paleohydrology and paleoclimate of the Amazon basin", UNOLS support for the R/V Knorr, 2/19/2010 – 3/12/2010 (22 days @\$50K ~\$1.1 Million), 2009.
- Hollander, D. J. and Flower, B., Evaluating the Role of Production, Recycling and Redox-Dependent Biogeochemical Processes on the Geochemical Signals Preserved

in the Waters and Sediments of the Orca Basin, Gulf of Mexico, 10 days of ship time on the R/V Longhorn, University of Texas, Cruise June 2003.

Flower, B., Hastings, D. and Hollander D., Water Column and Sediment Sampling on the West Florida Shelf: Testing Paleoceanographic Proxies, R/V Bellows, Planned August 2003 and February 2004.

Hollander, D. J. and Flower, B., Evaluating the Role of Production, Recycling and Redox-Dependent Biogeochemical Processes on the Geochemical Signals Preserved in the Waters and Sediments of the Orca Basin, Gulf of Mexico, Florida Institution of Oceanography, Funded 10 days of ship time on the R/V Suncoaster, 8/02.

Funded Grant Proposals: While at Northwestern Univ. (1992-2000)

D.A. Stahl, D.J. Hollander, and K. Neelson, Molecular Measures of Microbial Community Structure in Relationship to Sediment Biogeochemistry, NSF-Ecology, \$300,000, 6/97-5/2001, In collaboration with the Department of Civil Engineering, McCormick School of Engineering and the University of Wisconsin-Milwaukee.

B. Sageman, D.J. Hollander, Organic Carbon Burial, Anoxia, and Ecologic-Evolutionary Events in the Appalachian Basin During the Late Devonian (Givetian-Famenian), NSF-Earth Sciences: Geology and Paleontology Program, \$160,000, 11/97-11/2001, Collaborators T.W. Lyons and C.E. Brett.

D.J. Hollander, Biogeochemical Processes and Carbon Cycling in Acid and Alkaline Lakes, Wisconsin: A Comparative Sedimentary Geochemical Study, United States Geological Survey, \$30,000, 5/97-4/98.

K.A. Gray, and D.J. Hollander, Carbon Cycling in a Riparian Wetland of the Des Plaines River, Wetlands Research Inc., \$9,000, 6/97-6/99

D.J. Hollander, Comparative Organic and Isotopic Geochemical Study of Oxic and Anoxic Sediments from the Saanich Inlet, British Columbia, Petronas Inc. (Malaysian National Oil Company), \$7,800, 6/97-9/97.

D.J. Hollander, Reconstructing 4th Millenium B.C. Mesopotamian Trade Routes: The Novel Application of Stable Isotopic and Organic Geochemical Analyses to Archeological Studies, Northwestern University Research Grant, \$5,000, 9/98 - 8/99.

B.B. Sageman, D.J. Hollander, and T.W. Lyons, Origin, Character, and Stratigraphic Hierarchy of Organic Carbon-Rich Siltstones in the Brushy Canyon Formation (Guadalupian), Consortium of Petroleum Companies (5), \$81,375, 9/97-8/98

D.J. Hollander, The Role of Water Column Oxygenation, Salinity, and Microbial Processes on the Preservation of Marine Organic Matter in the Orca Basin, Gulf of Mexico, Northwestern University Research Grant, \$4,600, 12/96-11/98.

D.J. Hollander, Anthropogenic Modification of Organic-Inorganic Carbon Burial Rates in Alkaline Lakes in Wisconsin, United States Geological Survey, \$8,000, 6/98 - 11/98

D.J. Hollander, D.A. Stahl, and J. -F. Gaillard, Development and Acquisition of Water Column Filtration Devices for Field Studies in the Aqueous Environments, \$7,000, Northwestern University Environmental Council Grant, 7/96-6/98, (in collaboration with the Department of Civil Engineering, McCormick School of Engineering).

B.B. Sageman and D.J. Hollander, Development of a Greenhouse Archive: Fundamental Contribution to Present and Future Research in the Geological Sciences, \$7,000, Northwestern University Environmental Council Grant, 7/96-6/98.

M.L. Fogel (Carnegie Institution), M.H. Pearl (University of North Carolina/Chapel Hill), and D.J. Hollander, Research Experience for Undergraduates Supplement in

- association with ongoing project entitled “Role of Atmospheric Nitrogen Deposition on Estuarine and Coastal Eutrophication and Ecosystem Food Chain Dynamics”, NSF- Environmental Biology: Program in Ecosystem Studies, \$20,000, 4/95-3/96.
- B. E. Rittmann, D.A. Stahl, and D.J. Hollander, Innovative Evaluation Methods for Bioremediation, Illinois Hazardous Waste Research and Information Center, \$125,000, 6/94-5/96 (in collaboration with the Department of Civil Engineering, McCormick School of Engineering).
- G.E. Birchfield and D.J. Hollander, Nonequilibrium Climate Change: The Role of Inter-Component Feedbacks, National Science Foundation-Atmospheric Science: Climate Dynamics Program, \$250,000, 4/94-3/97.
- D.J. Hollander, Sedimentologic, Isotopic and Organic Geochemical Indicators of Changing Aquatic Environments and Regional Climate in Sediments from Lake Mendota, Wisconsin, Northwestern University Research Grant, \$5,000, 11/93-10/94.
- D.J. Hollander, J.M. Hayes, L.M., Pratt, S.G., Wakeham, Isotopic Studies of the Biogeochemical Cycle of Carbon: Relationships between pCO₂ and the Abundance of ¹³C in Sedimentary Organic Matter, Department of Energy/ National Institute for Global Environmental Change (NIGEC), \$70,000, 10/92-9/94

Peer Reviewed Publications

In Review/Submitted:

- Romero, I.C., Schwing, P.T., Larson, R.A., Brooks, G.R., Hastings, D.W., Hollander, D.J., Effects of the Deepwater Horizon Oil Blowout on Deep Sea Benthic Foraminifera in the Northeastern Gulf of Mexico. Submitted to *Deep Sea Research*, 2013.
- Brooks, G., Larson, R., Flower, B., Hollander, D., Schwing, P.T., Romero, I., Moore, C., Reichart, G.J., Jilbert, T., Chanton, J., Hastings, D., Sedimentation Pulse in the NE Gulf of Mexico Following the 2010 DWH Blowout, Submitted to *Deep Sea Research*, 2013.
- Schwing, P.T., Flower, B.P., Romero, I.C., Brooks, G.R., Larson, R.A., Hollander, D.J., Hastings, D.W. Effects of the Deepwater Horizon Oil Blowout on Deep Sea Benthic Foraminifera in the Northeastern Gulf of Mexico. Submitted to *Deep Sea Research*, 2013.
- Ellis, G., Peebles, E. and Hollander, D.J., Detection of ontogenetic diet shift using compound-specific amino acid nitrogen isotopic analyses: A case study of silver perch, *Bairdiella chrysoura*. Submitted to *Limnology and Oceanography*, 2013.
- Lorenzoni, L., F. E. Muller-Karger, C. Benitez-Nelson, P. Baker, D. Hollander, E. Montes, Claudia Zell, Cleverson Silva and Kara Radabaugh. Biogeochemistry of the Amazon continental shelf and sediment transport during February-March, 2010. Submitted to *Cont. Shelf Research*, 2012.
- Quintana-Rizzo E., Torres J.J., Ross S.W., Romero I.C., Watson K., Goddard E., and Hollander D. *Submitted*. Changes in $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in deep-living fishes and shrimps after the Deepwater Horizon oil spill, Gulf of Mexico. Submitted to *Environmental Research Letters*, 2012.
- Nace, T., P.A. Baker, G.S. Dwyer, L. Giosan, C. R. Silva, D.J. Hollander, C. Rigsby, S. Burns, Paleohydrology of the Amazon Basin and

paleoceanography of the western tropical Atlantic, Submitted to *Geology* 2012.

Radabaugh, K.R., Malkin, E.M. Hollander, D.J., and Peebles, E.B., Evidence for light-environment control on carbon isotope fractionation by benthic microalgal communities, Submitted to *MEPS*, 2012.

Nace, T., P.A. Baker, G.S. Dwyer, L. Giosan, C. R. Silva, D.J. Hollander, C. Rigsby, S. Burns, Rapid millennial scale changes in the hydrology of the Brazilian Nordeste and oceanography of the western tropical Atlantic throughout the past 110,000 years, Submitted to *GSA Bulletin*, 2012.

Malkin, E.M., Hollander, D.J., and Peebles, E.B., Parallel nitrogen cycling in Florida tidal rivers and streams: Selective decomposition supports higher trophic levels, Submitted to *Limnology and Oceanography*, October 2011 (Still in review).

Peebles, E.B., and Hollander D.J., Isotopic evidence of seasonal and geographic light-environment control of planktonic and benthic primary producers supporting coastal fish, shrimp and crab biomass; Relevance to ecosystem-based management, Submitted to *Limnology and Oceanography*, October 2011 (Still in review).

Lai, L., R.H. Tykot, E. Usai, J.F. Beckett, R. Floris, O. Fonzo, E. Goddard, D. Hollander, M.R. Manunza, A. Usai Diet in the Sardinian Bronze Age: models, collagen isotopic data, issues and perspectives, Submitted to the *Proceedings of the conference on The Bronze Age* held in Aix en Provence, France, November 2011 (Still in review).

In Press:

Published:

ScienceMagazine: News and Analyses, 2013, BP Research Dollars Yield Signs of Cautious Hope, www.sciencemag.org, 8 FEBRUARY 2013 VOL 339 SCIENCE

Nature News and Comments Article: Dirty blizzard buried Deepwater Horizon oil, 26 January 2013, *Nature* doi:10.1038/nature.2013.12304

Lorenzoni, L., C. Benitez-Nelson, R. C. Thunell, D. Hollander, R. Varela, Y. Astor and F. E. Muller-Karger. 2012, Potential role of event-driven sediment transport on sediment accumulation in the Cariaco Basin, Venezuela. *Mar. Geol.* doi:10.1016/j.margeo.2011.12.009.

Nitti, A., C. Daniels, J. Siefert, V. Souza, D. Hollander, M. Breitbart, 2012, Spatially-resolved genomic, molecular organic, and stable isotopic analyses of an actively-accreting freshwater microbialite from Cuatro Ciénegas, Mexico, *Astrobiology* Volume 12, Number 7, DOI: 10.1089/ast.2011.081).

Montes, E., F. Muller-Karger, R. C. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto and L. Lorenzoni. 2012. Vertical fluxes of particulate biogenic material through the euphotic and twilight zones in the Cariaco Basin, Venezuela. *Deep-Sea Res. I*, 67: 73-84. DOI: 10.1016/j.dsr.2012.05.005).

Richey JN, Poore RZ, Flower BP, and Hollander DJ, 2011, Ecological controls on the shell geochemistry of pink and white *Globigerinoides ruber* in the

- northern Gulf of Mexico: Implications for paleoceanographic reconstruction. *Marine Micropaleontology*, doi:10.1016/j.marmicro.2011.10.002
- Joye S.B., I. Leifer, I.R. MacDonald, J.P. Chanton, C.D. Meile, A.P. Teske J.E. Kostka, L. Chistoserdova, R. Coffin, D.J. Hollander, M. Kastner, J.P. Montoya, G. Rehder E. Solomon, T. Treude and T.A. Villareal, 2011, Technical Comment on “A Persistent Oxygen Anomaly Reveals the Fate of Spilled Methane in the Deep Gulf of Mexico” by Kessler et al., *Science*.
- Richey, J., Flower, B., Hollander, D.J and Eglinton, T., 2011, Merging Molecular Organic and Foraminiferal-Based Sedimentary Geochemical Records of Gulf of Mexico SST, *Paleoceanography*, doi:10.1029/2010PA002000
- Lorenzoni, L., Thunell, R.C., Benitez-Nelson, C., Hollander, D., Martinez, N., Tappa, E., Varela, R., Astor, Y., and Muller-Karger, F.E. 2009, The importance of subsurface nepheloid layers in transport and delivery of sediments to the Eastern Cariaco Basin, Venezuela. *Deep Sea Research. I*. doi:10.1016/j.dsr.2009.08.001.
- Richey, J., Poore, R.Z., Flower, B., Hollander, D.J., Quinn, T.E., 2009, Regionally coherent LIA Cooling in the Atlantic Warm Pool, *Geophysical Research Letters*, Vol. 36, L21703, doi:10.1029/2009GL040445.
- Short, R.T., Byrne, R.H., Hollander, D.J., Schijf, J., Toler, S.K., and VanVleet, E.S., 2009, Application of Mass Spectrometry in Oceanography In *Mass Spectrometry: Instrumentation, Interpretation and Applications*, Eds. R. Ekman, J. Silberring, A. Westman-Brinkmalm and A. Kraj, Wiley and Son, p. 235-242.
- Breitbart, M., A. Hoare, A. Nitti, J. Siefert, M. Haynes, E. Dinsdale, R. Edwards, V. Souza, F. Rohwer, D.J., Hollander, 2009, Metagenomic and stable isotopic analyses of modern freshwater microbialites in Cuatro Ciénegas, Mexico *Environmental Microbiology*, 11(1), p. 16–34.
- Walsh, J.J., Weisberg, R., Lenes, J.M. , Chen, F.R., Dieterle, D.A., Zheng, L., Carder, K.L., Vargo, G.A., Havens, J.A., Peebles, E., Hollander, D.J., He, R., Heil, C.A., Mahmoudid, B., Landsberg, J.H., 2009, Isotopic evidence for dead fish maintenance of Florida red tides, with implications for coastal fisheries over both source regions of the West Florida shelf and within downstream waters of the South Atlantic Bight , *Progress in Oceanography*, 80, p. 51–73.
- Lorenzoni, L., Muller-Karger, F.E. Thunell, R.C., Tappa, E., Benitez-Nelson, C., Hollander, D., Varela, R., Astor, Y., and Hu, C., 2008, The importance of subsurface nepheloid layers in transport and delivery of sediments to the Eastern Cariaco Basin, Venezuela, *IMBER Science Highlights*.
- Werne, J.W., Lyons, T.W., Hollander, D.J., Schouten, S., Hopmans, E.C., Sinninghe Damste, J.S., 2008, Investigating pathways of diagenetic organic matter sulfurization using compound-specific sulfur isotope analysis, *Geochimica et Cosmochimica Acta* 72, 3489–3502
- Schwartz, M. and Hollander, D.J., 2008, Bulk stable carbon and deuterium isotope analyses of bitumen artifacts from Hacinebi Tepe, Turkey: reconstructing broad economic patterns of the Uruk expansion, *Journal of Archaeological Science*, 35, p.3144-3158.
- Peebles, E.B., S.E. Burghart and D.J. Hollander, 2007., Causes of interestuarine variability in bay anchovy (*Anchoa mitchilli*) salinity at capture. *Estuaries and Coasts* 30(6): 1060-1074

- T. Cronin, N. T. Edgar, G. Brooks, D. Hastings, R. Larson, A. Hine, S. Locker, B. Suthard, B. Flower, D. Hollander, J. Wehmiller, D. Willard, and S. Smith, 2007, Sea Level Rise in Tampa Bay, *Eos*, Vol. 88, No. 10, .
- Lai, L., R.H. Tykot, J.F. Beckett, R. Floris, O. Fonzo, E. Usai, M.R. Manunza, E. Goddard & D. Hollander. 2007 *Interpreting Stable Isotopic Analyses: Case Studies on Sardinian Prehistory*, in M.D. Glascock, R.J. Speakman & R.S. Popelka-Filcoff (eds.), *Archaeological Chemistry: Analytical Techniques and Archaeological Interpretation*, pp. 114-136. Washington, DC: American Chemical Society: 2007.
- Osterman, L.E., Swarzenski, P.W., and Hollander, D.J., 2006, Biological, physical and geochemical data from Gulf of Mexico Core PE0305-GC1: U.S. Geological Survey Data Report 2006-XXXX (paper copy 27p.) <http://pubs.usgs.gov/of/2005/XXX>.
- Hill, H.W., Flower, B.P., Quinn, T.M., Hollander, D.H., and Guilderson, T.P., 2006, Laurentide Ice Sheet meltwater and abrupt climate change during the last glaciation, *Paleoceanography*, v. 21, no. 1, PA1006.
- Schwartz, M. and Hollander, D.J., 2006, Boats, Bitumen and Bartering: The use of utilitarian good to track movement and transport in ancient exchange systems, Joint Publication by. In: Robertson, E.C., Seibert, J.D., Fernandez, D.C., Zender, M.U. (Eds.) *Space and Spatial Analysis in Archaeology*, The University of New Mexico Press and University of Calgary Press, Albuquerque, pp. 323–330.
- Haven, J.A., Heil, C.A., Hollander, D.J., Vargo, G., Ault, D., Murasko, S., and Walsh, J.J., 2005, Investigation of nutrient sources supporting a *Karenia brevis* bloom in the West Florida shelf using $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ stable isotopic analyses, *10th Annual International Conference on Harmful Algal Blooms*,
- L. Lai, R.H. Tykot, M.R. Manunza, E. Usai, E. Goddard, D. Hollander. 2005, *Dieta e Società a Is Calitas (Soleminis): Il Contributo degli Isotopi Stabili*. In M.R. Manunza (ed.), *Cuccuru Cresia Arta. Indagini Archeologiche a Soleminis*, pp. 193-202. Grafica del Parteolla, Dolianova.
- Werne, J.P. and D.J. Hollander, 2005, Balancing supply and demand: Controls on carbon isotope fractionation in the Cariaco Basin (Venezuela) Younger Dryas to Present. *Marine Chemistry*. v. 92, no. 1-4, pp. 275-293.
- Glibert, P.M., C. A. Heil, D. Hollander, M. Revilla, A. Hoare, J. Alexander and S. Murasko, 2004, Evidence for dissolved organic nitrogen and phosphorus uptake during a cyanobacterial bloom in Florida Bay, *Marine Ecology Progress Series*, vol. 280, 73-83.
- Werne, J.P., D.J. Hollander, T.W., Lyons, J.S. Sinninghe Damsté, 2004, Organic sulfur biogeochemistry: Recent advances and future directions for organic sulfur research. In: *Sulfur Biogeochemistry: Past and Present*. J. Amend, K. Edwards, & T. Lyons, eds. *GSA Special Paper 379*, Ch. 9 pp. 135-150.
- Werne, J.P., T.W. Lyons, D.J. Hollander, M.J. Formolo, J.S. Sinninghe Damsté, 2003, Reduced sulfur in euxinic sediments of the Cariaco Basin: sulfur isotope constraints on organic sulfur formation. *Chemical Geology* v. 195, p. 159-179.
- Lyons, T.W., J.P. Werne, and D.J. Hollander, R.W. Murray, 2003, Contrasting sulfur geochemistry and Fe/Al and Mo/Al ratios across the last oxic-to-anoxic transition in the Cariaco Basin, Venezuela. *Chemical Geology*. v. 195, p. 131-157.

