

**CURRICULUM VITAE**  
**DAVID J. HOLLANDER**

**Date:**

December 2017

**Personal:**

David Jon Hollander

5136 31<sup>st</sup> Ave. South

Gulfport, FL. 33707

Birthdate: January 30, 1959, New York City, New York

Status: Married Spouse- Alexandra Spengler-Hollander

Son- Jonah Miro Hollander

Languages: Written and Spoken Fluency in German and English

**Research Interests:**

Isotopic Biogeochemistry

Organic Geochemistry

Environmental Chemistry and Petroleum Geochemistry

Oceanography and Limnology

Chemical Ecology

Anthropology-Archeology

**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:**

2017: International Oil Spill Conference: Hot Topics Session: GoMRI Research Invited Presentation, "Comparison of sediment records from the Ixtoc-1 (1979) and DWH (2010) marine oil well blowouts in the Gulf of Mexico", Long Beach, CA, May 2017.

Workshop Chair: Hollander, D.J. (Chair), Burd, A., Chanton, J. Paris, C., Quigg, A., Ziervogel, K., "MOSSFA Workshop: Formation, Sedimentation and Modeling of MOSSFA (Marine Oil Snow Sedimentation and Flocculent Accumulation)", 2017 GoMOSES Conference, New Orleans, LA, February.

GoMRI: Gulf of Mexico Oil Spill and Ecosystem Science Conference; Session co-convener, "Impacts and Recovery of Benthic Marine Environments in the Aftermath of the DWH Event", New Orleans, LA, February 2017.

GoMRI: Gulf of Mexico Oil Spill and Ecosystem Science Conference Session co-convener: "Policy-Relevant Implications of Science Emerging from the *Deepwater Horizon* Disaster", New Orleans, LA, February 2017.

- GoMRI Webinar Presentation, “Generations Apart But of Common Ancestry: Comparative Study of MOSSFA Events During the IXTOC (1979-80) & DWH (2010) Blowouts“, January 18, 2017.
- 2016: Swiss federal Institute of Technology/Zurich (ETH/Zentrum), ETH Visiting Professor Award– Department Earth Sciences (Erdwissenschaft), May – December 2016 (includes 6-months of stipend)
- GoMRI: Gulf of Mexico Oil Spill and Ecosystem Science Conference; Session Chair, “A Tale of Two (Mega) Spills: Comparing DWH and IXTOC-1 Scenarios, Fates and Effects”, Tampa, FL, February 2016.
- GoMRI: Gulf of Mexico Oil Spill and Ecosystem Science Conference; Session Co-Chair: “The Evolution of the Deepwater Horizon Oil Spill: Updates on Fate and Transport of the Oil”, Tampa, FL, February 2016.
- 2015: Marine Oil-Snow Sedimentation and Flocculent Accumulation (MOSSFA) Working Group, GoMRI, Committee Chair.
- GoMRI: Gulf of Mexico Oil Spill and Ecosystem Science Conference; Session Chair, “Improving Tools for Marine Oil Spill Response: Lessons Learned and Applied”, Houston, TX, February 2015.
- 2014: Annual “Umbgrove Lecture” on Anthropogenic Hazards, Department of Earth Sciences, Keynote Lecturer, Utrecht University, The Netherlands.
- GoMRI: Gulf of Mexico Oil Spill and Ecosystem Science Conference; Session Co-Chair, “Integrated understanding of the impacts of the DWH oil spill on fisheries: Exposure vectors, biological-physiological effects and abundance of fisheries populations”.
- 2013: International Meeting of Organic Geochemistry, Plenary lecturer, Tenerife, Spain. Center for Ocean Science Educations Excellence (COSEE) National Meeting, Keynote Lecturer, Tampa, FL.
- 2012: “STEM Catalyst Collaborative Partnership Award” from the ARCS Foundation Tampa Bay Foundations for research in response to the DWH blowout event. Gordon Research Conference on Organic Geochemistry, Session Leader, “Thermogenic Hydrocarbons in the Contemporary Environment”, Holderness School, NH.
- 2011: Smithsonian’s National Museum of Natural History, Keynote Lecturer, Washington, DC.
- Gordon Research Conference on Chemical Oceanography, Keynote Lecturer, Andover School, NH.
- National Science Teachers Association, National Convention, Keynote Lecturer, San Francisco, CA.
- St. Petersburg Times, Top 10 Leaders that made a difference in the Tampa Bay Region 2010: <http://www.tampabay.com/news/business/10-who-made-a-difference-in-2010-on-the-tampa-bay-business-scene/1141677>
- 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 Fellow: First Award.
- 1986-1989: Swiss National Fund Doctoral Fellow.

**Deepwater Horizon Oil Well Blowout Event: Selected Media Coverage of Hollander Laboratory in National News, General Science Publications, Radio, and Television**  
2017:

Cuban Cruise Article, Tampa Bay Times, April 24, 2017

<http://www.tampabay.com/news/environment/water/usf-scientists-headed-for-cuba-to-study-what-it-looks-like-before-any-oil/2321200>

2016:

“*Dispatches from the Gulf*”, Documentary film and new episode in the Journey to Planet Earth Series, Producers by Screenscope Inc., Supported by the Gulf of Mexico Research Initiative

2015:

National Public Radio and Public Radio International: Living on Earth, “*The State of the Gulf, Then and Now*”

<http://loe.org/shows/segments.html?programID=15-P13-00015&segmentID=2>

National Geographic News:

<http://news.nationalgeographic.com/2015/04/150418-gulf-oil-spill-sea-snot-oceans-environment-energy-deepwater-bp/>

Tampa Bay Times: Perspectives Section: 2- Page Overview for 5 Year Anniversary of the Deepwater Horizon Blowout, Editorial and Graphic Illustrations of DWH event, Processes of Sedimentary oil Depositions and Biological Impacts.

Graphics: <http://www.tampabay.com/news/perspective/graphic-the-deepwater-horizon-disaster-five-years-later/2226273>

Op-ed: <http://www.tampabay.com/news/perspective/column-how-to-prevent-another-deepwater-horizon-oil-spill-disaster/2225949>

National Public Radio: WUSF

Florida Matters; 5 - Year Anniversary of DWH.

[http://www.wusf.usf.edu/news/program/florida\\_matters/5\\_years\\_later\\_bp\\_oil\\_spill](http://www.wusf.usf.edu/news/program/florida_matters/5_years_later_bp_oil_spill)

University Beat.

[http://www.wusf.usf.edu/news\\_radio/program/university\\_beat/oil\\_spill\\_anniversary#](http://www.wusf.usf.edu/news_radio/program/university_beat/oil_spill_anniversary#)

USF-College of Marine Science-C-IMAGE: Press Conference April 20, 2010: 5-Year Anniversary of the Deepwater Horizon Oil Well Blowout.

<https://www.youtube.com/watch?v=Htvdry7oP7A>

Tampa Bay Tribune: <http://tbo.com/news/education/bp-oil-spill-put-research-focus-on-gulf-usf-20150420/>

Guy Harvey Magazine, “Living the Queasy Life- So You Want to be a Marine Scientist?”, v. 6/21, pg 44, <http://guyharveymagazine.com/issue/fall-2015/>

2014:

Florida Matters: A Look at the BP Oil Spill 4 Years Later.

[http://www.wusf.usf.edu/news/program/florida\\_matters/episode/2014-04/florida\\_matters\\_a\\_look\\_at\\_the\\_bp\\_oil\\_spill\\_4\\_years\\_late](http://www.wusf.usf.edu/news/program/florida_matters/episode/2014-04/florida_matters_a_look_at_the_bp_oil_spill_4_years_late)

2013:

Physics Today, Down to Earth, *Deepwater Horizon*, three years later, 2 August 2013; <http://scitation.aip.org/content/aip/magazine/physicstoday/news/10.1063/PT.4.2525>

Chemical & Engineering News, After The Deepwater Horizon Disaster Components of the giant oil spill went different places with ecological consequences in the Gulf of Mexico, Volume 91 Issue 22 | pp. 12-17, American Chemical Society, ISSN 0009-2347, June 3, 2013.

<http://cen.acs.org/articles/91/i22/Deepwater-Horizon-Disaster.html>

ScienceMagazine: News and Analyses, 2013, BP Research Dollars Yield Signs of Cautious Hope, [www.sciencemag.org](http://www.sciencemag.org), 8 February 2013 v. 339. Science.

<https://www.sciencemag.org/content/339/6120/636.short?related-urls=yes&legid=sci;339/6120/636>

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

<http://www.nature.com/news/dirty-blizzard-buried-deepwater-horizon-oil-1.12304>

2011:

The Nation Magazine: The Search for BP's Oil, Author: Naomi Klein, January 31, 2011.

Print Article: <http://www.thenation.com/article/157723/search-bps-oil>

Video: <http://www.thenation.com/video/157724/naomi-klein-search-bps-oil>

2010:

St. Petersburg Times- List of Top 10 People of Tampa Bay Who Made a Difference in 2010. <http://www.tampabay.com/news/business/article1141677.ece>

Television: Public Broadcasting Service: Lehr News hour – Video and Transcript.

May 28, 2010: [http://www.pbs.org/newshour/bb/environment-jan-june10-oil3\\_05-28/](http://www.pbs.org/newshour/bb/environment-jan-june10-oil3_05-28/)

National Geographic News: 3 separate articles on Deepwater Horizon Event.

August 6, 2010: <http://news.nationalgeographic.com/news/2010/08/100805-gulf-oil-spill-cement-static-kill-bp-science-environment/>

August 19, 2010: <http://news.nationalgeographic.com/news/2010/08/100818-gulf-oil-spill-seafloor-toxic-science-environment/>

August 20, 2010: <http://news.nationalgeographic.com/news/2010/08/100819-gulf-oil-spill-bp-underwater-plume-science-environment/>

### **Professional Experience**

2016-Present: Full Professor, College of Marine Sciences, University of South Florida, St. Petersburg, Florida

2000-2015: 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 and Environmental 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.

### **Research Support:**

#### **Pending Grant Proposal (2017 still in review)**

DiMarco, S. (Lead), K. Wowk, J. Rooker, D.J. Hollander, E. Habib, NOAA: The Cooperative Institute for Gulf of Mexico Connectivity (CI-GMC), NOAA-OAR-CIPO-2016-2004856, 5-yr 10/1/2017 -10/31/2021, Total Funding Requested: \$34,964,747, D.J. Hollander (PI- USF) with S. Murawski, R. Weisberg and C. Hu: FY 1: \$1,508,739 FY1-5: \$7,545,962, *in review*.

#### **Funded Grant Proposals: Active**

Murawski, S.A. (PI and Center Director) and Hollander, D.J. (Co-PI and Chief Science Officer) with 18 others Partner Institutions, Gulf of Mexico Research Initiative; C-IMAGE III (Center for the Integration, Modeling and Analysis of Gulf Ecosystems); Gulf of Mexico Research Initiative (GoMRI) and the Center for Ocean Leadership (COI), Funded November, 2017 @ \$5,150,000 (Hollander portion \$641,000), January 1, 2018 – December 31, 2019, Active.

Murawski, S.A. (PI and Center Director) and Hollander, D.J. (Co-PI and Chief Science Officer) with 18 others Partner Institutions, Gulf of Mexico Research Initiative; C-IMAGE II (Center for the Integration, Modeling and Analysis of Gulf Ecosystems); Gulf of Mexico Research Initiative (GoMRI) and the Center for Ocean Leadership (COI), Funded November, 2014 @ \$20,480,000 (Hollander portion \$1,754,241), January 1, 2015 – December 31, 2017, No-Cost extension through July 2018, Active.

**Previously Funded Grant Proposal:**

Murawski, S. (PI and Center Director) and Hollander, D.J. (Co-PI and Chief Science Officer), Center for the Integrated Modeling and Analysis of the Gulf Ecosystem C-IMAGE I, Funded by Gulf of Mexico Research Initiative (GoMRI) and the Center for Ocean Leadership (COI) November 2011, \$11,000,000 (Hollander portion is \$854,813), January 1, 2012 – September 17, 2015, No-cost extension through July 2016.

Chassignet, E. with 12 others, including Hollander. D.J., Deep Sea to Coast Connectivity in the Eastern Gulf of Mexico (Deep-C), Funded by Gulf of Mexico Research Initiative (GRI) and the Center for Ocean Leadership (COI) \$22,000,000 (Hollander portion \$743,804), January 1, 2012 – September 17, 2015, No-cost extension through July 2016.

Hollander, D.J., Holocene ice-rafting variability in the North Atlantic, Comer Science and Educational Foundation (CP75- \$60,840), 7/2010 –7/2014.

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- 3/31/2014.

Hollander, D.J., Solar forcing of ice-rafting in the North Atlantic during the Holocene? NSF, Marine Geology and Geophysics (OCE-0961670, \$119,990) and awarded supplemental support in February 2012 (OCE-1258984, \$22,908), 7/2010 – 7/2014.

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.

Hollander. D.J., (w/P. Baker and G. Dwyer- 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.

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.

Hollander, D., Goddard, E. Hallock-Muller, P., Brooks, G., Hastings, D., and 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.

Torres, J., and Hollander, D., "RAPID Deepwater Horizon Oil Spill: Impact of subsurface oil plumes on mesopelagic micronekton", NSF-Rapid Response Funding, \$147,696, 7/10- 7/12.

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.