- Sageman, B.B., A.E. Murphy, J.P. Werne, C.A. Ver Straeten, D.J., Hollander, and T.W. Lyons, 2003, A tale of shales: the relative roles of production, decomposition, and dilution in the accumulation of organic-rich strata, Middle-Upper Devonian, Appalachian basin. *Chemical Geology*, v. 195, p. 229-273.
- Werne, J., Sageman, B., Lyons, T., and Hollander, D., 2002, Integrated assessment of a "Type Euxinic" deposit: Evidence for multiple controls on black shale deposition in the Middle Devonian Oatka Creek Formation, *American Journal of Science*, V. 302, 110-143.
- Hollander, D.J. and Smith, M.A., 2001, Microbially-mediated carbon cycling as a control on the $\delta^{13}\text{C}$ of sedimentary carbon in eutrophic Lake Mendota (USA): New models for interpreting isotopic excursions in the sedimentary record, *Geochim. Cosmochim. Acta.*, V. 65/23, 4321-4337.
- Van Mooy, B., B. MacGregor, D. Hollander, K. Neilson and D. Stahl, 2001, Evidence for tight coupling between active bacteria and particulate organic carbon during seasonal stratification of Lake Michigan, *Limnology and Oceanography*, 46/5, 1202-1208.
- MacGregor, B., B. Van Mooy, B. Baker, M. Mellon, P. Moisaner, H. Paerl, J. Zehr, D. Hollander, and D. Stahl, 2001, Microbiological, molecular biological, and stable isotopic evidence for nitrogen fixation in the open waters of Lake Michigan, *Environmental Microbiology*, 3(3), 205-219.
- Schwartz, M. and Hollander, D., 2000, Annealing, distilling, reheating and recycling: Bitumen processing in the ancient Near East, *Paleorient*, 26, 83-91.
- Werne, J.P., Hollander, D.J., Lyons, T.W., and Peterson, L.C., 2000, Climate-induced variations in productivity and planktonic ecosystem structure from the Younger Dryas to Holocene in the Cariaco Basin, Venezuela *Paleoceanography*, v. 15, no. 1, pp. 19-29.
- Murphy, A.E., Sageman, B.B., Hollander, D.J., Lyons, T.W., and Brett, C.E., 2000, Black shale deposition in the Devonian Appalachian basin: Silicilastic starvation, episodic water-column mixing, and efficient recycling of biolimiting nutrients, *Paleoceanography*, v. 15, p. 280-291.
- Werne, J.P., D.J. Hollander, A. Behrens, P. Schaeffer, P. Albrecht, J.S. Sinninghe Damsté, 2000, Timing of early diagenetic sulfurization of organic matter: A precursor-product relationship in Holocene sediments of the anoxic Cariaco Basin, Venezuela, *Geochimica et Cosmochimica Acta*, v. 64, no. 10, pp. 1741-1751.
- Rich, J., Hollander, D.J., Birchfield, G.E. and Le Truet, H., 2000, Model sensitivity of atmospheric CO_2 to changes in regional bioproductivity, In: *Scientific Bridges 2000 and Beyond: Professeurs de l'Academie des Sciences*, cEd. Jablon, C., Elf Aquitaine, Paris, pg. 13-40.
- Murphy, A.E., Sageman, B.B., Hollander, D.J., 2000, Eutrophication by decoupling of the marine biogeochemical cycles of C, N, and P: A mechanism for the Late Devonian mass extinction, *Geology*, v. 28, p. 427-430.
- Schwartz, M., Hollander, D.J. and Stein, G., 2000, Reconstructing Mesopotamian exchange networks in the 4th Millennium BC: Geochemical and archeological analysis of bitumen artifacts from Hacinebi Tepe, Turkey, *Journal Paleorient*, v. 25/1, pg. 67-82.
- Smith M.A. and Hollander, D.J., 1999, Changes in the pattern of atmospheric circulation over Central North America during the past 100 years: Evidence from the oxygen-isotope record of recent carbonate sediments from Lake Mendota, Wisconsin, *Geology*, v. 27, 589-592.

- Gong, C. and Hollander, D.J., 1999, Evidence for differential degradation of alkenones under contrasting bottom-water conditions: Implication for ocean paleotemperature reconstructions using U^{k}_{37} , *Geochim. Cosmochim. Acta*, v. 63, p. 405-411.
- Rich, J., Hollander, D.J., and Birchfield, E.G., 1999, The role of regional oceanic bioproductivity in atmospheric pCO_2 changes, *Global Biogeochemical Cycles*, v. 13/2, p. 531-553.
- Murphy, A. Sageman, B., Hollander, D., and Ver Streaten, C., 1999, Organic carbon burial and faunal dynamics in the Appalachian basin during the Devonian (Givetian-Famennian) greenhouse: An integrated paleoecological/biogeochemical approach, In: *Warm Climates in Earth History*, B. Huber, K. MacLeod, and S. Wing (eds), Cambridge University Press, p. 351-385.
- Fogel, M.L., Aguilar, C., Cuhel, R., Hollander, D.J., and Paerl, H.W., 1999, Biogeochemical response of the North Carolina coastal margin to Hurricane Gordon, *Limnology and Oceanography*, 44(6), p. 1359-1369.
- Sageman, B.B. and Hollander, D.J., 1999, Cross correlation of paleoecologic and geochemical proxies: A Holistic approach to the study of past global change, in: *The Evolution of the Cretaceous Ocean/Climate System*, Barrera, E. and Johnson, C.C. (eds.), Geological Society of America, Special Publication.
- Seagren, E. A., Smets, B. F., Hollander, D. J., Stahl, D. A. and Rittmann, B. E. , 1998, Total alkalinity as a bioremediation monitoring tool. In: *Natural Attenuation*, Wickraamanayake, G. B. and Hinchee, R. E. (eds.), Battelle Press, Columbus, Ohio, pp. 117-123.
- Lyons, T.W., Werne, J.P., Hollander, D.J., Murray, R.W., Pearson, D.G., Peterson, L.C., and ODP Leg 165 Scientific Party, 1998, Biogeochemical pathways in Holocene and Latest Pleistocene sediments of the anoxic Cariaco Basin: Linkages to paleoceanographic and paleoclimatic variability, *Mineralogical Magazine*, v. 62A, p. 931-932.
- Gong, C., and Hollander, D.J., 1997, Differential contribution of bacteria to sedimentary organic matter in oxic and anoxic environments, Santa Monica Basin, *Organic Geochemistry*, 26, 9. 5435-5463.
- Bidigare, R.R. Fluegge, A, Freeman, K.H., Hanson, K.L., Hayes, J.M, Hollander, D.J., Jasper, J.P., King, L.L., Laws, E.A., Millero, F.J., Pancost, R., Popp, B.N., Steinberg, P.N., and Wakeham, S.G., 1997, Consistent fractionation of ^{13}C in nature and in the laboratory: Growth-rate effects in some haptophyte algae, *Global Biogeochemical Cycles*, v. 11, p. 279-292.
- Seagren, E.A., Hollander, D.J., Stahl, D.A., and Rittmann, B.E., 1996, Innovative evaluation methods for bioremediation, In: *Non-Aqueous Phase Liquids (NAPLs) in Subsurface Environments: Assessment and Remediation*, Reddy, L.M., et al. (eds), Proceedings of 1996 Annual Convention and Exposition of the American Society of Civil Engineers (ASCE), p. 381- 392.
- Sinninghe Damsté, J.S., van Duin, A.C., Hollander, D.J., Kohnen, M.E.L., de Leeuw, J.W., 1995, Early diagenesis of bacteriohopanepolyol derivatives: Formation of fossil homohopanoids, *Geochim. Cosmochim. Acta*, v. 59, 5141-5147.
- Hollander, D.J., Sinninghe Damsté, J.S., Hayes, J.M., de Leeuw, J.W., and Huc, A.Y., 1993, Bulk and molecular isotopic analyses of organic matter in the Tertiary Mulhouse evaporite basin (Alsace, France), *Organic Geochemistry*, v. 20/8, 1253-1263

- McKenzie, J.A. and Hollander, D.J., 1993, Oxygen-isotope record in recent carbonate sediments from Lake Greifen, Switzerland (1765 - 1986): Application of continental isotopic indicator for evaluation of changes in atmospheric circulation patterns, In: P.K. Swart, K.C. Lohmann, J. McKenzie and S. Savin (eds.) *Continental Isotopic Indicators of Climate Change (Geophys. Monogr.)* Am. Geophys. Union, Washington, D.C., pp. 101-111.
- Hollander, D.J., McKenzie, J.A., and Hsu, K.J., 1993, Carbon isotope evidence for unusual plankton blooms and fluctuations in surface water CO₂ in "Strangelove Ocean" after terminal Cretaceous event, *Paleogeography, Paleoclimatology, Paleoecology*, v. 104, 229-237.
- Hollander, D.J., Huc, A.Y., McKenzie, J.A. and Hsu, K.J., 1993, Application of an eutrophic lake model to the origin of ancient organic-carbon-rich sediments, *Global Biogeochemical Cycles*, v. 7, 159-179.
- Huc, A.Y., Lallier-Verges, E., Bertrand, P., Carpentier, B. and Hollander, D.J.; 1992, Organic matter response to change of depositional environment in Kimmeridgian shales, Dorset, U.K., In: *Productivity, Accumulation and Preservation of Organic Matter in Recent and Ancient Sediments*, Whelan, J.K. and Farrington, J. (eds.), Columbia University Press, pp. 469-486.
- Hollander, D.J., McKenzie, J.A. and ten Haven, H.L., 1992, A 200-year sedimentary record of progressive eutrophication in Lake Greifen (Switzerland): Implications for the origin of organic-carbon-rich sediments, *Geology*, v. 19, p. 825-828.
- Hollander, D.J., Belin, S., Bessereau, G., Houzay, J.P. and Huc, A.Y., 1991, Organic matter in the early Toarcian shale, Paris Basin, France: A response to environmental changes, *Rev Inst Francais du Petr*, v. 46/5, p. 543-562.
- Hollander, D.J. and McKenzie, J.A.; 1991, CO₂ control on carbon isotope fractionation during aqueous photosynthesis: A "paleo-pCO₂ barometer", *Geology*, v. p. 929-932.
- Hollander, D.J., Behar, F.H., Vandenbroucke, M., Bertrand, P. and McKenzie, J.A., 1990, Geochemical alteration of organic matter in eutrophic Lake Greifen: Implications for the determination organic facies and the origin of lacustrine source rocks, In: *Deposition of Organic Facies*, Huc, A.Y. (ed.), American Association of Petroleum Geologists (AAPG) Memoir 30, p. 183-195.
- Hollander, D.J., Environmental factors controlling the preservation and accumulation of organic matter, 1990, *Chemical Geology*, v. 84, No. 1/4, p. 215-216.
- Kastner, M., Mertz, K., Hollander, D.J., and Garrison, R., 1984, The association of dolomite-phosphorite-chert: Causes and possible diagenetic sequences. In: *Dolomites of the Monterey Formation and other Organic-Rich Units*, Garrison, R., Kastner, M. and Zenger D. (eds.), Society of Economic Paleontologists and Mineralogists (SEPM), pp. 75-86

Non Peer-Reviewed Publications

Manuscripts, Short-Courses and Reports

- 2004: Hollander, D.J. and Peebles, E, Estuarine Nursery Function of Tidal Rivers in West-Central Florida: Ecosystem Analyses Using Multiple Stable Isotopes, Southwest Florida Water Management District, 96 p.
- 1997: Sageman, B.B., Murphy, A.E., Hollander, D.J., and Lyons, T.W., Origin, character, and stratigraphic hierarchy of organic-carbon-rich siltstones in the Brushy Canyon Formation (Guadalupian), Report to Mobil Oil Corp.

- 1996: Seagren, E.A., Hollander, D.J., Stahl, D.A., and Rittmann, B.E., An integrated bioremediation evaluation strategy, for Short Course on Evaluating Bioremediation, Sponsored by the Association of Engineering Geologists.
- 1996: Hollander, D.J., Instability of African climate: Past, present and future, In: Proceeding from the National Science Foundation and Rockefeller Foundation 3 day workshop on "African Farmers and Their Environment in Long-Term Perspectives", (Eds) Guyer, J. et al., Wageningen, The Netherlands, 5/95.
- 1992: Hollander, D.J., Talbot, M. and Philips, F., "Environmental isotopes in lacustrine archives", National Science Foundation-Research Training Group (NSF-RTG) sponsored a 3-day workshop on "Paleorecords of Global Change", p.135.

Professional Talks:

Federally Supported Workshop and Research Lecture Series:

- 2013: Oil Spill Dispersant Research Workshop, Baton Rouge, LA,
- 2011: Hollander, D.J., B. Flower, D. Naar, R. Weisberg, K. Daly, I. Romero, M. Robert, Deposition, Distribution and Fate of Macondo Oil in the Sediments of the Northern Gulf of Mexico, NSTC- SOST Meeting, St. Pete Beach FL., October 2011.
- 2011: Smithsonian's National Museum of Natural History (NMNH) and the Centers for Ocean Sciences Education Excellence (COSEE), Invited Presentation in the *Changing Tides* lecture series: "The Science Since the Spill", Washington D.C. April.
- 2011: National Science Teachers Association (NSTA) and the Centers for Ocean Sciences Education Excellence (COSEE), Invited Presentation on the "Origins and Fate of Oil in the Northern Gulf of Mexico: Ongoing Chemical, Biological and Geological Perspectives", San Francisco, CA March.
- 2009: Gulf of Mexico Alliance/EPA Workshop- Invited Presentation, Peebles, E.B., D.J. Hollander, E.M. Malkin and C. Kovach, Concepts for Gulf-wide nitrogen endpoint & Tampa Bay pilot indicator research, Stennis Space Center, MS, June.
- 2008: Gulf of Mexico Alliance, 3-day workshop on Nutrient Fate and Transport Workshop, Keynote Lecture: "Using Stable Isotopes to Trace Nutrient Fate and Transport", Galveston, TX, Organizer: Charles Kovach, FL Department of Environmental Protection.
- 1995: National Science Foundation and Rockefeller Foundation 3 day workshop on: African farmers and their environment in long-term perspectives, Wageningen, The Netherlands. Provided lectures on "African Climate; Past, Present and Future"; Organizer: Prof. Jane Guyer, Program of African Studies, Northwestern University
- 1992: National Science Foundation-Research Training Group (NSF-RTG) in Paleorecords of Global Change, Lecturer for a 3-day workshop on "Environmental isotopes in lacustrine archives", Limnological Research Center, University of Minnesota, Organizer: Prof. Kerry Kelts.