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.
- 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.
- 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.
- 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.
- Breitbart, M. and Hollander, D.J., Impact of human activity on microbes associated with living stromatolites in Cuatro Ciénegas, Mexico, National Geographic Society, \$20,000, 12/06-5/08.
- 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.
- Hollander, D.J. and Tampa Bay Estuary Program, Tampa Bay Tidal Tributary Habitat Initiative, National Fish and Wildlife Foundation, total \$310,000, Hollander budget of \$30,000, 4/05-10/07.
- 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 \$70,000/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.
- Hollander, D.J., and R. Poore, Coastal Zone Eutrophication and the Mississippi Dead Zone, United States Geological Survey, \$9,000, 6/04-10/06.
- Hollander, D.J. and Peebles, E.B., 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.
- 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.
- Stahl, D.A., D.J. Hollander, and K. Nealson, 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 and Environmental Engineering, McCormick School of Engineering, Northwestern University and the University of Wisconsin-Milwaukee.
- Sageman, B. and D.J. Hollander, Organic Carbon Burial, Anoxia, and Ecologic-Evolutionary Events in the Appalachian Basin During the Late Devonian (Givetian-Framenian), NSF-Earth Sciences: Geology and Paleontology Program, \$160,000, 11/97-11/2001.
- Hollander, D.J., 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.
- Gray, K.A. and D.J. Hollander, Carbon Cycling in a Riparian Wetland of the Des Plaines River, Wetlands Research Inc., \$9,000, 6/97-6/99.



- Hollander, D.J., 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.
- Hollander, D.J., Reconstructing 4<sup>th</sup> 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.
- Sageman, B.B., 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.
- Hollander, D.J., 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.
- Hollander, D.J., Anthropogenic Modification of Organic-Inorganic Carbon Burial Rates in Alkaline Lakes in Wisconsin, United States Geological Survey, \$8,000, 6/98 - 11/98.
- Hollander, D.J., 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).
- Sageman, B.B. 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.
- Fogel, M.L., M.H. Pearl, 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.
- Rittmann, B.E., D.A. Stahl, and D.J. Hollander, Innovative Evaluation Methods for Bioremediation, Illinois Hazardous Waste Research and Information Center, (in collaboration with the Department of Civil and environmental Engineering, McCormick School of Engineering), \$125,000, 6/94-5/96.
- Birchfield G.E. 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.
- Hollander, D.J., Sedimentological, 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.
- Hollander, D.J., J.M. Hayes, L.M. Pratt, S.G. Wakeham, Isotopic Studies of the Biogeochemical Cycle of Carbon: Relationships between pCO<sub>2</sub> and the Abundance of <sup>13</sup>C in Sedimentary Organic Matter, Department of Energy - National Institute for Global Environmental Change (NIGEC), \$70,000, 10/92-9/94.

### **Ship-Time Support**

**Hollander, D.J** C-IMAGE Research Cruise to Cuba, First cooperative US-Cuba research cruise in 60 years in association with University of Havana faculty and students, May 3 – May16, 2017, Cuban Cruise Article, Tampa Bay Times, April 24, 2017  
<http://www.tampabay.com/news/environment/water/usf-scientists-headed-for-cuba-to-study-what-it-looks-like-before-any-oil/2321200>

Hollander, D. (Co-Chief Scientist w/ Murawski, S.), Southern Gulf of Mexico, IXTOC-1, Bay of Campeche, Mexico, R/V Justo Sierra, July 29-August 12, 2015 and 2016, Gulf of Mexico Research Initiative (GoMRI) funded, USF led consortium- Center for the

Integration and Modeling of the Gulf Ecosystem (C-IMAGE), (15 days @ \$15K/day ~ \$300K for each year 2015 and 2016).

Hollander, D. (Chief Scientist) and Murawski, S., Southern Gulf of Mexico, IXTOC-1, Bay of Campeche, Mexico, R/V Justo Sierra, July 29-August 12, 2015 and 2016, Gulf of Mexico Research Initiative (GoMRI) funded, USF led consortium- Center for the Integration and Modeling of the Gulf Ecosystem (C-IMAGE), (15 days @ \$15K/day ~ \$300K for each year 2015 and 2016).

Hollander, D. (Co-Chief Scientist w/ 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 12-30, 2015, August 14 -29, 2014; August 14-30, 2013; August 2-17, 2012 (15 days @ \$9.5K/day ~ \$135K for each year 2012, 2013, 2014, and 2015).

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 10 Million 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 10 Million 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, February 19, 2010 – march 12, 2010 (22 days @\$50K ~\$1.1 Million).

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, 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, 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, August 2002.

### **Geologic, Limnologic and Oceanographic Field Experience:**

2017	Cuba Cruise, north and northwestern Cuba, C-IMAGE (R/V Weatherbird II) Co-Chief scientist (May 2017)
	Northern Gulf of Mexico, C-IMAGE, DWH (R/V Weatherbird)- Co-Chief Scientist
2016	Mexico Land-side Gulf Coastal Survey, Yucatan - Bay of Campeche, Lead Scientist
2015	Southern Gulf of Mexico, Mexico, C-IMAGE II, IXTOC, (R/V Justo Sierra), UNAM, Chief Scientist
	Northern Gulf of Mexico, C-IMAGE, DWH (R/V Weatherbird II)- Chief Scientist



- 2014 Northern Gulf of Mexico, C-IMAGE, DWH (R/V Weatherbird II)- Chief Scientist  
 2013 Northern Gulf of Mexico, C-IMAGE, DWH (R/V Weatherbird II)- Chief Scientist  
 2012 Orca Basin, Gulf of Mexico, Yale Foundation (R/V Pelican), Co-Chief Scientist  
 Northern Gulf of Mexico- BP-10M, DWH (R/V Weatherbird II)- Chief Scientist  
 2011 Northern Gulf of Mexico- BP-10M, DWH (R/V Weatherbird II)- Chief Scientist  
 2010 Northern Gulf of Mexico-USF, DWH Site (R/V Weatherbird II)- Chief Scientist  
 Amazon River Fan, Equatorial Atlantic NSF-Ocean Sci., (R/V Knorr), Co-Chief  
 Scientist  
 2009 Cariaco Basin, Venezuela, Participant  
 2008 Lake Tulane Sediment Coring Expedition, WithUSGS, Chief Scientist  
 2007 Garrison and Fisk Basins, Gulf of Mexico (R/V Pelican), Chief Scientist  
 2006-2010 Desert Pools, Cuatro Ciénegas, Chauhilla, Mexico, Co-PI  
 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, Pinellas County, FL, PI  
 2000-Present: Tampa Bay (R/V Gilbert and other boats), FL, PI  
 1996-1999: Lake Michigan, WI (R/V Neeskay; R/V Lake Guardian), Chief Scientist  
 Lake Mendota, WI, and Trout Lake, WI, PI  
 1996: Orca Basin, Gulf of Mexico (R/V Longhorn), Chief Scientist  
 1994-1995: Sargasso Sea and Gulf Stream Cruise Series, (R/V Cape Hatteras)  
 Devonian Formations, Appalachian Basin, New York  
 1993: Lake Mendota, WI, PI  
 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 Lucerne, Switzerland  
 1986: Urvina Bay, Galapagos Archipelago, Ecuador  
 1982-1984: Cenozoic Basinal Formations, Santa Cruz Mountains, California  
 Monterey Fm., Coastal Southern and Central California