Oral and Poster Presentations at Professional Meetings:

2013 (already presented and/or accepted for presentation)

- Hollander, D.J., Romero, I.C., Schwing, P.T., Larson, R.A., Watson, K., Zenzola, N., Murawski, Brooks, G.R., Hastings, D.W., Chanton, J., Kostka, J., Overholt, W., Elucidating the mechanism of sedimentary oil deposition following the Deepwater Horizon blowout event in the Northern Gulf of Mexico, IMOG (International Meeting of Organic Geochemists), Tenerife, Canary Islands (Spain), September 2013.
- Zell, C., J.-H. Kim, D. Hollander, M. Balsinha, and J.S. Sinninghie Damsté, Constraints on the applicability of the MBT/CBT proxy in two contrasting River systems (Amazon vs. tagus), IMOG (International Meeting of Organic Geochemists), Tenerife, Canary Islands (Spain), September 2013.
- Romero, I., D.J. Hollander, G.R. Brooks, W. Patterson, S.W. Ross, J.J. Torres, A.S. Kane, S. Murawski, P. Schwing, E. Quintana-Rizzo, R.A. Larson, E.A. Goddard, N. Zenzola, Deposition and persistence of polycyclic aromatic hydrocarbons from the first DEEPWATER oil spill: from deep-sea sediments to fish communities (Gulf of Mexico, USA), IMOG (International Meeting of Organic Geochemists), Tenerife, Canary Islands (Spain), September 2013.
- Alonso-García M., M. Leggett, H.F. Kleiven, D. Hollander A.E. Shevenell, Holocene ice-rafting signal in the western subpolar North Atlantic: new insights from Eirik Drift (South Greenland), International Conference on Paleoceanography (ICP-11), Barcelona, Spain, September 2013.
- Alonso-García, M., Kleiven, H.F., Hollander, D., Shevenell, A.E. Drift ice signal at Eirik Drift (South Greenland) during the last ~ 3000 years, 43rd Annual International Arctic Workshop, INSTAAR (Institute of Arctic and Alpine Research), Amherst, MA, USA, March 2013.
- Ellis, G., Herbert, G., and Hollander, D.J., Florida Malacologists United Meeting last month: Determination of community structure in a multi-species mollusk shell assemblage from Saint Joe Bay, Florida via amino acid-specific nitrogen isotopic analysis of shell organic matter, Florida Key, FL., February 2013.
- Chanton, J., J. Cherrier, J. Sarkodeeadoo, W.M. Graham, S. Joye, D. Hollander, C. Brunner, Radiocarbon analysis of the Gulf Oil Spill, Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Patterson, W., J. Tarnecki, C. Jagoe, I. Romero, D. Hollander, A. Kane, M. James, Shifts in Reef Fish Community and Trophic Structure Following the Deepwater Horizon Oil Spill, Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Schwing, P.T., Flower, B.F., Brooks, G.R., Larson, R.A., Romero, I., Hollander, D.J., Using short-lived radionuclide inventories and geochronology to quantify benthic foraminifera response to the BP oil blowout. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Romero, I., D.J. Hollander, W. Patterson, S. W. Ross, A. S. Kane, S. Murawski, E. Quintana-Rizzo, E.B. Peebles, E.A. Goddard, J. J. Torres, Spatio-Temporal Concentrations And Composition Of Polycyclic Aromatic Hydrocarbons In Fish: Evidence For Dwh Oil Spill Impact On Mesopelagic And Outer Shelf-Reef Fish In The Gulf Of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Watson, K., Remero, I. Murawski, S., Hollander, D.J., Large-scale tracking of oil-derived hydrocarbons after the Deepwater Horizon blowout: Reconstructing

spatial and temporal petroleum distribution, Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.

- Larson, R.A., Brooks, G.R., Schwing, P., Hollander, D., Romero, I., Moore, C., Matsunaga, A., Hill, K., 2013, Shift in sedimentation patterns and increased mass accumulation rates following the BP blowout event: NE Gulf of Mexico, Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Romero, I., Hollander, D., Brooks, G., Schwing, P., Larson, R., Goddard, E., Zenzola, N., 2013, Event stratigraphy of the deepwater horizon blowout and its record in the deep-sea: a sedimentological and geochemical perspective, Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Snyder, S., H. Ramirez, I. Romero, D. Wetzel, D. Hollander, S. Murawski, Impacts of the Deepwater Horizon Blowout on Burrow-Forming Finfishes: An Interdisciplinary Approach, Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Hastings D. W., G. R. Brooks, D. J. Hollander, R. Larson, J. Morford, I. Romero, S. Hammaker, A. Hogan, T. Roeder, T. Bartlett. Changes in the redox state in pore water and marine sediments following the 2010 BP blowout. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.
- Hollander, D.J., G. R. Brooks, D. J. Hollander, R. Larson, I. Romero, P. Schwing, K. Watson, N. Zenzola; D.W., Hastings, J. Chanton, J. Kostka. W. Overholt, Testing the Mechanisms of Sedimentary Oil Deposition in Deep-Sea. Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA. January 2013.

2012

- Chanton, J., J. Cherrier, J. Sarkadee-Adoo, S. B. Joye, D. J. Hollander, W. M. Graham, C.A. Brunner, S. Bosman, A. Mickell, G. Brooks, R. Larson, D. Hastings, Biogeochemical Radiocarbon analysis of the Gulf Oil Spill: Sediments, Plankton and Coastal Fauna. Or Tracers in the Gulf. American Geophysical Union Fall Meeting, San Francisco, CA December 2012.
- Hastings, D. W., G. R. Brooks, D. J. Hollander, R. Larson, J. Morford, I. Romero, S. Hammaker, A. Hogan, T. Roeder. Changes in the redox state of sediments following the 2010 BP blowout. American Geophysical Union Fall Meeting, San Francisco, CA December 2012.
- Larson, R.A., Brooks, G.R., Hollander, D., Schwing, P.T., Hill, K., Moore, C., Matsunaga, A., Utilizing ^{234}Th and ^{210}Pb geochronologies to detect increased sediment mass accumulation following the BP blowout event: NE Gulf of Mexico, Annual GSA, Charlotte, N.C., November 2012
- Schwing, P.T., Flower, B.P., Brooks, G.R., Larson, R.A., Hollander, D.J., Using short-lived radionuclide geochronology to quantify benthic foraminifera response to the BP oil blowout. GSA Annual Meeting, Charlotte, NC. November 2012.
- Lorenzoni, L., C. R. Benitez-Nelson, R. C. Thunell, D. Hollander, R. Varela, Y. Astor and F. E. Muller-Karger, Spatial and seasonal differences in the

- geochemistry of suspended particulate matter of rivers and bottom nepheloid layers in the Cariaco Basin, 1st Latin America GEOTRACES Workshop. Rio de Janeiro, Brazil. November 2012.
- Romero, I., D. J. Hollander, W. Patterson, E. Quintana-Rizzo, A. Kane, S. Murawski, E. B. Peebles, J.J. Torres, Organic Geochemical Signatures of the DWH Oil Spill in the Gulf of Mexico: Potential Ecologic Consequences in Fish Communities, Gordon Research Conference on Organic Geochemistry, Holderness, NH, August 2012.
- Zell, C., J-H. Kim, E. Goddard, D. Hollander, L. Lorenzoni, P. Moreira-Turcq, G. Abril, P. Baker, C. Silva and J. S. Sinninghe Damsté, Sources and distributions of branched tetraether lipids in the Amazon River and the Amazon fan: Implication for the application of the MBT/CBT proxy in marine sediments, Gordon Research Conference on Organic Geochemistry, Holderness, NH, August 2012.
- Larson, R. A., G. R. Brooks, B. P. Flower, D. Hollander, D. W. Hastings, I. Romero, A. Valente, K. Hill, C. Moore, Assessing the Fate and Impact of the BP Oil on Deep-Sea Sedimentary Environments and Benthic Communities: NE Gulf of Mexico. ASLO Ocean Sciences Meeting, February 20-24, 2012, Salt Lake City, UT.
- Brooks, G. R., Larson, R. A., Hollander, D. Flower, B. P., Hastings, D., Valente, A., Hill, K., Moore, C. Romero, I., Rapid increase in accumulation rate and shift in sedimentary regime in the NE Gulf of Mexico following the 2010 BP blowout event, ASLO National Meeting, Salt Lake City, Utah, February 2012.
- Lorenzoni, L., C. R. Benitez-Nelson, R. C. Thunell, D. Hollander, R. Varela, Y. Astor and F. E. Muller-Karger, Lithogenic sediment distribution and transport in the Cariaco Basin, Venezuela, ASLO National Meeting, Salt Lake City, Utah, February 2012.
- Ellis, G. S., Hollander, D., Peebles, E. B., Herbert, G. S., Tracing ontogenetic trophic shifts via nitrogen isotopes of amino acids: A case study in *Bairdiella chrysoura* from Tampa Bay, FL, ASLO National Meeting, Salt Lake City, Utah, February 2012,
- Hollander, D. J., Flower, B., Larson, R. Brooks, G. Romero, I., Zinzola, N. Means, Z., Deposition, distribution and fate of Macondo oil in the sediments of the Northeastern Gulf of Mexico, ASLO National Meeting, Salt Lake City, Utah, February 2012,
- Romero, I. C., Hollander, D. J., Patterson, W. Quintana-Rizzo, E., Kane, A. Murawski, S., Peebles, E. B., Ellis, G., Zenzola, N., Torres, J. J., Organic geochemical evidence for oil spill impacts on fish in the Gulf of Mexico: Comparative and quantitative analyses of polycyclic Aromatic hydrocarbons, ASLO National Meeting, Salt Lake City, Utah, February 2012.
- Lorenzoni, L., C. R. Benitez-Nelson, R. C. Thunell, D. Hollander, R. Varela, Y. Astor and F. E. Muller-Karger., Role of episodic events in the transport and sequestration of terrestrial sediment in the Cariaco Basin, IMBER IMBIZO Meeting, Goa, India., January 2012.
- Hollander, D.J., Breitbart, M., Nitti, A., Siefert, J. and Souza, V., Spatially-resolved genomic, molecular organic, and stable isotopic analyses of an actively-accreting freshwater microbialite from Cuatro Ciénegas, Mexico,

International Stromatolite Meeting, Laguna Bacalar, Mexico, January 2012.

2011

- Lai, L., R.H. Tykot, E. Usai, J.F. Beckett, R. Floris, O. Fonzo, E. Goddard, D. Hollander, M.R. Manunza, A. Usai Diet in the Sardinian Bronze Age: models, collagen isotopic data, issues and perspectives, submitted to the Proceedings of the the conference on The Bonze Age, Aix en Provence, November 2011
- Trevor E. Nace, Paul A. Baker, Gary S. Dwyer, Cleverson Silva G., David J. Hollander, Catherine A. Rigsby, Liviu Giosan, Stephen J. Burns, Paleohydrology of tropical South America and paleoceanography of the tropical Atlantic as deduced from two new sediment cores on the Brazilian continental slope, AGU Fall meeting, December 2011.
- Radabaugh, K.R., A. A. Wallace, S.A. Huelster, D.J. Hollander and E.B. Peebles. Comparison of vertebral $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ records with organism-based isoscapes to identify fish migration, site fidelity and food-web preferences of fishes in the eastern Gulf of Mexico, USA. AGU Fall meeting, December 2011.
- Radabaugh, K.R., S.A. Huelster, D.J. Hollander, and E.B. Peebles. Application of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ isoscapes to studies of fish site fidelity and basal resource variation on the West Florida Shelf (poster). Isoscapes 2011, Purdue University, West Lafayette, IN, September 2011.
- Hollander, D., Freeman, K. Ellis, G. Diefendorf, A., Goddard, E., Peebles, E., and Paul, J.P., Why subsurface oils associated with the BP Deepwater Horizon blowout are so long-lived and remain toxic?: A molecular organic geochemical perspective, Keynote Lecture, Gordon Research Conference on Chemical Oceanography, New Hampshire, August, 2011
- Radabaugh, K. , Huelster, S.A., Hollander, D.J. and Peebles, E.B., The utility of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ stable isotope maps to trace site fidelity and the tropic base of fish populations in the eastern Gulf of Mexico, International Council for the Exploration of the Sea (ICES), Gdansk, Poland, July 2011.
- Brame, A., McIvor, C. Hollander, D.J., and Peebles, E., Ecological Assessment of Juvenile Snook Over a Small Spatial Scale in a Tidal Tributary of Tampa Bay, Florida, Southern Division American Fisheries Society, Florida, January 2011..
- Kim, J.-H. C. Zell, D. Hollander, P. Moreira-Turcq, R. Buscail, J.S. Sinninghe Damsté. Tracing soil organic matter from source to sink, AGU-Chapman Conference on Source to Sink Systems Around the World and Through Time, California, January 2011.
- Radabaugh, K., S. Huelster, D. Hollander and E.B. Peebles. Variation in fish $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ on the West Florida Shelf: Implications for site fidelity and selective trophic pathway effects. 19th Annual Meeting of the American Fisheries Society, Southern Division, Tampa FL, January 2011.

2010

- Nance, T., Baker, P., Dwyer, G., Hollander, D. and Silva, C., Late Quaternary paleohydrology deduced from new marine sediment cores taken on the proximal Amazon continental margin, AGU National Meeting, California, December.
- Hollander, D., Freeman, K., Ellis, G., Diefendorf, A., Peebles, E. and Paul, J., Long-Lived, Sub-Surface Layers of Toxic Oil in the Deep-Sea: A

- Molecular Organic and Isotopic Geochemical Approach to Understanding their Nature, Molecular Distribution, Origin and Impacts to the Northern Gulf of Mexico, AGU National Meeting, California, December
- Radabaugh, K. , Hollander, D.J. and Peebles, E.B., Variation in Fish $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ along a Climatic Gradient: An Isoscape Perspective for the West Florida Shelf, AGU National Meeting, California, December
- Hollander, D., Ellis' G., Peebles, E. and Paul' J., Goddard, E., Characterizing the Nature, Molecular Distribution and Isotopic Composition of Sub-Surface Oil Over Space and Time, FIO- BP's 10M PI's Meeting, Orlando, September.
- Breitbart, M., D. Hollander, A. Nitti, B. Van Mooy, J. Siefert, V. Souza, Modern freshwater microbialites, Cuatro Ciénegas, Mexico. I. Metagenomic and stable isotopic analyses to assess microbial community structure and function, Astrobiology Science Conference, Houston, TX, April.
- Hollander, D., M. Breitbart, A. Nitti, B. Van Mooy, J. Siefert, V. Souza, Modern freshwater microbialites, Cuatro Ciénegas, Mexico. II: Detailed Spatial analysis of geochemical signals linked to microbial activity and carbonate precipitation, Astrobiology Science Conference, Houston, TX, April.

2009

- Richey, J. Hollander, D.J., Eglinton, T., Flower, B., 2009, Merging Molecular Organic and Foraminiferal-Based Sedimentary Geochemical Records of Gulf of Mexico SST, AGU National Meeting, California, December.
- Richey, J. Hollander, D.J., Eglinton, T., 2009, A 1000-year decadal resolution TEX_{86} record from the Gulf of Mexico, International Meeting of Organic Geochemists (IMOG), Bremen, Germany. September.
- Hollander, D.J. (Invited Presentation), 2009, A 1400-year sedimentary record from the Pigmy Basin, Gulf of Mexico reveals strong decadal-scale linkages between solar variability, Gulf of Mexico moisture balance and hydrologic conditions over North American continent, Symposium on "Calibrating Geological Records of Environmental Change from Lakes to Oceans", Monte Verità, Ascona, Switzerland, July.
- Hollander, D.J. (Invited Presentation), 2009, A molecular, isotopic and organic geochemical analysis of freshwater microbialites, Symposium on "Calibrating Geological Records of Environmental Change from Lakes to Oceans", Monte Verità, Ascona, Switzerland, July.
- Richey, J. Hollander, D.J., Eglinton, T., Flower, B., 2009, Novel Application of Organic and Inorganic Geochemical Proxies for Exploring Ocean-Continent Linkages over the last 1400 years from Gulf of Mexico Sediment, Goldschmidt Geochemistry Conference, Davos, Switzerland. June.
- Nitti, A., Breitbart, M., Hollander, D.J., J. Siefert, V. Souza, 2009, A Genomic and Stable Isotopic Analysis of Freshwater Microbialites from Cuatro Ciénegas, Mexico, Goldschmidt Geochemistry Conference, Davos, Switzerland. June.
- Malkin, E., Hollander, D., Peebles, E. 2009. Urban Socio-Economic Factors Affect the Isotopic Composition of Fish Muscle. Goldschmidt Geochemistry Conference, Davos, Switzerland. June.

- Peebles, E.B., D.J. Hollander, E.M. Malkin, C. Kovach, (invited presentation) 2009, Concepts for Gulf-wide nitrogen endpoint & Tampa Bay pilot indicator research. Gulf of Mexico Alliance/EPA Workshop, Stennis Space Center, MS, June.
- Ellis, G., J. McKnight, G. Herbert, E.B. Peebles, D.J. Hollander, 2009, Effect of shell formation on tissue amino acid carbon composition in the marine snail *Strombus* sp: implications for interpreting biochemical and environmental conditions from organic matter bound in carbonate shells, Isocompound '09 Conference, Potsdam, Germany, June.
- Richey, J. Hollander, D.J., Eglinton, T., 2009, Novel Application of Organic and Inorganic Geochemical Proxies for Exploring Ocean-Continent Linkages over the last 1400 years from Gulf of Mexico Sediment, Symposium on "Unknown knowns and known unknowns: Chemical oceanography in a changing world", Savannah, GA, February.
- Nitti, A., Daniels, C., A. Hoare, A. J. Siefert, V. Souza, M. Breitbart, D.J., Hollander, 2009, A Molecular, Isotopic, and Organic Geochemical Analysis of Freshwater Microbialites from Cuatro Ciénegas, Mexico, ASLO Ocean Sciences- Nice France, January.

2008

- Flannery, J.A., Richey, J.N., Meckler, A.N., and Hollander, D.J., 2008, Late Holocene Hydrologic Variability Recorded in Pigmy Basin, Gulf of Mexico Sediments: A High-Resolution Assessment of Ocean-Continent-Atmospheric Interaction, AGU National Meeting.
- Richey, J.N, Poore R. Z., and Flower, B. P., Hollander, D. J., 2008, Reproducibility of a high-resolution, late Holocene foraminiferal Mg/Ca record from the Gulf of Mexico, AGU National Meeting.
- Nitti, A., Daniels, C., J. Siefert, V. Souza, Breitbart, M., and D.J., Hollander, 2008, A Molecular and Stable Isotopic Analysis of Freshwater Microbialites from Cuatro Ciénegas, Mexico, FL-ASM/Southeast Branch Jacksonville, FL.
- Richey, J. Hollander, D.J., Eglinton, T., Flower, B., 2008, Exploring ocean-continent linkages over the past 1400 from Gulf of Mexico sediments, Gordon Research Conference on Organic Geochemistry., Invited Poster.
- Nitti, A., Daniels, C., , A. Hoare, A. J. Siefert, V. Souza, Breitbart, M., D.J., Hollander, A Molecular, Isotopic, and Organic Geochemical Analysis of Freshwater Microbialites from Cuatro Ciénegas, Mexico, Gordon Research Conference on Organic Geochemistry., Invited Poster
- Lai, L., R.H. Tykot, E., Goddard, D. Hollander, J.F. Beckett, R. Floris, O.Fonzo, E. Usai, M.R. Manunza, 2008, Understanding the Interplay of Climate Change and People's Agency in the Past: the Perspective of Isotopic Analyses on Prehistoric Sardinia, International Symposium of Archaeometry. Siena, Italy.
- Peebles, E.B. and Hollander, D.J, Keynote Lecture, Using Stable Isotopes to Trace Nutrient Fate and Transport, Gulf of Mexico Alliance, 3-day workshop on Nutrient Fate and Transport Workshop, Galveston, TX, Organizer: Charles Kovach, FL Department of Environmental Protection
- Malkin, E., Hollander, D., Peebles, E. 2008. Parallel Nitrogen Cycles in

Southwest Florida's Tidal Rivers: Selective Remineralization of Algal Material Supports fish biomass. ASLO 2008 Ocean Sciences Meeting. Orlando, FL, *Eos Trans. AGU*, 89 (36), Ocean Sci. Meet. Suppl., Abstract

- Ellis, G. and Hollander, D.J., 2008, Organic Matter in Carbonate Biominerals: A Bulk and Molecular Isotopic Approach to Ecological Monitoring and Reconstruction, ASLO 2008 Ocean Sciences Meeting. Orlando, FL, *Eos Trans. AGU*, 89 (36), Ocean Sci. Meet. Suppl., Abstract
- Flannery, J.A., Richey, J.N., Meckler, A.N., and Hollander, D.J., 2008, A 1400 Year Multi-Proxy Record of Hydrologic Variability in the Gulf of Mexico: Exploring Ocean-Continent Linkages During the Late Holocene, ASLO 2008 Ocean Sciences Meeting. Orlando, FL, *Eos Trans. AGU*, 89 (36), Ocean Sci. Meet. Suppl., Abstract, **Best Student Poster Award**
- Dietz, M.E., T. Van Vleet, and D.J. Hollander, 2008, A Multiproxy Approach to Investigating Ecosystem Change in Response to the Development of Modern and Historic Low-Oxygen Conditions on the LA Continental Shelf *Eos Trans. ASLO 2008 Ocean Sciences Meeting. Orlando, FL, AGU*, 89, Ocean Sci. Meet. Suppl., Abstract , **Best Student Poster Award**
- Hoare, A.M., Hollander, D.J., Heil, C.A., Glibert, P.M., 2008, Understanding the effects of changing hydrology on nutrient sources and coupling between the Everglades and Florida Bay: An isotopic biogeochemical perspective. ASLO 2008 Ocean Sciences Meeting. Orlando, FL, *Eos Trans. AGU*, 89, Ocean Sci. Meet. Suppl., Abstract .
- Thompson, J., Zielenski, B., Trinkenens, J., Paul, J., and Hollander, D.J., Biogeochemistry of Ooids: Assessing the Role of Microbes in Ooid Formation, ASLO 2008 Ocean Sciences Meeting. Orlando, FL, *Eos Trans. AGU*, 89, Ocean Sci. Meet. Suppl., Abstract.
- Montes, E., F.E. Muller-Karger, R. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto, L. Lorenzoni, Coupling of sinking biogenic particulate fluxes and primary production in the euphotic zone of the Cariaco Basin, Venezuela, ASLO 2008 Ocean Sciences Meeting. Orlando, FL, *Eos Trans. AGU*, 89, Ocean Sci. Meet. Suppl., Abstract
- Lai, L., R.H. Tykot, J.F. Beckett, R. Floris, E. Usai, O. Fonzo, E. Goddard & D.H. Hollander., 2008, *A Biochemical Perspective on Diet in Sardinian Prehistory*”, 109th Annual Meeting of the Archaeological Institute of America, Chicago, Illinois.

2007

- Hollander, D.J., Breitbart, M., Hoare, A., Seifert, J., Edwards, R., Rohwer, F. 2007, The role of microbes in the precipitation of microbialites in Cuatro Ciénegas, Mexico: A genomic and stable isotopic perspective. AGU, San Francisco California.
- Flannery, J.A., Richey, J.N., Meckler, A.N., and Hollander, D.J., 2007, A 1400 Year Multi-Proxy Record of Hydrologic Variability in the Gulf of

Mexico: Exploring Ocean-Continent Linkages During the Late Holocene, *Eos Trans. AGU*, 88 (52), Fall Meet. Suppl., Abstract PP33C-08.

Lorenzoni, L, F.E. Muller-Karger, R.C. Thunel³, E. Tappa, C. Benitez-Nelson, D.J. Hollander, R. Varela, Y. Astor and C. Hu, Influence of small local rivers on the transport and delivery of sediment to the Eastern Cariaco Basin, Venezuela, LOICZ/IMBER Meeting,

Hollander, D., Breitbart, M. Hoare, A., Seifert, J., Souza, V., 2007, Carbon and nitrogen isotopic biogeochemistry of the waters and sediments in the pozas of Cuatro Ciénegas, Mexico: Interpreting natural processes from anthropogenic impacts. Desert Fishes Conference, Cuatro Ciénegas, Coahuila Mexico

Hoare, A.M., Hollander, D.J., Heil, C.A., Glibert, P.M. 2007 Stable isotopic tracers link Florida Bay ecosystem response to changing nutrient inputs from the Everglades. ERF 2007, Estuarine Research Federation Conference, Providence, RI

Ellis, G. and Hollander, D.J., 2007, Stable isotopic composition of bivalve tissue and shell organic matrix as a tool for assessment of estuarine nutrient dynamics? - poster presentation, Estuarine Research Federation Conference, Providence, RI

Malkin, E., Hollander, D., Peebles, E. 2007. Land Use Specific Nutrients and Selective Remineralization Supporting Fish Biomass in Southwest Florida's Tidal Rivers. Estuarine Research Federation Conference. Providence, RI.

Montes, E., F.E. Muller-Karger, R. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto, L. Lorenzoni, Coupling of sinking biogenic particulate fluxes and primary production in the euphotic zone of the Cariaco Basin, Venezuela, Ocean Carbon and Biogeochemistry Workshop, Woods Hole Oceanographic Institution, Woods Hole, MA.

2006

Flannery J.A., J.N. Richey, A.N. Meckler, D.J. Hollander, R.Z. Poore, and B.P. Flower, Gulf of Mexico Moisture Balance Controls Hydrologic Variability on the North American Continent over the Past 1400 Years: A Geochemical Perspective, AGU national meeting, San Francisco, 2006.

Ostermann, L.E., Poore, R.Z., Swarzenski, P.W., Hollander, D.J., and Turner, R.E. A Several-Century Record of Low-Oxygen Conditions from Two Gravity Cores from the Louisiana Continental Shelf, GSA Abstracts, Vol. 38, No. 7. 2006.

Flannery, J.A., Hill, H.W., Richey, J., Poore, R.Z., and Hollander, D.J., Climatic Controls on Mississippi River Flooding During Both the Little Ice Age and Medieval Warm Period: A Gulf of Mexico Perspective on Hydrologic Variability Over North America, Holivar Conference, Holocene Climate Variability, London England June 2006

Flannery, J.A., Hill, H.W., Richey, J., Poore, R.Z., and Hollander, D.J., Differential Response of Marine and Terrestrial Ecosystems During the Little Ice Age and

Medieval Warm Period: Climate Controls on Ocean/Continent Interactions and Ecosystem Changes, AGU-ASLO Ocean Science Meeting, Honolulu, HI, February 2006

Dietz, M., Ostermann, L., Swarzenski, P., Poore, R.Z., and Hollander, D.J., A Multiproxy Approach to Extending Historical Record of Low-Oxygen Bottom Waters and Ecosystem Changes on the LA Continental Shelf. AGU-ASLO Ocean Science Meeting, Honolulu, HI, February 2006

2005

Hoare, A.M., Heil, C., Glibert, P. and Hollander, D.J., Biogeochemical Relationship between the Everglades and Florida Bay Revealed Through Spatial and Temporal Variability of Nitrogen Isotopic Composition of Dissolved Nutrients and Biologically-Derived Organic Components, Florida bay everglades Restoration Conference, Ft. Myers, December 2005.

Flannery, J.A., Hill, H.W., Poore, R.Z., and Hollander, D.J., Increasing Mississippi Discharge During Both the Little Ice Age and Medieval Warm Period: A Gulf of Mexico Perspective on Climate Variability Over North America, AGU national Meeting, San Francisco CA., December 2005

Hollander, D.J., Soto, L., Polk, J., and Van Beynen, P., Inter-Comparison of Speleothem and Lake Geochemical Proxy Records for Interpreting Paleohydrologic Conditions on Sub-Tropical North America During the Late Holocene AGU national Meeting, San Francisco CA., December 2005

Hill, H.W., Hollander, D.J., Flower, B.P., and Quinn, T.M., Elevated Mississippi River discharge during glacial times: a 6,000 year wet period on the North American continent, AGU national Meeting, San Francisco CA., December 2005

Hollander, D.J., Malkin, E., Murasko, S. and Peebles, E., Isotopic Perspectives on the Foundations of Estuarine-Dependent Fish Biomass: Macrophyte Versus Microphyte, AGU/NABS Joint Assembly, New Orleans, May 2005

Hoare, A.M., D.J. Hollander, C.A. Heil, P.M. Glibert, S. Murasko, M. Revilla, and J. Alexander, Using Stable Isotopes to Link Nutrients Sources from the Everglades and Biological Sinks in Florida Bay: A Biogeochemical Approach to Evaluate Ecosystem Response to Changing Nutrient Regimes, AGU/NABS Joint Assembly, New Orleans, May 2005

Ostermann, L., Poore, R., Swarzewski, P. and Hollander, D.J., A Several Century Record of Low Oxygen Conditions from a Sediment Core on the Louisiana Continental Shelf, GSA S.E. Regional Meeting, March 2005.

Hollander, D.J., Malkin, E., Peebles, E. and Van Vleet, E., Linking the Sedimentary Geochemical Record in Tampa Bay to Historical Changes in Land Use Development and Nutrient Inputs, USGS Conference on Tampa Bay Integrated Research, Gulfport, FL, February 2005.

2004

Hill, H., Flower, B.P., Hollander, D.J. and Quinn, T.M., Evidence for Oceanic/Continental Climate Linkages During Freshwater Inputs to the Gulf of Mexico, AGU national Meeting, San Francisco CA, December 2004.

Hollander, D.J., and Werne, J.W., Nitrogen Isotopic Evidence for Climate-Induced Variations in Nitrogen Cycling in the Cariaco Basin Upwelling System from the

Younger Dryas to Present, AGU National Meeting, San Francisco CA, December 2004.

- Cross, E., Hollander, D.J., Huang, Y. and Van Vleet, E., Hydrogen Isotopic Ratios of Lacustrine Algal and Terrestrial Organic Matter as a Quantitative Proxy for the Reconstruction of Relative Humidity and Source Water Composition in Continental Settings. AGU national Meeting, San Francisco CA, December 2004
- Hill, H., Flower, B.P. Hollander, D.J. and Quinn, T.M. Flower, B.P., Hill, JH. enna LoDico, J. , Quinn, T.M., Hollander, D.J., and. Hastings, D.W., Pleistocene Paleoceanography of the Gulf of Mexico: Episodic Meltwater from the Laurentide Ice Sheet, GSA Annual Meeting, Denver, CO., November 2004
- Van Beynen, P., Cross, E. and Hollander, D.J., Comparison of proxy precipitation records for the Gulf of Mexico, GSA Annual Meeting, Denver, CO., November, 2004
- Hoare, A.M., D.J. Hollander, C.A. Heil, S. Murasko, P.M. Glibert, M. Revilla, and J. Alexander, Everglades Restoration and its Potential Impact on Nutrient Cycling and Ecosystem Structure in Florida Bay, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 2004.
- Cross, E., Hollander, D.J., Huang, Y. and Van Vleet, E., Hydrogen isotopic ratios of algal and terrestrial organic matter in Lake Tulane, FL: From a modern calibration to the reconstruction of paleoclimatic and paleohydrologic conditions, , Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 2004.
- C. Heil, C., Glibert, P/, O'Neil, J., Dennison, W., Hollander, D., O'Donohue, M., Costanzo, S., Greenwood, J., Revilla, M., Hoare, A., Alexander J., & Murasko" S., Comparative analysis of nutrient cycling & microbial dynamics in two eutrophied subtropical estuaries: Florida Bay, USA, & Moreton Bay, Australia, ASLO National Conference, Salt Lake City, UT, April 2004.

2003

- Hollander, D.J., Cross, E.,Y. Huang, and E. Van Vleet, Reconstructing Holocene Atmospheric Circulation Patterns and Hydrologic Conditions in Sub-Tropical North America Utilizing D/H Analysis of Late Holocene Sediments from Lake Tulane, Central Florida. AGU national Meeting, San Francisco CA, December 2003
- Hoare, A.M., D.J. Hollander, C.A. Heil, S. Murasko, P.M. Glibert, M. Revilla, and J. Alexander, From Source to Sink: Linking Dissolved Organic and Inorganic Nutrient Sources from the Everglades to Biological Processes in Florida Bay, GSA Annual Meeting, Seattle, WA., November 2003.
- Cross, E., D. J. Hollander, Y. Huang, and E. Van Vleet, Compound Specific D/H Analysis of Late Holocene Lacustrine Sediments in Sub-Tropical North America: Implications for Reconstructing Atmospheric Circulation Patterns and Hydrologic Conditions, GSA Annual Meeting, Seattle, WA., November 2003.
- Edgar, N T., T. M. Cronin, P. Swarzenski, D. A. Willard, G. R. Brooks, D. W. Hastings# B. P. Flower, D. J. Hollander, D. S. Jones, J. Wehmiller, Quaternary Stratigraphy, Sedimentation and Ecosystem History of Tampa Bay, TB BASIS IV meeting. October 2003.
- Hoare, A.M., D.J. Hollander, C.A. Heil, S. Murasko, P.M. Glibert, M. Revilla, and J. Alexander, Isotopic fingerprinting of nutrient sources and biological sinks in

Florida Bay: A geochemical tool for evaluating ecosystem response to changing nutrient inputs, Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem "*From Kissimmee to the Keys*", Palm Harbor, FL, April 2003.

- Heil, C.A., P. M. Glibert, M. Revilla, J. Alexander, S. Murasko, D. Hollander, and A. Hoare, Phytoplankton and bacterial response to inorganic and organic nutrient enrichment and alteration in Florida Bay: Results from bioassay enrichment experiments, Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem "*From Kissimmee to the Keys*", Palm Harbor, FL, April 2003.
- Glibert, P.M., C.A. Heil, J. Alexander, M. Revilla, S. Murasko, D. Hollander, and A. Hoare, Stoichiometry of the dissolved and particulate nutrient pools, and phytoplankton uptake rates and their relationship with phytoplankton community composition in Florida Bay, Joint Conference on the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem "*From Kissimmee to the Keys*", Palm Harbor, FL, April 2003.
- Cross, E., D. J. Hollander, and Y. Huang, Determining the role of biologic, hydrologic and climatic factors in controlling the D/H composition of algae and terrestrial organic matter from the waters and sediments of Lake Tulane, FL: A Calibration study, 3rd International Limnogeology Congress, Tucson, AZ, February 2003.
- Werne, J., T. Lyons, D.J. Hollander, J. Sinninghe Damsté (2003) Isotopic constraints on sedimentary sulfur cycling and OM sulfurization: From marine to lacustrine systems, 3rd International Limnogeology Congress, Tucson, AZ, February 2003.