### **Peer Reviewed Publications**

#### **Submitted- In Review**

- 1) Lincoln, S.A., Radović, J.R., Schwing, P.T., Larson, R.A., Jaggi, A., Brooks, G.R., Larter, S.R., Oldenburg, T.B.P., Hollander, D.J., Freeman, K.H. (in review) Legacy of the 1979 Ixtoc oil spill in the southeast Gulf of Mexico sediments: Part 1. Persistent molecular signatures. *Geochimica et Cosmochimica Acta*.
- 2) Schwing P., Jeffrey P. Chanton, Isabel C. Romero, David J. Hollander, Ethan A. Goddard, Gregg R. Brooks, Rebekka A. Larson. (in review) Tracing the Incorporation of Petroleum Carbon into Benthic Foraminiferal Calcite Following the Deepwater Horizon Event. *Environmental Pollution*.
- 3) Schwing, P.T., O'Malley, B.J., Hollander, D.J., (in review) Recovery of Benthic Foraminifera in the Northern Gulf of Mexico Following the Deepwater Horizon Event (2011-2015). *PLOSone*.
- 4) Larson, R.A., Brooks, G.R., Schwing, P.T., Carter, S., (in review) High Resolution Investigation of Event-Driven Sedimentation: Northeastern Gulf of Mexico. *In: Geosciences, Methods and Applications of High-Resolution Stratigraphy on Continental Margins*.

- 5) Lai, L., Fonzo, O., Beckett, J.F., Tykot, R.H., O'Connell, T., Goddard, E., and Hollander, D.J., (in review) Economic transitions in Western Mediterranean Copper Age: the contribution of stable isotopes to investigate Bell Beaker diet and livestock management in Sardinia, *Journal of Anthropological Archeology*.
- 6) Radović, J., P. Schwing, Re.C. Silva, A. Jaggi, R.A. Larson, G. Brooks, D. Hollander, S.R. Larter, T.B.P. Oldenburg, (in review) Multiproxy geochemical stratigraphy of DeSoto Canyon sediment core four years after the Deepwater Horizon oil spill, *Marine Pollution Bulletin*
- 7) Ostroff, J.L., Peebles, E.B. and Hollander, D.J., (in review) Isotopic relationships between eye-lens layers and other tissues in Tilefish (*Lopholatilus chamaeleonticeps*), as applied to reconstructing geographic and trophic histories, *Journal of Fish Biology*
- 8) Overholt, Will A., Patrick Schwing, David Hastings, David J. Hollander, Joel E. Kostka (in review), Biogeographic Patterns in Benthic Microbial Communities throughout the Gulf of Mexico, *Applied Microbiology*.
- 9) Sun, X., L. Chu, E. Mercado, RC Prince, Romero, I., D. Hollander, and JE Kostka, (in review), Dispersant enhances hydrocarbon degradation and alters the structure of metabolically active microbial communities in shallow seawater from the northeastern Gulf of Mexico, *Environmental Science and Technology*.

#### **In Press/Accepted:**

96. Puslter, E., G. Johnson, D. Hollander, J. McCluskey, R. Harbison, (in press) Exposure assessment of ambient sulfur dioxide downwind of an oil refinery in Curaçao, *International Journal of Environmental Pollution*

#### **Published:**

95. Schwing, P.T., O'Malley, B.J., Hollander, D.J. 2018, Resilience of Benthic Foraminifera in the Northern Gulf of Mexico Following the Deepwater Horizon Event (2011-2015). *Ecological Indicators* 84, 753-764, <http://dx.doi.org/10.1016/j.ecolind.2017.09.044>.
95. Schwing, P.T., Brooks, G.R., Larson, R.A., O'Malley, B.J., Hollander, D.J. (2017). Constraining the spatial extent of the Marine Oil Snow Sedimentation and Accumulation (MOSSFA) following the DWH event using a <sup>210</sup>Pb<sub>xs</sub> inventory approach. *Environmental Science & Technology*, 51, 5962–5968. DOI: 10.1021/acs.est.7b00450.
94. Ainsworth, Cameron; Paris, Claire; Perlin, Natalie; Dornberger, Lindsey; Patterson, William; Chancellor, Emily; Murawski, Steven; Hollander, David; Daly, Kendra; Romero, Isabel; Coleman, Felicia; Perryman, Holly (2017), Ecosystem Impacts of the Deepwater Horizon oil spill. PLOsOne.
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### **Non Peer-Reviewed Publications**

#### **Manuscripts, Short-Courses and Reports**

- 2013: Hollander, D.J., Passow, U., Chanton, J., and Daly, K., Marine Oil Snow Working Group Workshop Report, October 22-23, 2013 Tallahassee, FL, <http://deep-c.org/mossfa>.
- 2009: Short, R.T., Byrne, R.H., Hollander, D.J., Schijf, J., Toler, S.K., and VanVleet, E.S., 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.
- 2008: Ourback, T., DeLong, K., Corregge, T., Malaize, B., Kilbourne, H., Caquineau, S., and Hollander, D., The significance of geochemical proxies in corals, does size (age) matter?, *Proceedings of the 11th International Coral Reef Symposium, Ft. Lauderdale, FL*, p. 82-86.
- 2006: 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 - (paper copy 27p.), <http://pubs.usgs.gov/of/2005/2006>.
- 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:**

- 2017: Hollander et al., International Oil Spill Conference (IOSC) Hot Topics Session: GoMRI Research, Invited presentation, "Comparison of sediment records from the Ixtoc-1 (1979) and DWH (2010) marine oil well blowouts in the Gulf of Mexico", Long Beach, CA, May.
- 2017: Hollander, D.J and J. Chanton, 2017 MOSSFA Workshop, *Déjà vu al over again: Comparative study of MOSSFA events during the DWH (2010) and Ixtoc (1979) oil spills*", 2017 GoMOSES Conference, New Orleans, LA, February.
- 2016: Hollander, D.J., SeaGrant Workshop: Where did the oil go? NOAA-ORR's Gulf of Mexico Disaster Response Center, "*Marine Oil Snow Sedimentation & Flocculent Accumulation MOSSFA Events—The Rule or the Exception to the Rule? Comparative Analysis of the Deepwater Horizon & IXTOC-1 Blowouts*", Mobile AL, April.
- 2014: Passow, U., J. Chanton, K. Daly and D.J. Hollander, Marine Oil Snow Sedimentation & Flocculent Accumulation, MOSSFA Town Hall meeting, GoMRI.
- 2014: Industry Technical Advisory Committee (ITAC), New Orleans, LA, September.
- 2013: MOSSFA Working Group, Technical Meeting, GoMRI, Tallahassee, FL, October.
- 2013: API-D3/GoMRI Science Meeting Safety Harbor, FL, June.
- 2013: Center for Ocean Science Educations Excellence (COSEE) National Meeting, Invited Presentation on the "Sedimentary oil deposition and long-term ecosystem impacts in the aftermath of the Deepwater Horizon blowout", Tampa, May.
- 2013: Oil Spill Dispersant Research Workshop, Baton Rouge, LA, February.
- 2011: Hollander, D.J., B. Flower, D. Naar, R. Weisberg, K. Daly, I. Romero, and 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: 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 DC, 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.