2002

- Edgar, T., Swarzenski, P., Greenwood, J., Willard, D. Cronin, T., Brooks, G., Hastings, D., Larson, R., Hine, A., Flower, B., Hollander, D., Suthard, B. and Locker, S., Holocene and Pleistocene marine and non-marine sediment from Tampa Bay, Florida, AGU National Meeting, San Francisco, CA, December 2002.
- Flower, B.P., Hastings, D.W., Hill, H.W., Hollander, D.J., LoDico, J, and Quinn, T.M., Deglacial warming in the Gulf of Mexico preceded Laurentide Ice Sheet meltwater input: Implications for early tropical/subtropical climate forcing, , AGU National Meeting, San Francisco, CA, December 2002.
- Werne, J.P., Hollander, D.J., Lyons, T.W., and Sinninghe Damste, J.S., The role of organic sulfur in global sulfur cycling: Links to inorganic sulfur and microbial processes, Invited Presentation, GSA Annual Conference, Denver, CO, October 2002.
- Haven, J.A., Heil, C.A., Hollander, D.J., Vargo, G., Ault, D., Murasko, S., and Walsh, J.J., Investigation of nutrient sources supporting a *Karenia brevis* bloom in the West Florida shelf using $\square^{15}\text{N}$ and $\square^{13}\text{C}$ stable isotopic analyses, 10th Annual International Conference on Harmful Algal Blooms, St. Petersburg, FL., October 2002.
- Bowker, R. Hoare, A., Cross, E. Hollander, D. and Van Vleet, E., Evaluating the role that regional differences in anthropogenic change have on controlling temporal variations in carbon and nitrogen cycling in Tampa Bay, FL: A comparative study of Lake Maggiore and Safety Harbor, USGS- 2nd Annual Tampa Bay Demonstration Project Conference, St. Petersburg, FL., September 2002.

- Hollander, D.J. and Gong, C., Evaluating ocean-atmosphere CO₂ flux in the coastal oceans and its role in global climate change: Evidence from the Santa Monica Basin, Offshore California, AGU-Ocean Science Meeting, Honolulu, HI, February 2002.
- Werne, J.W., Lyons, T.W., Hollander, D.J., and Sinninghe-Damsté, J., Reduced sulfur in euxinic sediments in the Cariaco Basin: Sulfur isotope constraints on organic sulfur formation, AGU-Ocean Science Meeting 2/02, Honolulu, HI February 2002.
- Meyers, S.R., Sageman, B.B., and Hollander, D.J., Orbital time scales, anoxic events, and controls on the accumulation of organic carbon in the Cretaceous Western Interior Seaway, GSA Meeting April 2002.

2001

- Sutton, P. Hollander, D.J., and Van Vleet, E., Organic geochemical evidence for changes in carbon cycling planktic bioassemblages and terrestrial and wetland plant inputs associated with varying anthropogenic inputs in Tampa Bay, FL, Estuarine Research Federation Conference, Invited Presentation, St. Petersburg, FL, November 2001.
- Werne, J. Hollander, D.J. Lyons, T.W., and Sinninghe-Damsté, J., Compound-specific sulfur isotope constraints on the pathway(s) of diagenetic sulfurization of organic matter, GSA National Meeting, Boston, MA, Invited Presentation, November 2001.
- Hollander, D.J., and Gong, C., Toward an understanding of ocean-atmosphere CO₂ flux in the coastal oceans and its role in global climate change: Evidence from the Santa Monica Basin, Offshore California, 20th International Meeting of Organic Geochemists, EAOG, Nancy France, September 2001.
- Sutton, P. Hollander, D.J., and Van Vleet, E., Evaluating the long term influence that anthropogenic changes have had Tampa Bay, FL: A molecular organic geochemical approach, USGS sponsored conference at MOSI highlighting results from the "Integrated Science Tampa Bay Project", Tampa, FL, August 2001.
- Werne, J.P., D.J. Hollander, T.W. Lyons, E.C. Hopmans, M. Baas, M. Ricci, S. Schouten, J.S. Sinninghe Damsté (2001) Compound-specific sulfur isotope analysis: Methods, problems, and initial applications. Isotope Ratio Mass Spectrometry Users Meeting, Rotterdam, The Netherlands, March 2001

2000

- Schwartz, M., Hollander, D.J., and Stein, G., Changing Patterns of Inter-Regional Exchange: An Analysis of Mesopotamian Influence on a Local Anatolian Exchange Economy in the 4th Millennium BC" 99th Annual Meeting: American Anthropological Association, San Francisco, November 2000.
- Werne, J.P. and D.J. Hollander, Anomalous carbon isotope biogeochemistry in the Cariaco upwelling system: Balancing the effects of biological and oceanographic processes. Goldschmidt Conference, Oxford, U.K., September 2000.
- Hollander, D.J., The interplay between microbial recycling processes and primary productivity as a control on carbon isotope cycling in eutrophic environments: New insights into the origin of isotopic shifts in organic-carbon-rich sediments, Keynote Lecture in Organic Geochemistry, 31st International Geological Congress, Rio De Janeiro, Brazil, August, 2000.

- Werne, J.P., Hollander, D.J. and Sinnignhe-Damste, J., Bulk and molecular sulfur isotope constraints on the timing and pathways of early diagenetic sulfurization of organic matter. Invited Lecture, Gordon Research Conference on Organic Geochemistry, Holderness, NH, August 2000.
- Sageman, B., Hollander, D.J., Murphy, A., Meyers, S. and Lyons, T., Novel approach to interpreting the origin of ancient organic-rich sediment. Invited Lecture, Gordon Research Conference on Organic Geochemistry, Holderness, NH, August 2000.
- Schwartz, M., Hollander, D.J., and Stein, G., Reconstructing Mesopotamian Exchange Networks in the 4th Millennium BC: Geochemical and Archaeological Analyses of Bitumen Artifacts from Hacinebi Tepe Turkey " 32nd International Symposium: Archaeometry, Mexico City, May 2000.

1999

- Smith, M.A. and Hollander, D.J., The influence of microbial recycling processes on the nitrogen isotopic composition of particulate and sedimentary organic matter in an eutrophic environment (Lake Mendota, Wis., USA), Geological Society of America, Denver, CO, October 1999.
- Werne, J., Hollander, D.J., Lyons, T., and Sinnighne-Damsté, J., Timing and pathways of diagenetic sulfurization of organic matter: Implications for the linkages between the biogeochemical cycles of carbon and sulfur, Geological Society of America, Denver, CO, October 1999.
- Meyers, S.R., Sageman, B.B., and Hollander, D.J., Investigation of Milankovich forcing and OAEII expression in the biomarker record of the Cretaceous Western Interior Seaway, Geological Society of America, Denver, CO, October 1999.
- Schwartz, M, Hollander, D.J., and Stein, G., Reconstructing Mesopotamian exchange networks in the 4th millenium B.C.: Geochemical and archeological analysis of bitumen artifacts from Hacinebi Tepe, Turkey, Geological Society of America, Denver, CO, October 1999.
- Sageman, B.B., Murphy, A.E., Werne, J.W., Hollander, D.J., and Lyons, T.W., A tale of black shales: Variation in microbial decomposition processes, Middle-Upper Devonian, Appalachian Basin, Geological Society of America, Denver, CO, October 1999.
- Murphy, A.E, Sageman, B.B. and Hollander, D.J., Eutrophication-anoxia feedback and the Late Devonian Mass extinction in the Appalachian Basin, Geological Society of America, Denver, CO, October 1999.
- Rao, U. and Hollander, D.J., Characterizing carbon and nitrogen cycling in wetlands: axAn integrated elemental, isotopic, and molecular study of dissolved, particulate, and sedimentary organic matter, Geological Society of America, Denver, CO, October 1999.
- Hollander, D.J. and Smith, M.A., The importance of anaerobic processes in controlling seasonal and long-term carbon-isotope cycling in the severely eutrophic Lake Mendota, Wisconsin, USA, European Association of Organic geochemists, 19th International Meeting, Istambul, Turkey, September 1999.
- Werne, J.P., Hollander, D.J., Lyons, T.W., and Sinnighe Damsté, J.S., Organic and inorganic carbon/sulfur interactions in the anoxic Cariaco Basin: Implications for diagenetic formation of organic sulfur compounds, European Association of Organic geochemists, 19th International Meeting, Istambul, Turkey, September 1999.

- Rao, U., Hollander, D.J., Sirivedhin, T., and Gray, K., The dynamics of carbon and nitrogen cycling in a riparian wetland as revealed in the elemental, isotopic, and molecular characterizations of particulate, dissolved, and sedimentary organic matter, European Association of Organic geochemists, 19th International Meeting, Istanbul, Turkey, September 1999.
- Kok, M.D., Werne, J.P., Rijpstra, W.I.C., Robertson, L., Volkman, J.K., Hollander, D.J., and Sinninghe Damsté, J.S., Direct proof of early sulfurization of organic matter in surface sediments, European Association of Organic geochemists, 19th International Meeting, Istanbul, Turkey, September 1999.
- Rao, U., Hollander, D.J., Sirivedhin, T., and Gray, K.A., Comparative isotopic, elemental, and molecular analyses of the seasonal changes in DOM and POM in an anthropogenically influenced riparian wetland, American Society of Limnologists and Oceanographers National Meeting, Santa Fe, NM, February 1999.
- Hollander D.J. and Werne, J.W., Unpredicted carbon and nitrogen isotopic cycling in the Cariaco Basin from the Younger Dryas to present: Implications for interpretation of isotopic variability in upwelling systems, American Society of Limnologists and Oceanographers National Meeting, Santa Fe, NM, February 1999.
- MacGregor, B.J, Stahl, D.A., Baker, B., Moser, D.P., Nealson, K.H., Van Mooy, B., and Hollander, D., Paerl, H.W., Zehr, J., Nitrogen fixation in offshore Lake Michigan: Stable isotope and microbiological evidence, American Society of Limnologists and Oceanographers National Meeting, Santa Fe, NM, February 1999.
- Werne, J.W and Hollander D.J., Compound-specific isotopic records of plankton ecosystem variability in the Cariaco Basin, Younger Dryas to present, American Society of Limnologists and Oceanographers National Meeting, Santa Fe, NM, February 1999.
- Smith, M.A. and Hollander, D.J., Anaerobic processes as a potential control on the carbon isotope cycling of severely eutrophic lakes: A case study of Lake Mendota (Wisconsin), American Society of Limnologists and Oceanographers National Meeting, Santa Fe, NM, February 1999.

1998

- Murphy, A.E., Sageman, B.B., and Hollander, D.J., Interpreting sea-level change from carbon-isotope shifts in organic matter: Examples from the devonian Appalachian Basin, Geological Society of America National Meeting, Toronto, Canada, October 1998.
- Werne, J.W., Hollander, D.J., and Lyons, T.W., How do the low-latitude oceans respond to abrupt global climate variations? A case study of the Cariaco Basin sediments from the Younger Dryas to Present, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1998.
- Werne, J.W., Hollander, D.J., and Sinninghe Damsté, J., Sulfur incorporation into organic matter during early diagenesis: A precursor-product relationship, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1998.
- Smith, M.A. and Hollander, D.J., The importance of anaerobic processes in controlling carbon-isotope cycling in Lake Mendota: An integrated water-column and

- sedimentary geochemical study, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1998.
- Van Mooy, B., Hollander, D.J., MacGregor, B.A., Stahl, D.A., Baker, B., and Nealson, K., Isotope, lipid and nucleic acid analysis of Lake Michigan POM: Coupling of carbon and nitrogen cycling and evidence for nitrogen fixation, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1998.
- Gong, C., Hollander, D.J., and Hayes, J.M., Understanding the behavior of ocean-atmosphere CO₂ flux in coastal oceans: A case study from the Santa Monica Basin, Offshore California, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1998.
- Rao, U., Hollander, D.J., Gray, K., and Sirivedhin, T., Probing the dynamics of carbon and nitrogen cycling in an anthropogenically influenced riparian wetland: A bulk and molecular geochemical approach to the characterization of POM and DOM reservoirs, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1998.
- Murphy, A.E., Sageman, B.B., Hollander, D.J., and Lyons, T.W., Organic-carbon burial and coordinated stasis in the Devonian Appalachian basin: Nutrient recycling and clastic cutoff, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1998.
- Lyons, T.W., Werne, J.P., Hollander, D.J., Murray, R.W., Pearson, D.G., Peterson, L.C., and ODP Leg 165 Scientific Party, Biogeochemical pathways in Holocene and Latest Pleistocene sediments of the anoxic Cariaco Basin: Linkages to paleoceanographic and paleoclimatic variability. Proceedings of the 8th Annual V.M. Goldschmidt Conference, Toulouse, France, August 1998.
- MacGregor, B., Van Mooy, B., Baker, B., Moser, D., Maki, R., Hicks, R., Pearl, H., Nealson, K., Hollander, D.J., and Stahl, D., Molecular evidence for nitrogen fixation and seasonal changes in microbial activity in Lake Michigan, American Society of Microbiologists, June 1998.
- Murphy, A.E., Sageman, B.B., Hollander, D.J., and Lyons, T.W., Eutrophication by episodic water column mixing in the Middle to Late Devonian Appalachian Basin: Biotic and climatic implications, AGU-Spring Meeting, Boston, MA, May 1998.
- Seagren, E., Smets, B., Hollander, D.J., Stahl, D.A., and Rittmann, B.E. Total alkalinity as a bioremediation monitoring tool, First International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Session on Field characterization/monitoring for natural attenuation, May 1998.
- Schwartz, M., Stein, G., Hollander, D.J., and Van Mooy, B., Bitumen sourcing and ancient inter-regional exchange: The use of geochemical techniques to reconstruct 4th Millennium B.C. Mesopotamian colonial networks, Society of American Archeology, Seattle, WA., March 1998.
- Gong, C., Hollander, D.J., and Van Mooy, B., Are coastal oceans always a sink for atmospheric CO₂?- A case study from the Santa Monica Basin sediments, 1998 American Geophysical Union-Oceans Science Meeting (ASLO), San Diego, CA., February 1998.
- Van Mooy, B., Hollander, D.J., MacGregor, B.G., Stahl, D.A., Baker, B., Nealson, K.H., Lipid and nucleic acid characterization of POM: Analysis of water column

carbon and nitrogen cycles in Lake Michigan, 1998 American Geophysical Union-Ocean Science Meeting (ASLO), San Diego, CA., February 1998.

1997

- Hollander, D.J., Rich, J., Werne, J. and Birchfield, G.E., The role of low-latitude productivity on ocean carbon cycles and in controlling atmospheric pCO₂ levels: Evidence from sedimentary biogeochemical records and climate modeling, Invited, American Geophysical Union- National Meeting, December 1997.
- Werne, J., Hollander, D.J., and Lyons, T.W., Ecosystem variability and carbon cycling in the Cariaco basin 15 ka to present: The response of the tropical oceans to global climatic fluctuations, American Geophysical Union- National Meeting, December 1997.
- Lyons, T.W., Clementz, M.L., Murray, R.W., Pearson, D.G., Peterson, L.C., Hollander, D.J., and Werne, J.P., and ODP Leg 165 Scientific Party, Biogeochemical pathways in Holocene and Latest Pleistocene sediments of the anoxic Cariaco Basin: Linkages to Paleoceanographic Variability, American Geophysical Union- National Meeting, December 1997.
- Werne, J., Sageman, B., Hollander, D.J., and Dean, W., Comparative analysis of trace element data from modern and ancient oxygen-deficient settings: Cariaco Basin and Cretaceous Western Interior Seaway, Geological Society of America- National Meeting, Salt Lake City, UT, November 1997.
- Hollander, D.J., Werne, J., and Lyons, T.W., The isotopic and organic geochemical record of productivity and ecosystem changes from the Younger Dryas to present in the anaerobic Cariaco Basin, European Association of Organic Geochemists, 18th International Meeting, Maastricht, The Netherlands, September 1997.
- Gong, C. and Hollander, D.J., The role of anoxia in controlling bulk and molecular composition of organic matter: Implications for reconstructing paleoceanographic conditions, European Association of Organic Geochemists, 18th International Meeting, Maastricht, The Netherlands, September 1997.
- Lyons, T., Murray, R., Pearson, D., Peterson, L., Hollander, D.J., and Werne, J., Pathways of organic remineralization in Holocene and Late Pleistocene sediments of the anoxic Cariaco Basin, Goldschmidt Conference, Tucson, AZ, June 1997.
- Birchfield, E.G., Rich, J., and Hollander, D.J., Sensitivity of the ocean-atmosphere system to changes in bio-productivity and total available carbon in a coupled ocean-atmosphere multi-box model, Spring American Geophysical Union, Baltimore, MD, May 1997.
- Seagren, E.A., Hollander, D.J., Stahl, D.A., and Rittmann, B.E., Integrated bioremediation performance evaluation, Battelle Symposium on In situ and On-site Bioremediation, New Orleans, LA, April 1997.