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, (Co-organizer: P. Van Cappellen).

1996: Army Corp of Engineers, Chicago District, Technical Review Committee: Sediment transport and slope stability for Lakefront Erosion Study, Lake Michigan: Interim IV (Waukegan to Wilmette), Program Manager: Philip Bernstein.

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:**

#### **2018**

GoMRI 2018 (14 abstracts), New Orleans, LA, February 2018

Ocean Science Meeting (3 Abstracts), Portland OR, February 2019

#### **2017**

Hall, G., Reddy, C., Hollander, D.J., What is going on here? Newly Appreciated Weathering Mechanisms in Macondo Well Oil, CRC-CARE (Cooperative Research Center for Contamination Assessment and Remediation of the Environment) CleanUp Conference, Melbourne, Australia, September 2017

Peebles E.B., Hollander, D., Lifetime Changes in Trophic Level, As Determined from Compound-Specific Amino Acid Analysis of  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  within Isolated Eye-Lens Layers, Annual Meeting of the American Fisheries Society. Tampa, FL, August 2017.

Peebles E. and Hollander, D.J., Fish-Based Isoscapes for Continental-Shelf Waters of the Entire Gulf of Mexico, Annual Meeting of the American Fisheries Society. Tampa, FL, August 2017.

Peebles E.B., Hollander, D.J., Consistent Trophic Ontogenies Among Local Populations Despite Geographic Heterogeneity in Diets, Annual Meeting of the American Fisheries Society. Tampa, FL, August 2017.

Sun, X., Chu, C., Romero, I., Hollander, D.J., and Kostka, J.E., Impact of dispersant on hydrocarbon biodegradation in coastal seawater, Gordon Research Conference on Applied Environmental Microbiology, Mount Holyoke College, South Hadley, MA, July 2017.

Hastings, D.W., P.T. Schwing, T. R. Bartlett, G. Brooks, B. E. Carr, J. Kostka, R.A. Larson, K. A. Quinn, W. Overholt, D.J. Hollander, Changes in the Redox State of Sediments Following the 2010 BP Blowout, Gordon Conference in Chemical Oceanography, July 24-27, 2017.

Hollander, D.J., G. Brooks, J. Chanton, D. Hastings, J. Kostka, R. Larson, I. Romero, P. Schwing, K. Daly, E. Escobar-Briones, E. Foekema, K. Freeman, A. Gracia, C. Hu, S. Lincoln, M. Machain-Castillo, P. Montagna, T. Murk, T. Oldenburg, J. Radovic, C. Reddy, C. Ruiz-Fernández, J. Sánchez-Cabeza, S. Sun, W. Tunnell, S. Vonk,. Comparison of sediment records from the Ixtoc-1 (1979) and DWH (2010) marine oil

- well blowouts in the Gulf of Mexico, Invited Presentation, International Oil Spill Conference (IOSC), Long Beach, CA, May 2017.
- Romero I.R., Sutton T., Quintana-Rizzo E., Ross S.W., Torres J. J., Hollander D.J. Long-term study of Polycyclic Aromatic Hydrocarbons in deep-water fish species in the Northern Gulf of Mexico reveals exposure to Deepwater Horizon oil. In Aquatic Sciences Meeting. Honolulu, HI, March 2017.
- Hastings, D. , T. Bartlett, G. Brooks, B. Carr, R. Larson, K. Quinn, D. Rationale, I. Romero, P. Schwing, D. Hollander. Changing Sedimentary Redox Conditions Following Deepwater Horizon Blowout and IXTOC-I events: Geochemical and Ecological Implications. In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Sanchez-Cabeza, J., A. Ruiz-Fernández, G. R. Brooks, R. Larson, P. T. Schwing, D. J. Hollander, M. Díaz-Asencio, J. Corcho-Alvarado, M. Machain-Castillo, A. Gracia. A Comparison and Validation of <sup>210</sup>Pb Chronologies of Deep Sediment Cores from the Southern Gulf of Mexico. In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Fridrik, E., P. Schwing, R. Larson, G. Brooks, D. Hollander, S. Lincoln, W. Overholt. Planktic Foraminiferal Records of MOSSFA and Petrocarbon Incorporation Following the Ixtoc-1 and DWH Blowouts. In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- O'Malley, B.J., P. T. Schwing, I. C. Romero, D. W. Hastings, D. J. Hollander. Utilizing the Foraminiferal Index of Environmental Impact to assess benthic impacts and recovery following the Deepwater Horizon Oil Spill. In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Overholt, W.A., P. Schwing, D. J. Hollander, J. E. Kostka (2017). Predicting Benthic Microbial Communities Throughout the Gulf of Mexico and Hindcasting Impacts from the DWH. In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Hollander, D.J., I. C. Romero, P. Schwing, G. Brooks, R. Larson, D. Hastings, J. Kostka, J. Chanton, A. Gracia, M. Machain, Reappraisal of the Use of Traditional Response Strategies for Surfacing Oil in Light of the MOSSFA Phenomena- Implication for Policy Change. In Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Bosman, S., J. Chanton, D. Hollander, P. Schwing, I. Romero, E. Goddard, A. Gracia, E. Escobar, B. E. Rosenheim (2017). <sup>13</sup>C and <sup>14</sup>C isotopic distributions in sediment and suspended particulates in the southern Gulf of Mexico. In Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Romero I.C., A. Diercks, K.L. Daly, J. Chanton, D.J. Hollander. Distribution of Deposited Petroleum Hydrocarbons after the Deepwater Horizon Oil Spill. In Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Barnett, B.K., W.F. Patterson III, J. Chanton, D. Hollander, I. Romero, E. Goddard, and J. Tarnecki. In Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Overholt W., E. Mercado, X. Sun, I.C. Romero, D.J. Hollander, K. Konstantinidis, M. Huettel, and J.E. Kostka. Microbial processes in a simulated beach impacted with weathered oil. In Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Machain-Castillo, M. L., Gracia, A., Ruiz-Fernández, A.C., Sanchez-Cabeza, J.A, Rodríguez-Ramírez, A., Alexander-Valdés, H, Nava-Fernández, X.A, Gómez-Lizárraga, L. E, Schwing, P.T., Hollander, D.J., Romero, I.C. Assessing the role of benthic foraminifera as indicators of the benthic ecosystem health and evolution after



- the IXTOC-I Oil Spill (Southern Gulf of Mexico). In Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Ruiz Fernandez, A., L. Perez-Bernal, P. Lopez Medoza, J. Sanchez-Cabeza, M. Machain Castillo, P. Schwing, D. HGastings, A. Gracia-Casca, D.J. Hollander. Trace elements fluxes in sediment cores from the Gulf of Mexico and their relationship with the IXTOC Oil Spill. In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Bartlett T.R., I. C. Romero, N. H. Zenzola, B. E.Carr, E. A. Goddard, G. Ellis, D. J. Hollander Hydrocarbon Sources in Sedimentary Environments Impacted by Oil Spills at Depth: Chemical Signature of the Ixtoc-1 Spill. ). . In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Carr B., Pulster E., Romero I.C., Bartlett T.R., Hollander D., Murawski S. Comparison of Using ASE and QuEChErs Methods for Extracting PAHs from Fish Liver and Muscle. . In: Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA: February 2017.
- Hollander, D. J. “Generations Apart But of Common Ancestry: Comparative Study of MOSSFA Events During the IXTOC (1979-80) & DWH (2010) Blowouts“, GoMRI Webinar Presentation, January 18, 2017.