1996

- Gong, C., and Hollander, D.J., An assessment of molecular and isotopic paleoceanographic proxies: A comparative study of sediments from oxic and anoxic bottom waters in the Santa Monica basin, American Geophysical Union National Meeting, San Francisco, CA, December 1996.
- Werne, J., Hollander, D.J., Lyons, T.W., and Degler, G., The biogeochemical record of organic carbon accumulation and ecosystem dynamics associated with climatic and oceanographic fluctuations from Younger Dryas to present in the anaerobic

- Cariaco Basin, American Geophysical Union National Meeting, San Francisco, CA, December 1996.
- Lyons, T.W., Degeler, G., Hollander, D.J., Werne, J., Murray, R.W., Pearson, D.G., and ODP Leg 165 Scientific Party, An overview of geochemical pathways in Holocene and latest Pleistocene sediments of the anoxic Cariaco Basin: Paleoceanographic implications, American Geophysical Union National Meeting, San Francisco, CA, December 1996.
- Murphy, A.E., Sageman, B.B., and Hollander, D.J., Analysis of Middle to Late Devonian carbon cycle dynamics in the Appalachian Basin: Testing linkages between biogeochemical processes and major faunal turnovers, Geological Society of America National Meeting, Denver, CO, November 1996.
- Hayes, J.M., Hollander, D.J., Wakeham, S.G., and Pease, T., Paleoenvironmental controls on the abundance of ^{13}C in sedimentary organic carbon, American Association of Petroleum Geologists Annual Convention, San Diego, CA, August 1996.
- Gong, C. and Hollander, D.J., Differential contribution of bacteria to sedimentary organic matter in oxic and anoxic environments, Santa Monica Basin, California, Gordon Research Conference on Organic Geochemistry, Holderness School, NH, August 1996.
- Bourgon, G., Seagren, E., Howe, S., Hollander, D., Gong, C., Stahl, D., and Rittmann, B. New Insights Into Evaluating Bioremediation: An Integrated Geochemical and Microbiological Approach, Gordon Research Conference on Organic Geochemistry, Holderness School, NH, August 1996.
- Hollander, D.J., Howe, S., Werne, J., MacGregor, B., Stahl, D.A., Ringelberg, D., White, D.C., Nealson, K., and Moser, D., Nucleic Acid and Lipid Chemical Indicators of Archaeal Activity and their Contribution to Sedimentary Organic Carbon in Anaerobic Sediment, Lake Michigan, Gordon Research Conference on Organic Geochemistry, Holderness School, NH, August 1996.
- Hollander, D.J., Van Mooy, B., Fogel, M.L., Aguilar, C., and Paerl, H.W., Does Phosphate Control $\delta^{13}\text{C}$ and Isotopic Fractionation By Stimulating CO_2 Pumping In Diatoms?, Gordon Research Conference on Organic Geochemistry, Holderness School, NH, August 1996.
- Werne, J., Hollander, D.J., and Lyons, Y.W., Organic Carbon Enrichment in the Modern Anoxic Cariaco Basin: An Analog for Ancient Organic Carbon-Rich Deposits, Gordon Research Conference on Organic Geochemistry, Holderness School, NH, August 1996.
- Hollander, D.J., MacGregor, B.J., Stahl, D.A., Ringelberg, D., White, D.C., Nealson, K.H., and Moser, D., Nucleic acid and lipid chemical indicators of archaeal activity and their contribution to sedimentary organic carbon in anaerobic sediments, Lake Michigan, American Chemical Society, New Orleans, LA, April 1996.
- Gong, C., and Hollander, D.J., The role of anoxia and bacteria in organic matter preservation: A comparative study of oxic and anoxic sediments from the Santa Monica Basin, American Chemical Society, New Orleans, LA, April 1996.
- Seagren, E.A., Rittmann, B.E., Stahl, D.A., and Hollander, D.J., Innovative evaluation methods for bioremediation, American Society of Civil Engineers, National Meeting, Washington, DC, March 1996.

- Fogel, M.L., Aguilar, C., Cuhel, R.L., Hollander, D.J., and Pearl, H.W., Biogeochemical response of a coastal margin to Hurricane Gordon, American Geophysical Union-Ocean Science Meeting, San Diego, CA., February 1996.
- Hollander, D.J., Van Mooy, B., Fogel, M.L., Aguilar, C., and Pearl, H.W., Does phosphate control $\delta^{13}\text{C}$ and isotopic fractionation by stimulating CO_2 pumping in diatoms?, American Geophysical Union -Ocean Science Meeting, San Diego, CA., February 1996.

1995

- Sageman, B. Hollander, D.J., and Murphy, A., Cross-Correlation of independent paleoecological and geochemical proxies: an integrated approach to the origin of fine-grained, organic-carbon-rich facies, Geological Society of America Annual Meeting, New Orleans, LA, November 1995.
- Murphy A., Sageman, B., and Hollander, D., An integrated isotopic and organic geochemical investigation of organic carbon accumulation in black shales of the Devonian Appalachian Basin, western New York, Geological Society of America Annual Meeting, New Orleans, LA, November 1995
- Hayes, J.M., Hollander, D.J., Wakeham, S.G., and Pease, T., ^{13}C in Lipids from marine particulates, 17th International Meeting on Organic Geochemistry (EAOG), San Sebastian, Spain., September 1995.
- Hollander, D.J., Biogeochemical dynamics in a high productivity coastal margin, Invited Presentation at "Interfaces of Geochemistry, Irvington, VA, June 1995.

1994

- Hollander, D.J., Monk, M., Pratt, L. M. and Hayes, J.M., Anoxia can increase rates of organic carbon accumulation: Evidence from a comparison of sediment cores from the Santa Monica Basin, Society of Sedimentary Geology, Penn State University, University Park, PA, November 1994.
- Ariztequi, D., Hollander, D.J., and McKenzie, J.A., Algal dominated organic matter can be either type 1 or type 2: Evidence for biological, chemical and physical controls on organic matter quality, Abstracts of the 4th Latin American Congress on Organic Geochemistry, p. 87, Bucaramanga, Colombia., August 1994.
- Hollander, D.J., Monk, M. Pratt, L., and Hayes, J.M., Increased rates of organic carbon accumulation under anoxic conditions: Evidence from the Santa Monica Basin, AAPG/SEPM, Invited paper in Session on "Organic carbon Burial and Global Change: Perspectives for the Marine Environment", American Association of Petroleum Geologists Abstract Bulletin, v.3, p. 172, Denver, CO., May 1994.

1993

- Hollander, D.J., Hayes, J.M., Wakeham, S.G., and Sun, M.-Y., Calibration of the ϵ_{pCO_2} relationships for marine POC and related biomarkers from primary producers: Results of a time-series study in the Santa Monica Basin, Offshore California, Society of Sedimentary Geology, Penn State University, University Park, PA., September 1993.
- McKenzie, J.A., Hollander, D.J., Oxygen-isotope record in recent carbonate sediments from Lake Greifen, Switzerland (1765 - 1986): Application of continental isotopic indicator for evaluation of changes in atmospheric circulation patterns; American Geophysical Union, EOS Transactions, 74/16, p. 94, Baltimore, MD, May 1993.

- Hollander, D.J., Hayes, J.M., Wakeham, S.G. and Sun, M.-Y., Calibration of ϵ_p -CO₂ relationships: Results of a time-series study in the Santa Monica Basin, American Geophysical Union, Invited Paper, EOS Transactions, 74/16, p. 182, Baltimore, MD., May 1993.
- Wakeham, S.G., Pease, T.K., Hollander, D.J., and Hayes, J.M., Biogeochemical dynamics of $\delta^{13}\text{C}$ in marine POC and related sterols, American Society for Oceanography and Limnology (ASLO), American Geophysical Union-Ocean Science Meeting, Seattle, Washington, April 1993.

1992

- Hollander, D.J., Climatic controls on the temporal distribution of petroleum source rock in the geologic record, American Association of Petroleum Geologist/Institute Francais du Petrole (AAPG/IFP) Research Conference on: Paleogeography, Paleoclimate and Source Rocks, Invited Paper, Paris, France, October 1992.
- Sinninghe-Damsté, J.S., Schouten, S., Kohnen, M.E.L., de Leeuw, J.W., Schoell, M., Hollander, D.J., Hayes, J.M.; Quantitative and carbon isotopic analysis of biomarkers released by sulfur-selective chemolysis of geomolecules: A key to an improved paleoenvironmental assessment, Keynote Lecture, Gordon Research Conference on Organic Geochemistry, Holderness School, New Hampshire, August 1992.
- Hayes, J.M., Hollander, D.J., Xie, T.-M., Wakeham, S.G. and Pease, T., Carbon isotopic composition of sterols and fatty acids from marine particulates, American Chemical Society, San Francisco, CA., April 1992.
- Sinninghe-Damsté, J.S., Kohnen, M.E.L., Baas, M., de Leeuw, J., Hollander, D.J., and Hayes, J.M., Paleoenvironmental changes in the Cretaceous Jurf Ed Darawish deposit as revealed by IRM-GC-MS analysis of desulphurised sulphur-rich macromolecules, American Chemical Society, San Francisco, CA, April 1992.

1991

- Hollander, D.J., Sinninghe-Damsté, J.S., Hayes, J.M., de Leeuw, J.W., and Huc, A.Y., Bulk and molecular isotopic analyses of organic matter in an evaporite sequence: Reconstruction of depositional environments and redox processes, 15th International Meeting of the European Association of Organic Geochemists, Manchester, U.K., September 1991.
- Hollander, D.J., and J.M. Hayes, Carbon isotopic differences in sediments as a means of distinguishing highly productive from stagnant basins: A paleoceanographic perspective on secular variations in atmospheric CO₂, EOS, v. 72/17, p. 167, American Geophysical Union, Baltimore, MD, May 1991.
- Hollander, D.J., Hayes, J.M., and McKenzie, J.A., Reconstruction of redox processes in the water column of Lake Greifen by means of ¹³C analyses of individual organic compounds from sediments, American Chemical Society Abstracts, Abstract No. 36, Atlanta., GA, April 1991.

1990

- Hollander, D.J., Jasper, J.P., Hayes, J.M. and McKenzie, J.A., Carbon-isotopic probes of the equilibration of CO₂ between atmospheres and surface waters. EOS, v. 71/43, p. 399, American Geophysical Union-National Meeting, San Francisco, CA December 1990.

- Hollander, D.J., Environmental controls on the origin and nature of organic-carbon-rich sediments, Keynote Lecture, Gordon Research Conference on Organic Geochemistry, Holderness School, NH, August 1990.
- Huc, A.Y., Hollander, D.J., Herbin, J.P., and Bertrand, P., Vertical variations of organic facies in the Upper Kimmeridgian Shales, (U.K.), Latin American Congress in Organic Geochemistry, Caracas, Venezuela, June 1990.
- Hollander, D.J. and McKenzie, J.A., Effects of changing dissolved CO₂ concentrations and bio-assemblage on isotopic fractionation between organic and inorganic carbon in aqueous environments, Goldschmidt Geochemistry Conference Abstracts, p. 54, Baltimore, MD, April 1990.

1989

- Hollander, D.J., Espitalie, J., Mariotti, A., Behar, F., Vandenbroucke, M. and McKenzie, J.A., Comparison of isotopic and organic geochemical variations between eutrophic Lake Greifen and Toarcian sediments of the Paris Basin: Interpretation of paleo-depositional environments from organic carbon-rich deposits, 14th International Meeting of the European Association of Organic Geochemists, Abstract N^o. 118, Paris, France, September 1989.
- McKenzie, J.A., Hollander, D.J., and Japy, K.; Carbon isotope variation at the Cretaceous/Tertiary boundary: Evidence for environmental degradation subsequent to a major extraterrestrial impact, International Geological Conference, Washington D.C., May 1989.
- McKenzie, J.A., Hollander, D.J., and Japy, K., Carbon cycling in eutrophic lakes: Models for carbon isotopic excursions in Middle Ordovician algal-dominated (Gloecapsomorpha) organic matter, SEPM-AAPG Annual Meeting, v. 73/3, p. 389, San Antonio, Texas, March 1989.
- Hollander, D. J., Behar, F., Vandenbroucke, M. and McKenzie, J.A.; The evolution of organic matter in an eutrophic lake system: The transition from biological material to kerogen with implications for the origin of lacustrine type 1 oils, Society of Economic Paleontologists and Mineralogists - American Association of Petroleum Geologists (SEPM-AAPG) Annual Meeting, v.73/3, p. 364, San Antonio, Texas, March 1989.
- Hollander, D.J. and Garrison, R.E., Influence of depositional environments on the origin of secondary carbonates and the diagenesis of organic matter, Tertiary Basinal Units, La Honda Basin, Santa Cruz Mountains, California, SEPM/AAPG Annual Meeting, AAPG, v. 73/3, p. 364, San Antonio, Texas, March 1989.
- Hollander, D.J. and McKenzie, J.A., Variations in $\delta^{13}\text{C}$ values of organic matter as a function of changing CO₂ concentration, European Union of Geosciences (EUG), Terra Abstracts, v.1/1, p. 186, Strasbourg, France, February 1989.

1988

- Hollander, D. J., McKenzie, J.A., and Vandenbroucke, M., Secular variation in the geochemistry of organic carbon-rich sediments: The application of an eutrophic lake model to the Cenomanian/Turonian event (OAE), Geological Society of America 100th Annual Meeting, v. 20, no. 7, Denver, Colorado, November 1988.

Hollander, D.J., McKenzie, J.A., and Hsü, K.J., Productivity induced changes in the carbon-13 isotopes of organic matter and carbonates, Lake Greifen: A possible paleoproductivity and paleo-CO₂ indicator, American Association of Petroleum Geologists- Mediterranean Basin Conference, v. 72/8. p. 1007, Nice, France, July 1988.

1987

Colgan, W.F. and Hollander D.J., Sedimentological succession of an uplifted coral community, Urvina Bay, Isabela Island, Galapagos Archipelago, Ecuador, American Association of Petroleum Geologists- Annual Convention, Los Angeles, August 1987.

1984

Kastner, M., Mertz, K., Hollander, D.J., and Garrison R., The association of dolostone-phosphorite-chert: Causes and possible diagenetic sequences, Dolomite Symposium, SEPM, San Diego, June 1984.

University and Institutional Seminars (All Invited Talks):

2013:

Hollander, D.J., G. R. Brooks, D. J. Hollander, R. Larson, I. Romero, P. Schwing, K. Watson, N. Zenzola; D.W., Hastings, J. Chanton, J. Kostka. W. Overholt, Assessing oceanographic response to the Deepwater Horizon blowout through high-resolution analysis of marine sediments. GRI Deep C Synthesis and Planning Workshop, Tallahassee, FL. February 2013
GRI C-IMAGE PIs Meeting, Theme Leader, Overview of Center Activities Related to the Mechanisms and Fate of Sedimentary Hydrocarbon Deposition, New Orleans, LA, January 2013

2012

Gordon Research Conference on Organic Geochemistry, Session Leader on "Thermogenic Hydrocarbons in the Contemporary Environment", Holderness School, NH, August 2012
Environmental Film Festival Seminar Series, Eckerd College, April 2012.
GRI C-IMAGE PIs Meeting, Theme 2 Leader, Overview of Center Activities Related to the Fate and Transport of Hydrocarbons, St. Petersburg, FL January 2012

2011

Department of Geology and Geophysics, Yale University, Host: Mark Pagani, June 2011.
Environmental & Water Resources Engineering (EWRE) Seminar, USF-Tampa, Host: Daniel Yeh, 4/25/2011.
Smithsonian's National Museum of Natural History (NMNH) and the Centers for Ocean Sciences Education Excellence (COSEE), *Changing Tides* evening lecture series, panel discussion and "Scientist Is In" program in the Sant Ocean Hall. Hosts: N. Knowlton and B.C. Hoekenga, Smithsonian Institution, and G. Scowcroft, COSEE, Washington DC, 4/18-19/2011.
National Science Teachers Association national convention in San Francisco, CA,

March 10 - 13, 2001, COSSEE Network Luncheon Seminar, Host: Leisl Hotaling and G. Scowcroft, 3/12/11.

Saints Stephen's Repertory School, Bradenton, FL, Lecture in Marine Biology Class- Host: Chi Tran-Klein, Wednesday, 02/23/11.

USF-St. Petersburg: Town n' Gown Ceremony- Community Outreach: Faculty panel to discuss the rapid response of the CMS to the BP Deepwater Horizon oil spill, USF-St. Petersburg Campus, 1/21/11.

2010

Whitney Laboratory of Marine Biosciences, University of Florida, St. Augustine, FL, Coordinator: B. Batelle 11/18//10

Sierra Club- Gulf of Mexico Oil Spill: Public Forum St. Petersburg, FL, Host: P. Compton 11/16/10

ResearchOne-USF, Keynote Lecture, Deepwater Horizon oil disaster, its effects and USF's role in the crisis, Symposium highlighting university science and innovation, 11/11/10.

Tampa Bay Partnership, 3 CMS faculty lectures on the state of the Gulf oil spill, St. Petersburg, 8/31/10

2007

Mote Marine Laboratory, Sarasota FL., Coordinator: Glenn Shin, 9/07.

Large lakes Observatory, University of Minnesota, Duluth, Coordinators: J. Werne, E. Brown, 11/07.

2006

Departments of Civil and Environmental Engineering and Environmental Science and Policy, ERIC Seminar Series, USF-Tampa, Coordinator: D. Yeh,

2005

Climate Change Institute, University of Maine, Orono Coordinators: K. Maasch, G. Denton .

2004

Department of Biological Sciences, University of South Florida/Tampa, Coordinator K.T. Scott.

2003

Department of Geological Sciences, University of Florida, Gainesville, Coordinator: Mark Brenner and Jim Channel

Department of Geology, University of South Florida, Gainesville, Coordinator: Peter Harries

2002

Department of Geological Sciences, Brown University, Coordinators: Profs. Tom Webb/Yongsong Huang

College of Marine Sciences, University of South Florida.

Marine Sciences Research Center, State University of New York/Stony Brook, Coordinators: Profs. Mary Scranton/Gordon Taylor

Department of Geology, University of South Florida, Coordinator: Prof. Peter Harries

2000

College of Marine Sciences, University of South Florida
Geophysical Laboratories, Carnegie Institution of Washington, Coordinator: Dr.
George Cody

Netherlands Institute of Sea Research (NIOZ), Texel, The Netherlands, Coordinator:
Prof. Jaap Sinnighe Damsté .