## **2016**

- Wallace, A., E.B. Peebles, D.J. Hollander, S.A. Murawski, J.E. Granneman, J.L. Ostroff, G.S. Ellis, New forensic methods for describing the histories of fish. At: Florida Restore Act Center of Excellence Program meeting, October 27-28, 2016, St. Pete Beach, FL (2<sup>nd</sup> place, poster competition).
- Tzadik, O., J. Curtis, J. Granneman, B. Kurth, T. Pusack, A. Wallace, D. Hollander, E. Peebles, C. Stallings. Chemical archives in fishes beyond otoliths: A review on the use of other body parts as chronological recorders of chemical constituents. ICES Annual Science Conference, Riga, Latvia, September 19-23, 2016.
- Hollander, D.J., Machain-Castillo, M.L., Gracia, A., H.A. Alexander-Valdés, G.R. Brooks, J. Chanton, E. Escobar-Briscon, D.W. Hastings, J. Kostka,, R.A. Larson, I.C. Romero, A.C. Ruiz-Fernández, J.A. Sánchez-Cabeza, P.T. Schwing, Are Traditional Oil-Spill Response Strategies Controlling Marine Oil Snow Sedimentation and Flocculent Accumulation (MOSSFA) Events?: A Comparative Study of the IXTOC (1979-80) and Deepwater Horizon (2010) Oil-Well Blowouts, In 2<sup>nd</sup> Hamburg Symposium on Deep-Sea Oil Spills, Hamburg, Germany, September 20, 2016.
- Schwing, P.T., Brooks, G.R., Larson, R.A., Holmes, C.W., O’Malley, B.J. Hollander, D.J. Constraining the spatial extent of the Marine Oil Snow Sedimentation and Accumulation (MOSSFA) following the Deepwater Horizon event using a 210Pb inventory approach. In 2<sup>nd</sup> Hamburg Symposium on Deep-Sea Oil Spills, Hamburg, Germany, September 20, 2016.
- Romero I.C., Murawski S., Daly K.L., Chanton J., Hollander D.J., The chemical signature of MOSSFA on the seafloor of the Northern Gulf of Mexico. In 2<sup>nd</sup> Hamburg Symposium on Deep-Sea Oil Spills, Hamburg, Germany, September 20, 2016.
- Overholt, W. A., Carlson, K., Schwing, P., Hollander, D. J., & Kostka, J. E., A predictive understanding of deepsea benthic microbial communities in the Gulf of Mexico. In: 16th International Symposium on Microbial Ecology. Montreal, Canada: August 21-26, 2016.
- Chanton, J.P.; Patterson, W.; Passow, U.; Hollander, D. Bosman, S.; Rogers, K.; Montoya, J.; Barnett, B. Tracers in the Gulf: Tracking the petrocarbon released from oil spills in the Gulf of Mexico with natural abundance radiocarbon. Oral

- Presentation. American Society of Limnology and Oceanography, Summer Meeting, Santa Fe, NM, June 5-10, 2016.
- Barnett, B.; Patterson, W.; Chanton, J.; Hollander, D.; Romero, R.; Goddard, E.; Tarnecki, J. Stable and radio isotopes reveal food web impacts of the Deepwater Horizon Oil Spill in the northern Gulf of Mexico. Oral Presentation. 10th International Conference on the Applications of Stable Isotopes to Ecological Studies, Tokyo, Japan, April 3-8, 2016.
- Hollander, D.J. A. Gracia, S.A. Murawski, M.-L. Machain, P. Schwing, E. Escobar-Briones, I.R. Romero, H. Alexander-Valdes, G. Brooks, E. Chancellor, J. Chanton, K. Freeman, D. Hastings, C. Hu, A. Jaggi, J. Kostka, S. Lincoln, P. Montanga, T. Oldenburg, E. Peebles, D. Portnoy, E. Pulster, W. Overholt, J. Radovic, A.C. Ruiz-Fernandez, J.A., Sanchez-Cabeza, S. Synder, W. Tunnell, A. Wallace, D. Yoskowitz, Can lessons learned from the 1979 IXTOC-1 Oil Spill (SGoM) Foretell the Recovery Time and Long Term Ecologic Consequences of the 2010 DWH Oil Spill (NGoM)?, In: Gulf of Mexico Oil Spill & Ecosystem Science Conference 2016. Tampa, FL: 02/01/16-02/04/16.
- Brooks, G. R., Larson, R. A., Schwing, P. T., Kalin, R., Clark, N., Heckman, J., Hollander, D.J. Monthly Scale Resolution of Sedimentary Processes Using  $^{234}\text{Th}$  Inventories and MAR: Lessons from the 2010 DwH Event. In: Ocean Sciences Meeting 2016. New Orleans, LA: 02/21/16-02/26/16.
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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  $\text{CO}_2$  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 100<sup>th</sup> Annual Meeting, v. 20, no. 7, Denver, CO, 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- $\text{CO}_2$  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, CA, 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, CA, June 1984.

### **University and Institutional Seminars (All Invited Talks):**

#### **2017**

University of Florida, "*The Legacy of the Deepwater Horizon Blowout: New Science, New Paradigms and New Policy for the New Breed of Oil Spills*", Gainesville, FL, Host: Mark Brenner and Tom Bianchi, September 2017

National Association of Biology Teachers (NABT/BSCS), Florida AP Biology Teacher Academy, “*Ecological Impacts of the Deepwater Horizon and IXTOC-I Marine Blowouts*” Saints Stephen’s Repertory School, Bradenton, FL, Invited Lecture - Host: Chi Tran-Klein, June 2017.

International Oil Spill Conference, “*Comparison of sediment records from the Ixtoc-I (1979) and DWH (2010) marine oil well blowouts in the Gulf of Mexico*”, GoMRI – Hot Topics Invited Presentation, Long Beach, CA, Host: Chuck Wilson, Long Beach, CA, May 2017.

## **2016**

University of Geneva, Department of Earth Sciences, “*A Tale of Two Spills: A Comparative Study of the DWH and IXTOC Oil Well Blowouts*”, Geneva Switzerland, Host: Daniel Ariztequi, December 2016.

University of Bern, Institute of Geological Sciences and Oeschger Centre for Climate Change Research, “*Marine Oil Snow Sedimentation (MOSSFA) Events are the Rule not the Exception: Comparative Analyses of the IXTOC (1979-1980; Mexico) and Deepwater Horizon (2010; USA) Oil Well Blowouts*”, Bern Switzerland, Host: Flavio Ansellmetti, November 2016.