1999

Department of Geological Sciences, University of Michigan, Coordinator: Prof. Phil
Meyers.

University of Chicago, Geochemistry and Geophysics Seminar, Coordinator: Prof.
David Archer.

Department of Geology and Fuel Resources, University of New Castle upon Tyne,
England, Coordinator: Prof. P. Farrimond.

Department of Geological Sciences, University of Cincinnati, Ohio, Coordinator: Prof.
Tom Algeo.

1998

Brushy Canyon Oil Company Consortium, Washington Ranch, Guadeloupe
Mountains, NM, Coordinator: Prof. J. Gardner.

1997

Department of Civil Engineering, McCormick School of Engineering, Northwestern
University, Coordinator: Prof. Barbara Ann Lewis.

Department of Geology, University of Iowa, Iowa City, Iowa, Coordinator: Dr. Greg
Ludvigson.

Department of Geological Sciences, University of Missouri, Columbia, Missouri,
Coordinator: Prof. Timothy Lyons.

1996

College of Marine Studies, University of Delaware, Lewes, Delaware, Coordinator:
Profs. David Kirchman and John Sharp.

1995

Department of Earth Sciences, Dartmouth College, Hanover, New Hampshire,
Coordinator: Prof. C. Page Chamberlin.

Center for Great Lakes Research, University of Wisconsin, Milwaukee, Coordinator:
Prof. Russel Cuhel.

Geologisches Institut, Swiss Federal Institute of Technology, ETH-Zurich,
Coordinator: Prof. Judith A. McKenzie.

The Graduate School, Northern Illinois University/DeKalb, Coordinator: Prof. J.L.
Walker.

University of Chicago, Geochemistry and Geophysics Seminar, Coordinator: Prof. Bob
Newton.

Shell Research BV, Shell Exploration and Production Laboratory, Rijswijk, The
Netherlands, Coordinator: Dr. Wickert Visser.

1994

Department of Marine Sciences, University of South Florida, Coordinator: Prof. John
Compton.

Department of Geological Sciences, University of Illinois/Urbana-Champaign,
Coordinator: Prof. Tom Anderson.

Department of Civil and Environmental Engineering, McCormick School of
Engineering, Northwestern University, Coordinator: Prof. Barbara Ann
Lewis.

1993

Department of Geology, University of Bergen, Bergen, Norway, Coordinator: Prof.
Michael Talbot.

Department of Geology, University of South Carolina, Coordinator: Prof. Douglas
Williams.

Skidaway Institute of Oceanography, Savannah, GA, Coordinator: Prof. Stuart
Wakeham.

1992

Department of Geology, Limnological Research Center, University of Minnesota,
Minneapolis, MN, Coordinator: Prof. Kerry Kelts.

Lake Research Station, University of Wisconsin, Madison, WI, Coordinator: Prof. Karl
Bowser.

CO₂ Research Division, Scripps Institution of Oceanography, University of
California/San Diego, La Jolla, CA, Coordinator: Prof. C. D. Keeling.

Department of Geological Sciences, University of Illinois/Chicago, Coordinator: Prof.
Carol Stein.

1991

Earth Science Board and Institute of Marine Studies, University of California/Santa
Cruz, Santa Cruz, CA, Coordinator: Prof. Robert E. Garrison.

Department of Geological Sciences, Stanford University, Stanford, CA, Coordinator:
Prof. Simon Brassell.

School of Oceanography, Washington State University, Seattle, WA, Coordinator:
Prof. Steve Emerson.

College of Oceanography, Oregon State University, Corvallis, OR, Coordinator: Prof.
Fred Prah.

Scripps Institution of Oceanography, University of California/San Diego, Coordinator:
Prof. Miriam Kastner.

Department of Geology and Geophysics, Yale University, New Haven, CT,
Coordinator: Prof. Robert Berner.

1990

Centre des Faibles Radioactivites, CNRS-CEA, Gif Sur Yvette, Coordinator: Prof.
Claude Duplessey.

Laboratoire des Isotopes Stables, University of Pierre and Marie Curie, Paris VI,
Coordinator: Prof. Andre Mariotti.

Kernforschungsanlage (KFA), Jülich, Germany, Coordinator: Prof. Detlev Leythausen.

Biogeochemical Laboratories, Indiana University, Coordinator: Prof. John Hayes.

Department of Geological Sciences, Princeton University, Coordinator: Prof. Gerta
Keller.

Board of Earth Sciences and Department of Marine Sciences, University of
California/Santa Cruz, Coordinators: Profs. Bob Garrison and Ken Bruland

Peer-Review and Related Activities:

Research Proposals Review for Funding Agencies (1992- Present)
 National Science Foundation- Earth Science Division
 Geology and Paleontology Program
 Geologic Record of Global Change Program
 National Sciences Foundations- Ocean Science Division
 Marine Geology and Geophysics Program
 Chemical Oceanography Program
 National Science Foundation- Atmospheric Science Division
 Climate Dynamics Program
 Department of Energy
 Sea Grant: Illinois, Hawaii
 National Institute for Global Environmental Change (DOE-NIGEC)
 American Chemical Society-Petroleum Research Fund
 National Environmental Research Council (NERC-British
 Swiss National Science Foundation (Schweizerischer Nationalfonds zur
 Forderung)
 Army Corp of Engineers, Chicago District, Illinois Shoreline Erosion Study.

Manuscript Review for Journals (1992 - Present)

Proceeding of the National Academy of Science -PNAS
 Nature
 Geochimica et Cosmochimica Acta
 Global Biogeochemical Cycles
 Organic Geochemistry
 Geology
 Chemical Geology
 G-Cubed
 American Association of Petroleum Geologists Bulletin
 Paleogeography, Paleoclimatology and Paleoecology
 Limnology and Oceanography

Tenure and Promotion Review

Woods Hole Oceanographic Institution, Woods Hole, MA
 University of Minnesota
 University of California

Professional Affiliations and Service:

Gulf of Mexico Alliance (GOMA)- Steering Committee (2007-Present)
 Nutrient Cycling Task Force- Develop research strategy and protocol for
 assessing the status of estuarine ecosystems throughout the Gulf of Mexico.

Member:

American Geophysical Union
 Geochemical Society
 American Society of Limnologists and Oceanographers
 Geological Society of America

European Association of Organic Geochemists

Membership in the Editorial Board:

Chemical Geology, Elsevier Science, 1999-2001.

Conference Session Chair:

- 2012: Gordon Research Conference on Organic Geochemistry, Session Leader on "Thermogenic Hydrocarbons in the Contemporary Environment", Holderness School, NH.
- 2004: American Geophysical Union, National Meeting, "Continental Paleoclimate Proxies: From Calibration to Quantitative Reconstructions", San Francisco, CA
- 1997: European Association of Organic Geochemists (EAOG), 18th International Meeting, Maastricht, The Netherlands.
- 1995: American Association of Petroleum Geologists, "Application of Compound-Specific Isotopic Analysis to Petroleum Exploration and Production", Houston, Texas.

Workshop Coordinator:

- 1997: Workshop on the Biogeochemical Dynamics of the Orca Basin, Presentation of results from a series of oceanographic cruises to the Orca Basin, Hosted at the Department of Geological Sciences, Northwestern University (August 21-22, 1997). (Co-organizer: P. Van Cappellen)

Technical Review Committee Member:

- 1996 - Present: Army Corp of Engineers, Chicago District
Provide expertise on sediment transport and slope stability for Lakefront Erosion Study: Interim IV (Waukegan to Wilmette), Program Manager: Philip Bernstein..

Teaching and Advising**Area of Graduate and Undergraduate Teaching:**

Isotopic Biogeochemistry
Organic Geochemistry
Sedimentary Geochemistry and Chemical Sedimentology
Paleoceanography and Paleolimnology
Global Geochemical Cycles and Earth Systems Science
Laboratory Techniques in Organic and Stable Isotope Geochemistry
Field Methods in Marine Biogeochemistry

Courses Taught:**College of Marine Science, USF (September 2000 - Present)**

<u>Dates Taught</u>	<u>Course #</u>	<u>Course Title, Grading, Enrollment</u>
S/2013	OCE 6934	<i>Stable Isotopes in Marine Science</i> , Team taught with Dr. Shevannel, Format: lectures, student presentations Grading: Midterms, presentations Enrollment: 7

S/2012	OCE 6050	<i>Chemical Oceanography</i> Coordinator team taught with Drs. Byrne & Van Vleet, Format: lectures Grading: Midterm and Final Exams Enrollment 25
S/2011	OCE 6050	<i>Chemical Oceanography</i> Coordinator teams taught with Drs. Byrne & Van Vleet, Format: lectures Grading: Midterm and Final Exams Enrollment 25
F/2011	OCE 6934	Deepwater Horizon: The whole story Team taught (with J. Paul) Enrollment 5
S/2010	OCE 6050	<i>Chemical Oceanography</i> Team Taught with Drs. Byrne & Van Vleet, Format: lectures Grading: Midterm and Final Exams Enrollment 20
F/2010	OCE 6934	Geology of the Gulf of Mexico (Team taught with Dr. Hine). Format: Lectures, student talks, papers Grading: paper & presentation. Enrollment 10
S/2010	OCE 6934	<i>Stable Isotopes In Marine Sciences.</i> (Team taught with Dr. Flower). Format: Lectures and student presentations Grading: testing, paper & presentation. Enrollment 5
S/2010	OCE 6050	<i>Chemical Oceanography</i> Team Taught with Drs. Byrne & Van Vleet Format: lectures Grading: Midterm and Final Exams Enrollment 15
F/09	OCE 6934	Organic Geochemistry Format: lectures Grading: Testing, Paper & Presentation Enrollment 6
S/09	OCE 6050	<i>Chemical Oceanography</i> Coordinator, Team Taught with Drs. Byrne & Van Vleet), Format: lectures Grading: 10+ Quizzes and Final Exam, Enrollment 22
S/08	OCE 6934	<i>Stable Isotopes In Marine Sciences.</i> (Team taught with Dr. Flower). Format: Lectures and student presentations Grading: Midterm, research topic presentation. Enrollment 7.
S/08	OCE 6050	<i>Chemical Oceanography</i>

			Coordinator, Team Taught with Drs Byrne and Van Vleet)) Format: lectures Grading: 10+ Quizzes and Final Exam, Enrollment 22
S/07	OCE 6050	<i>Chemical Oceanography</i>	Coordinator, Team Taught with Drs Byrne and Van Vleet)) Format: lectures Grading: 10+ Quizzes and Final Exam, Enrollment 22
S/06	OCE 6050	<i>Chemical Oceanography</i>	(Coordinator, Team Taught with Drs Byrne and Van Vleet)) Format: lectures Grading: 10+ Quizzes and Final Exam Enrollment 28
F/06	OCE 6934	<i>Stable Isotopes In Marine Sciences.</i>	(Team taught with Dr. Quinn). Format: Lectures and student presentations Grading: Midterm, research topic presentation. Enrollment 10.
S/05	OCE 6050	<i>Chemical Oceanography</i>	(Coordinator, Team Taught with Drs Byrne and Van Vleet)) Format: lectures Grading: 10+ Quizzes and Final Exam Enrollment 28
F/04	OCE 6934	<i>Stable Isotopes In Marine Sciences.</i>	(Team taught with Dr. Quinn). Format: Lectures and student presentations Grading: Midterm, research topic presentation. Enrollment 10.
S/04	OCE 6050	<i>Chemical Oceanography</i>	(Coordinator, Team Taught with Drs Byrne and Van Vleet)) Format: lectures Grading: 10+ Quizzes and Final Exam Enrollment 28
F/03	OCE 6934	<i>Sedimentary Geochemistry</i>	(Taught as sole instructor) Format: Lectures and student presentations Grading: Midterm, presentation, paper Enrollment 7
F/03	OCE 6934	<i>Field Methods in Marine Biogeochemistry</i>	(Team taught with Dr. Flower) Format: Lectures and student presentations Grading: Midterm, presentation, paper Enrollment 7
S/03	OCC6050	<i>Chemical Oceanography</i>	(Team Taught with Drs Byrne and Van Vleet)) Format: Lectures (presented 9 of 27 lectures)

F/02	OCE 6934	Grading: 10+ Quizzes and Final Exam , Enrollment 20. <i>Stable Isotopes In Marine Sciences.</i> (Team taught with Dr. Quinn). Format: Lectures and student presentations Grading: Midterm, research topic presentation. Enrollment 10.
F/01	OCC6050	<i>Chemical Oceanography</i> (Team Taught with Drs Byrne and Van Vleet)) Format: Lectures (presented 9 of 27 lectures) Grading: 10+ Quizzes and Final Exam
F/01	OCE 6934	<i>Field Methods in Marine Biogeochemistry</i> (Team taught with Dr. Flower) Format: Lectures and student presentations Grading: Midterm, presentation, paper Enrollment 7
F/00	OCE 6934	<i>Stable Isotopes In Marine Sciences</i> (Team taught with Drs. Flower and Quinn) Format: Lectures and student presentations Grading: Midterm, presentation, paper Enrollment 5
F/00	OCC6050	<i>Chemical Oceanography</i> (Team Taught with all Chem. Oceanog. Faculty) Format: Lectures (presented 2.5 of 27 lecturs) Grading: Midterm, Final, Problem Sets Enrollment ~25

While at Northwestern University (September 1992 - August 2000)

(Note: NU uses a trimester system F=Fall, W=Winter, and S=Spring Quarters)

<u>Dates Taught</u>	<u>Course #</u>	<u>Course Title, Grading, Enrollment</u>
F93, W95, S96, F96, F97, W99, F99	A06 -	<i>The Atmosphere, The Ocean, and Our Climate</i> Format: lecture, discussion, laboratory exercises Grading: Midterm, Final, and lab grade Average Enrollment: ±100
F94	C01 -	<i>Environmental Biogeochemistry</i> (Team Taught: 70% Lerman; 30% Hollander) Format: lectures Grading: Midterm, final, and term paper Enrollment: 11
S93	C13 -	<i>Sedimentary Geology</i> Format: Lectures and discussions Grading: Midterm, final, and term paper Enrollment: 7

S94, W96, W00	C16 -	<i>Sedimentary Geochemistry</i> Format: Lectures Grading: Midterm, final and term paper Average Enrollment ± 8
W95, F97, F99	C18 -	<i>Stable Isotope Geochemistry</i> Format: Lectures Grading: Midterm, final and term paper Average Enrollment ± 7
S96, W98	D50 -	<i>Advanced Topics in Sedimentary Geology</i> (Team Taught: 50% Hollander; 50% Sageman) Format: Graduate seminar - lecture/ discussion Grading: Class participation/presentation Average Enrollment 6-8

Curriculum Development:

Since at College of Marine Sciences, USF (September 2000-Present)

- 2010 New Course OCE 6934, Geology of the Gulf of Mexico
Team Taught with Dr. A. Hine
- 2005 New Course OCE 6934, Organic Geochemistry
New Course- OCE 6934, Marine Biogeochemistry,
- 2002 New Course- OCE 6934, Sedimentary Geochemistry,
- 2001 New Course, OCE 6934- Field Methods in Marine Biogeochemistry,
Team Taught with Dr. B. Flower
- 2001 Developed 9 lectures for OCC 6050- Chemical Oceanography, Team
Taught with Drs. B. Byrne and T. Van Vleet.,
- 2000 New Course OCE 6934- Stable Isotopes in the Marine Sciences team
taught with Drs. B. Flower and T. Quinn.
- 2000 Developed 2 lectures for OCC 6050, Introduction to Chemical
Oceanography, Team taught with all chemical oceanography faculty

While in residence at Northwestern University (1992-2000)

- 1997 Invited to participate in IGERT grant to National Science Foundation
(Integrated Graduate Education and Research Training program) linking
Departments of Civil Engineering/Environmental Engineering, Chemistry, and
Geological Sciences.
- 1996 Developed D50 seminar (Advanced Topics in Sedimentary Geology) with B.
Sageman for undergraduate and graduate students working in sedimentary
geology and geochemistry.
- 1995 Developed New Course C18 (Stable Isotope Geochemistry), Approved for
credit by CAS and Graduate School.
- 1994 Developed New Course C16 (Sedimentary Geochemistry), Approved for credit
by CAS and Graduate School.
- 1994 Redesigned CO1 (Environmental Bio geochemistry), complete revision of
existing course.
- 1993 Redesigned C13 (Sedimentary Geology), complete revision of existing course.

1993 Redesigned A06 (The Atmosphere, The Ocean, and Our Climate), complete revision of existing course.

GRADUATE AND UNDERGRADUATE ADVISING:
SINCE AT USF-CMS (2000-PRESENT)

Post-Doctoral Fellows (Suopervisor).

Dr. Isabel Romero, 2011-Present, GRI C-IMAGE funded

Dr. Greg Ellis, Summer 2012- Present, NSF-P2C2 funded

Dr. Patrick Schwing, 2012 – Present, GRI C-IMAGE and Deep-C funded

Dr. M. Alfonso-Garcia, 2012-Present, Comer Foundation, NSF-MG&G Funded

Dr. Tim Ourbak, 2006-2008, CMS Post-Doctoral Fellow

Ph.D. Degree (Major Professor):

Jenny Fenton, USF-CMS, Biological/Chemical Oceanography, Committee Chair,
Start 2012.

Greg Ellis, USF-CMS Chemical Oceanography, Committee Chair, Matriculated Spring 2012.

Ana Coye-Hoare, USF-CMS, Chemical Oceanography, Committee Chair, Matriculated Fall
2011.

Elon Malkin, USF-CMS Chemical Oceanography, Committee Chair, Matriculated Fall 2010

Julie Richey, USF-CMS, Chemical/Geological Oceanography, Committee Chair,
Matriculated Spring 2010.

M.S. Degree (Major Professor):

Kathleen Watson, USF-CMS Chemical Oceanography, 2011- Present

Adam Brahme, USF-CMS Chemical Oceanography, Matriculated 2012

Anthony Nitti, USF-CMS Chemical Oceanography, Matriculated Fall 2010

Marianne Dietz, USF-CMS Chemical Oceanography, Matriculated Spring 2008

Jennifer Flannery, USF-CMS Chemical Oceanography, Matriculated Spring 2008

Chris Maupin, USF- Geological Oceanography, Matriculated Spring 2008

Eric Cross, USF-CMS, Chemical Oceanography, Matriculated Summer 2006

Denise Palmer, Chemical Oceanography, Matriculated Summer 2006

Ph.D. Degree (Committee Member)

James Patten, USF-CMS, Chemical Oceanography/COT, 2004-Present

Laura Lorenzoni, USF-CMS, Biological Oceanography, Matriculated 2012

Gigna Rueda-Roa, USF-CMS, Biological Oceanography, Matriculated 2012

Enrique Montes, USF-CMS, Biological Oceanography, Matriculated 2011

Kristine DeLong, USF-CMS, Geological Oceanography, Matriculated Fall 2008

Luca Lai, USF/Tampa- Anthropology, Matriculated 2008

Linae Boehme, USF-CMS, Chemical Oceanography, Matriculated 2007

Lori Adornato, USF-CMS, Chemical Oceanography, Matriculated 2007

Heather Hill, USF-CMS, Geological Oceanography, Matriculated 2006

Jennifer Smith, USF-CMS, Geological Oceanography, Matriculated 2006

M.S. Degree (Committee Member)

Susan Synder, USF-CMS, Biological Oceanography, 2012-present
 Jacqueline Hipes, USF-CMS, Biological Oceanography, 2012-present Sky
 Williams, USF-CMS, Biological Oceanography, 2010-present
 Amy Wallace, USF-CMS, Biological Oceanography, 2010-Present
 Holly Rolls, USF-CMS, Biological Oceanography, 2009-Present

Ryan Bell, USF-CMS, Chemical Oceanography, Matriculated 2008
 Peter Wenner, USF-CMS, Chemical Oceanography/COT, Matriculated 2008
 Limaris Soto, USF/Tampa- Environmental Science and Policy, Matriculated 2006
 Kristine DeLong, USF-CMS, Geological Oceanography, Matriculated 2006
 Julie Richey, USF-CMS, Geological Oceanography, Matriculated 2005
 Hali Kilbourne, USF-CMS, Geological Oceanography, Matriculated 2004
 Julie Haven, USF-CMS, Biological Oceanography, Matriculated 2004
 Christy Stephens, USF-CMS, Geological Oceanography, Matriculated 2004

Undergraduate Senior Theses:

- 2012: Nicola Zenzola, Using Isotopic and Elemental Techniques in Sediment Cores to Investigate Organic matter Petroleum Traces Caused by Deepwater Horizon Blowout, Eckerd, College, St. Petersburg, FL.
- 2006: Jan Trienkens, Isotopic and organic biogeochemistry of modern and ancient ooids: Assessing the role of microbes in the precipitation of modern and ancient ooids from the Bahama Bank: An isotopic and organic biogeochemical study, Eckerd, College, St. Petersburg, FL.
- 2005: Jen Flannery, Evaluating the oceanic and continental responses to climate changes over the past 2000: A organic geochemical study of Sediment Cores from the Pigmy Basin, Gulf of Mexico. Eckerd, College, St. Petersburg, FL.
- 2005: David Adams, Reconstruction of hydrologic conditions in Florida (Lake Tulane) over the past 2000 years: Insight from the application of molecular hydrogen isotopic analyses, Eckerd College, St. Petersburg, FL.

POST GRADUATE, GRADUATE AND UNDERGRADUATE ADVISING:

While at Northwestern Univ. (1992-2000)

Ph.D. Degree (Major Professor):

Josef Werne, Geological Sciences, Northwestern University, Ph.D. completed March 2000, Thesis Title "A Geochemical Evaluation of Depositional Controls and Paleoenvironmental Reconstructions in Organic-Rich Sedimentary Deposits: Evidence from the Modern Cariaco Basin, Venezuela, and Application n to the Devonian Appalachian Basin", Co-advisors Drs. B. Sageman and T. Lyons. Current Position-Assistant Professor, Large Lakes Observatory and Department of Chemistry, University of Minnesota-Duluth.

Jonathan Rich, Geological Sciences, Northwestern University, Ph.D. completed November 1999, Thesis Title: "The Role of Regional Bioproductivity on

Atmospheric CO₂ Changes”, Co-advisors E. Birchfield, Current Position: Computer Specialist, Silicon Valley, CA.

Changrui Gong, Geological Sciences, Northwestern University, Ph.D. completed June 1998, Thesis Title: “An Organic and Isotopic Geochemical Study of Santa Monica Basin Sediments, Offshore California”, Current Position, Exxon-Mobil Production and Research, Houston, Texas.

Ph.D Degree (Co-Advisor):

Mark Schwartz, Archeology/Anthropology, Northwestern University- Ph.D. completed May 2003, Dissertation “Reconstructing Mesopotamian exchange networks in the 4th Millennium BC: Geochemical and archeological analysis of bitumen artifacts from Hacinebi Tepe, Turkey, Main Advisor-Dr. Gil Stein.

Adam Murphy, Geological Sciences, Northwestern University, Ph.D. completed June 2000, Dissertation Title: Physical and Biogeochemical Mechanism of Black Shale Deposition, and Their Implications for Ecological and Evolutionary Change in the Devonian Appalachian Basin, Major Professor: B. Sageman Current Position: Preparatory School Science Teacher, Millbrook School, Millbrook, New York.

M.S. Degree (Major Professor):

Paul Forward, Geological Sciences, Northwestern University, M.S. Completed March 1994.

Josef Werne, Geological Sciences, Northwestern University, M.S. Completed October 1998.

M.S. Degree (Co-Advisor): .

Adam Murphy, Geological Sciences, Northwestern University, (Main Advisor: Dr. B. Sageman), MS completed November 1997.

Ph.D. Committee Member/Dissertation Reader

1999 - Robert Brown (Univeristy of Newcastle upon Tyne)

1998 - Adam Kanouse

1995 - Jerome Cruz,

1994 - Zhixin Xie

1993 - Huaxiao Wang

Post-Doctoral Fellows (Main Advisor)

Dr. Usha Rao, 1997-1999, Northwestern University’s Environmental Council Post-Doctoral Fellowship, Co-advisor: K. Gray (Civil Engineering-Environmental Engineering), Current Position: Assistant Professor, Chemistry Department, St. Josesph's College, Philedelphia, PA.

Post-Doctoral Fellows (Co-Advisor).

Dr. Charles A. Ver Straeten, 1995-1997, Northwestern University’s Environmental Council Post-Doctoral Fellowship, Main Advisor: B. Sageman (Geological Sciences), Current Position: Researcher, New York Geological Survey, Albany, NY.

Dr. Eric Seagren 1994-1996: Illinois Hazardous Waste Research and Information Center funded fellowship, Main Advisor Bruce Rittmann (Civil Engineering-Environmental Engineering), Current Position, Assistant Professor, Department of Civil engineering, University of Maryland, College Park., MD.

Dr. Barbara MacGregor, 1995-1999, NSF-Ecology funded project "Molecular Measures of Microbial Community Structure in Relationship to Sediment Biogeochemistry" Main Advisor: David Stahl (Civil Engineering/Environmental Engineering), Current Position: Max-Plank Institute, Germany.

Undergraduate Independent Research:

		Research Semesters
W97 - S97	Paul Niles (Major: Geology)	3
W97 - S97	Sharminan Bohari (Major: Geology (Honors)) Now at Petronas Inc. Malaysian Oil Company.	2
W97 - S97	Lora Murphy (Majors: Geology (Honors- Main Advisor) and Environmental Sciences), Now at Anderson Consulting.	2
S95 - F96	Gregory Bourgon (Majors: Geology and Geography)	2
W94 - F94	Ben Van Mooy (Majors: Geology (Honors), and Chemistry) Now at Univ. of Washington/School of Oceanography.	2
S94	Michael Rosenberg (Majors: Geology and Biology)	1
F92 - W93	Jennifer Weber (Major: Geology)	3

Undergraduate Summer Employment:

1998: Frannie Skomurski (University of Illinois/Urbana-Champagne)
 1997: Sharminan Bohari, NU
 1995 - 1996: Greg Bourgon, NU
 1993 - 1995: Ben Van Mooy, NU

High School Student Advising and Employment:

1996: Emily Okal (Science Requirement- Evanston Township High School- ETHS)
 1997: Frannie Skomurski (Highland Park High School)

Other Activities Related to Teaching and Advising:

Established Graduate Student Internship: Developed Ph.D. internship between the City of Highland Park and the Department of Geological Sciences, Northwestern University

Established Regional (Great Lakes and Midwest) Consortium of Organic Geochemists

1998: Developed GLAMOR (Great Lakes and Midwest Organic Geochemistry Consortium) with faculty at Michigan State University/Lansing (P. Ostrom and students) to provide a venue for the presentation of graduate and undergraduate research. This consortium includes Ohio State University, University of Michigan, Michigan State University, Northwestern University, Indiana University, Memorial University (Canada), Argonne National Laboratory, and University of Illinois/Chicago and Urbana/Champaign, and Southern Illinois University/Carbondale.

1999: D.J. Hollander and students Hosted 1999 GLAMOR Conference at Northwestern.

Academic/University and Community/Public Service:**Since at University of South Florida (September 2000-Present)****Department, College, and University:**

College of Marine Science

2012 – Present: Eminent Scholars Lecture Series, Chair,
 2012-2013: CMS Paleoceanography Faculty Search Committee, member
 2012-2013: CMS Chemical Oceanography Faculty Search Committee, member
 2011-2012: CMS Paleoceanography Faculty Search Committee, member
 2008- Fisheries Ecology Faculty Search Committee, Member
 2007- Present: CMS Strategic Planning Committee, Member
 2005- Present: CMS Weekly Seminar Committee, Chair
 2003- Present: Honors and Awards Committee, Member
 2003- Present: Graduate Student Recruitment Committee, Member
 2003- Present: Post-Doctoral Fellowship, Ad Hoc Committee, Member
 2001- Present: C.W. Bill Young Fellowship Committee, Chair
 2007-2008: Dean's Ad Hoc Budget Committee, Member
 2005-2007: DAC Chemical Oceanography Faculty Representative
 2006: Presidents Laison Committee, Member
 2004-2005: DAC-Ad Hoc Committee Chair, on "Faculty
 Productivity/CMS Morale"
 2004-2005: CMS Retreat and Post-Retreat Planning Committee
 2004: Post-Doctoral Fellowship Ad-Hoc Committee
 2004: Web Site Improvement Committee, Member,
 2002: Annual Faculty Review Committee, Member

College of Arts and Sciences (CAS):

2000-2001: Environmental Science Program- Chemistry Faculty Search
 Committee Member

University Committee Membership and Activities

2011- USF-St. Petersburg: Town n' Gown Ceremony- Community
 Outreach: Faculty panel to discuss the rapid response of the CMS to
 the BP Deepwater Horizon oil spill, USF-St. Petersburg Campus,
 2010- Keynote Lecture at ResearchOne focusing on the Gulf Oil Spill
 2010- Organizing Committee for the Gulf Oil Spill Conference in 2011
 2004- Present: Presidential Graduate Student Fellowship Committee,
 2002-2005: Faculty Senate Research Council, Member

Provided communication to the business community and general public regarding
 the origin, fate and impact of the Deepwater Horizon oil spill on the Gulf of
 Mexico. As a representative of the CMS and USF, I actively engaged with
 countless numbers of local, regional, national and international media outlets,
 via television, newspapers, magazine and radio interviews, documentary films,
 press releases and public and private lectures. The communications of finding
 to the general public has included local, national and international media

(television, newspaper, film documentary, national magazine and internet), coverage that highlighted the involvement of College of Marine Science-USF academic scientists and the contribution of the Hollander-group specifically. Worldwide coverage included notable outlets such as: The New York Times, The Washington Post, Reuters, AP, BBC, The Jim Lehr News Hour, NPR, Time Magazine, National Geographic, The Nation Magazine, the Smithsonian Museum, CNN, PBS, ABC, CBS and NBC Television (Complete listing the media coverage go to: <http://www.marine.usf.edu/oilspill/>, <http://www.marine.usf.edu/oilspill/news.shtml>).

St. Petersburg Times- List of Top 10 People of Tampa Bay Who Made a Difference in 2010:
 Website URL (<http://www.tampabay.com/news/business/article1141677.ece>)
 Citation as written:
#2 David Hollander, 51, marine geochemist, University of South Florida College of Marine Sciences, St. Petersburg.

“Hollander labored off the radar screen until his summer analysis of the BP oil spill impact on the Gulf of Mexico propelled St. Petersburg's brainiac marine scientists into the mainstream. USF provided the first official confirmation that BP's Deepwater Horizon spill was the source of the undersea oil plumes snaking through the gulf depths. And Hollander was an early critic of a federal report claiming most of the spill was already gone from the gulf. Hollander called the finding ludicrous and later warned the food web for gulf marine life may be imperiled.”

While at Northwestern University (1992-2000)

Department, College, and University:

Department and Program Offices:

- 1996: Coordinator of Weekly Seminar/Speakers Series
- 1996: Geological Sciences Faculty Search Committee
- 1993-1996: Co-Chairperson, Departmental Graduate Admissions Committee
- 1992-1993: Chairperson, Departmental Graduate Admissions Committee

Departmental and Program Committees:

- 1994 -2000: Member-Environmental Science Program Committee
- 1992-2000: Representative of the Geological Sciences to the University-wide Environmental Council.

College of Arts and Sciences (CAS): Committee Membership and Activities

- 1996: CAS Lecturer Promotion Committee
- 1996: CAS Representative in meeting with Visiting Committee
- 1995-1998: Program of African Studies, Working Group on Environment and Society in the Tropical World
- 1994: CAS Representative in Discussion Panel Member for Prospective Undergraduate Applicants and Their Parents.

University Committee Membership and Activities

- 1992-2000: Member- Environmental Council
- 1992-2000: Chairperson- Environmental Council's Global Climate and Environmental Change Working Group.
- 1997-2000: Chairperson: Environmental Council's Post-Doctoral Fellowship selection committee. .
- 1996: Member: Environmental Council's Post-Doctoral Fellowship selection committee.
- 1994: University Trustees Discussion Panel Member; "The Role of the Geological Sciences in Global Climate and Environmental Change Research".
- 1993-1995: Member- Environmental Council Speakers Program

Student Relations

- 1994-Present: Initiated Sedimentary Geology Research Group (w/ Dr. Sageman)

Community/Public Service:

- 2001-Present: Member, City of Gulfport Community Association
- 2000-2001: Member, Pinellas Point, Community Association
- 1993-2000: Member of City of Highland Park's (Illinois) Lakefront Commission:
 The Lakefront Commission is the governmental body in the city that oversees all issues concerning the ravines and lakefront. In this capacity I have used my professional background in the geological sciences to resolve issues of ravine and lakefront erosion (Lake Michigan). I have developed a management program for the 11 miles of ravines in the City of Highland Park and, with the Army Corps of Engineers, proposed a plan to reduce the erosion of the lakefront from Waukegan to Wilmette. The plan has been approved by the Army Corps of Engineers Chicago District and is now in Congress awaiting a funding decision. As a member of the Taskforce, my service also included community outreach and education. In this aspect, I initiated the development of a Ravine and Lake Education Center in association with the Highland Park's School and Park Districts, gave lectures at the Senior Center and at the commission's annual workshops, and developed a brochure for ravine homeowners which won an award from the Lake County Forest Preserve. My responsibilities also extended to representing the commission at public hearings on ordinance changes and at City Council meetings on zoning, Fort Sheridan acquisition, landfill hazards and master plan development. (A more detail summary of my accomplishments on the Lakefront Commission are available upon request).

Newspaper Articles Related to Community Service

- 1996/1997: The Chicago Tribune published two articles and The Highland Park News published one article on the widespread and rapid erosion of the ravines in Highland Park. These articles also

address the strategy the city is adopting to remediate the ravines and reduce the erosion problems.

1996: The Chicago Tribune and The Sun Times published articles on the severity of lakefront erosion and the long-term plan to remediate the problem through a collaborative project involving the Army Corps of Engineers and the North Shore communities.

1996: The Highland Park News published an article on the future development of a “Ravine and Lake Educational/Interpretive Center”, which is a collaborative effort between the Highland Park’s Lakefront Task Force, the Park District, and the School Districts.