EAWAG- Kastanienbaum (Swiss Federal Institute of Aquatic Science and Technology), Department of Surface Water & Management, “*Sub-Surface Oil Plumes, Sedimentary Oil Deposition and Other Unexpected Consequences in the Aftermath of the Deepwater Horizon Oil-Well Blowout*”, Luzern, Switzerland, Host: Bernhard Wehrli, November 2016.

World Bank, “*The Legacy of the Deepwater Horizon Disaster: New Science, New Paradigmes and New Policies for a New Breed of Oil-Spills*” Geneva, Switzerland, October 2016.

Swiss Federal Institute of Technology- Department of Earth Sciences (ETH-ERDW), “*Sub-Surface Oil Plumes, Sedimentary Oil Deposition and Other Unexpected Consequences in the Aftermath of the Deepwater Horizon Oil-Well Blowout*”, Zürich, Switzerland, Host: Timothy Eglinton, September 2016.

Universidad Nacional Autonoma Mexico, Mazatlan, (Hollander D.J and Schwing, P.), “*A Tale of Two Oil Spills: Comparative Sedimentary Analysis of Deepwater Horizon (2010) and Ixtoc (1979)*”, Mazatlan, Mexico, Hosts: A.C. Ruiz-Fernández, J.A. Sánchez-Cabeza, August 2016.

Guest Professor Introduction Lecture Series: Swiss Federal Institute of Technology (ETH-Eidgenoschen Technische Hochschule), “*The Legacy of the Deepwater Horizon Disaster: New Science, New Paradigmes and New Policy for a New Breed of Oil-Spills*”, Zürich, Host: Timothy Eglinton, Switzerland, May 2016.

## **2015:**

“Pint of Science” Lecture Series, Southern Brewing and Wine Making, Tampa, FL, Public lecture “Lessons from the Deepwater Horizon- 5 years Hence”, Host: Adam Mailoux and Kim Luddy, May 2015. <http://pintofscience.us/event/sinkholes-and-oil-spills/>

League of Woman’s Voters: Hillsborough County, Tampa, Lecture and Discussion- Gulf Studies on the Long-Term Effects and Policy/Political Ramifications of the 2010 Deepwater Horizon Oil Spill, Host: Sandra Sroka, April 2015.

Environmental Film Festival, Eckerd College, St. Petersburg: Introduction Lecture and Discussion, Host: Catherine Griggs, February 2015.

National Ocean Science Bowl- State High School Science Competition, Keynote Lecture, St. Petersburg, FL, Host: Teresa Greely, February 2015.

College of Marine Science Seminar Series, University of South Florida: “Getting that Sinking Feeling: Understanding the sedimentary fate of Deepwater Horizon oil”, January, 2015. <https://www.youtube.com/watch?v=uqvvG5SbrN4>



**2014:**

Public lecture and Discussion Panel on Deepwater Horizon Oil Spill, BLUE Ocean Film Festival, St. Petersburg, FL, December 2014.

Royal Dutch Shell, E&P (Exploration and Production) and the Innovation and Research Development Groups, Rijswijk/Den Hauge, The Netherlands, Host: E. Ediz, November 2014.

Umbgrove Lecture Series on Anthropogenic Hazards, Department of Earth Sciences, Utrecht University, The Netherlands, Host: F. Pieters, October 2014.

Fulbright Visiting Scholars Enrichment Seminar- USF World Partnership, University of South Florida, 76 Fulbright Scholars from 44 countries, St. Petersburg, FL. Host: , September 2014.

Graduate Student Symposium for GoMRI, Senior Mentor Program, Florida State University, Tallahassee, FL, Host: E. Chassignet, September 2014.

Harte Research Institute of the Gulf of Mexico, TAMU- Corpus Christi, TX, Host: Paul Montagna, January 2014.

**2013:**

Instituto de Ciencias del Mar y Limnologia, UNAM (Universidad Nacional Autonoma de Mexico, Mexico City, MX, Host: Elva Escobar-Briones, December 2013.

Department of Earth and Atmospheric Sciences and Biology, Georgia Tech, Host: Joel Kostka, November 2013.

Geologisches Institute, Swiss Federal Institute of Technology, (ETH- Zentrum), Zürich, CH, Host: Timothy Eglinton, September 2013.

Department of Marine Organic Biogeochemistry, Netherlands Institute of Sea Research (NIOZ), Texel, The Netherlands, Host: Jaap Sinnighe-Damste, September 2013.

Department of Environmental Engineering, Wageningen University, Wageningen, The Netherlands, Host: Tinka Murk, September 2013.

1<sup>st</sup> Hamburg Symposium on Deep-Sea Oil Spills, Technical University Hamburg-Harburg (TUHH), Germany, September 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, and 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, April 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, April 2011.

National Science Teachers Association national convention, COSSEE Network Luncheon Seminar, Host: Leisl Hotaling and G. Scowcroft, San Francisco, CA, March 2011.

Saints Stephen's Repertory School, Bradenton, FL, Lecture in Marine Biology Class- Host: Chi Tran-Klein, February 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, FL, January 2011.

### **2010**

Whitney Laboratory of Marine Biosciences, University of Florida, St. Augustine, FL, Host: B. Batelle, November 2010.

Sierra Club- Gulf of Mexico Oil Spill: Public Forum, Host: P. Compton, St. Petersburg, FL, November 2010.

ResearchOne-USF, Keynote Lecture, Deepwater Horizon oil disaster - its effects and USF's role in the crisis, Symposium highlighting university science and innovation, November 2010.

Tampa Bay Partnership, 3 CMS faculty lectures on the state of the Gulf oil spill, St. Petersburg, August 2010.

### **2007**

Mote Marine Laboratory, Sarasota FL., Coordinator: Glenn Shin, September 2007.

Large lakes Observatory, University of Minnesota, Duluth, MN, Host: J. Werne, E. Brown, November 2007.

### **2006**

Departments of Civil and Environmental Engineering and Environmental Science and Policy, ERIC Seminar Series, USF-Tampa, FL, Host: D. Yeh, September 2006.

### **2005**

Climate Change Institute, University of Maine, Orono, ME, Host: K. Maasch, G. Denton, September 2005.

### **2004**

Department of Biological Sciences, University of South Florida/Tampa, FL, Host: K.T. Scott, May 2004.

### **2003**

Department of Geological Sciences, University of Florida, Gainesville, FL, Host: Mark Brenner and Jim Channel, November 2003.

Department of Geology, University of South Florida, Tampa, FL, Host: Peter Harries, October 2003.

### **2002**

Department of Geological Sciences, Brown University, Host: Profs. Tom Webb and Yongsong Huang, October 2002.

College of Marine Science, University of South Florida, St. Petersburg, FL, May 2002.

Marine Sciences Research Center, State University of New York/Stony Brook, Host: Profs. Mary Scranton and Gordon Taylor, March 2002.

Department of Geology, University of South Florida, Tampa, FL, Host: Prof. Peter Harries, February 2002.

### **2000**

College of Marine Sciences, University of South Florida, St. Petersburg, FL, November 2000.

Geophysical Laboratories, Carnegie Institution of Washington, Washington, DC, Host: Dr. George Cody, May 2000.

Netherlands Institute of Sea Research (NIOZ), Texel, The Netherlands, Host: Prof. Jaap Sinnighe Damsté, April 2000.

**1999**

Department of Geological Sciences, University of Michigan, Host: Prof. Phil Meyers, October 1999.

University of Chicago, Geochemistry and Geophysics Seminar, Chicago, IL, Host: Prof. David Archer, September 1999.

Department of Geology and Fuel Resources, University of New Castle upon Tyne, England, Host: Prof. P. Farrimond, June 1999.

Department of Geological Sciences, University of Cincinnati, OH, Host: Prof. Tom Algeo, April 1999.

**1998**

Brushy Canyon Oil Company Consortium, Washington Ranch, Guadeloupe Mountains, NM, Host: Prof. J. Gardner, March 1998.

**1997**

Department of Civil Engineering, McCormick School of Engineering, Northwestern University, Evanston, IL, Host: Prof. Barbara Ann Lewis, December 1997.

Department of Geology, University of Iowa, Iowa City, IA, Host: Dr. Greg Ludvigson, September 1997.

Department of Geological Sciences, University of Missouri, Columbia, MO, Host: Prof. Timothy Lyons, May 1997.

**1996**

College of Marine Studies, University of Delaware, Lewes, DE, Host: Profs. David Kirchman and John Sharp, February 1996.

**1995**

Department of Earth Sciences, Dartmouth College, Hanover, NH, Host: Prof. C. Page Chamberlin, November 1995.

Center for Great Lakes Research, University of Wisconsin, Milwaukee, WI, Host: Prof. Russel Cuhel, September 1995.

Geologisches Institut, Swiss Federal Institute of Technology, ETH-Zurich, Zurich, Switzerland, Host: Prof. Judith A. McKenzie, August 1995.

The Graduate School, Northern Illinois University/DeKalb, IL, Host: Prof. J.L. Walker, May 1995.

University of Chicago, Geochemistry and Geophysics Seminar, Host: Prof. Bob Newton, April 1995.

Shell Research BV, Shell Exploration and Production Laboratory, Rijswijk, The Netherlands, Host: Dr. Wickert Visser, February 1995.

**1994**

Department of Marine Sciences, University of South Florida, St. Petersburg, FL, Host: Prof. John Compton, December 1994.

Department of Geological Sciences, University of Illinois/Urbana-Champaign, IL, Host: Prof. Tom Anderson, November 1994.

Department of Civil and Environmental Engineering, McCormick School of Engineering, Northwestern University, Evanston, IL, Host: Prof. Barbara Ann Lewis September 1994.

**1993**

Department of Geology, University of Bergen, Bergen, Norway, Host: Prof. Michael Talbot, July 1993.

Department of Geology, University of South Carolina, Columbia, SC, Host: Prof. Douglas Williams, May 1993.

Skidaway Institute of Oceanography, Savannah, GA, Host: Prof. Stuart Wakeham, March 1993.

## **1992**

Department of Geology, Limnological Research Center, University of Minnesota, Minneapolis, MN, Host: Prof. Kerry Kelts, September 1992.

Lake Research Station, University of Wisconsin, Madison, WI, Host: Prof. Karl Bowser, June 1992.

CO<sub>2</sub> Research Division, Scripps Institution of Oceanography, University of California/San Diego, La Jolla, CA, Host: Prof. C. D. Keeling, April 1992.

Department of Geological Sciences, University of Illinois/Chicago, Chicago, IL, Host: Prof. Carol Stein, March 1992.

## **1991**

Earth Science Board and Institute of Marine Studies, University of California/Santa Cruz, Santa Cruz, CA, Host Prof. Robert E. Garrison, October 1991.

Department of Geological Sciences, Stanford University, Stanford, CA, Host: Prof. Simon Brassell, October 1991.

School of Oceanography, Washington State University, Seattle, WA, Host: Prof. Steve Emerson, September 1991.

College of Oceanography, Oregon State University, Corvallis, OR, Host: Prof. Fred Pahl, September 1991.

Scripps Institution of Oceanography, University of California/San Diego, La Jolla, CA, Host: Prof. Miriam Kastner, September 1991.

Department of Geology and Geophysics, Yale University, New Haven, CT, Host: Prof. Robert Berner, March 1991.

## **1990**

Centre des Faibles Radioactivites, CNRS-CEA, Gif Sur Yvette, France, Host: Prof. Claude Duplessey, October 1990.

Laboratoire des Isotopes Stables, University of Pierre and Marie Curie, Paris VI, Host: Prof. Andre Mariotti, September 1990.

Kernforschungsanlage (KFA), Jülich, Germany, Host: Prof. Detlev Leythausen, July 1990.

Biogeochemical Laboratories, Indiana University, Bloomington, IN, Host: Prof. John Hayes, June 1990.

Department of Geological Sciences, Princeton University, Princeton, NJ, Host: Prof. Gerta Keller, June 1990.

Board of Earth Sciences and Department of Marine Sciences, University of California/Santa Cruz, CA, Host: Profs. Bob Garrison and Ken Bruland, May 1990.

## **Teaching and Advising**

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

Isotopic Biogeochemistry  
Organic Geochemistry  
Sedimentary Geochemistry and Chemical Sedimentology  
Petroleum Geochemistry and Environmental Chemistry  
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)**

Chemical Oceanography: Taught annually 2017 (coordinator), 2016, 2014-2000  
Stable Isotopes In Marine Science, 2015, 2013, 2010, 2008, 2006, 2004, 2002,  
Deepwater Horizon: The whole story: 2011

Geology of the Gulf of Mexico: 2010  
 Organic Geochemistry: 2009  
 Sedimentary Geochemistry, 2003  
 Field Methods in Biogeochemistry, 2008, 2006, 2003, 2001

**Northwestern University (September 1992 - August 2000)**

The Atmosphere, The Ocean, and Our Climate; 1999, 1997, 1996, 1995, 1993  
 Environmental Biogeochemistry, 1994  
 Sedimentary Geochemistry, 2000, 1999, 1997, 1996, 1995, 1994, 1993  
 Sedimentary Geology, 1999, 1996, 1993, 1992  
 Stable Isotope Geochemistry, 1999, 1997, 1995  
 Advanced Topics in Sedimentary Geolog, 1998, 1996  
 IGERT (Integrated Graduate Education and Research Training program), NSF  
 Funded training program linking Departments of Civil  
 Engineering/Environmental Engineering, Chemistry, and Geological  
 Sciences, 2000, 1998, 1996, 1998, 2000

**POST-GRADUATE, GRADUATE AND UNDERGRADUATE ADVISING:**

University of South Florida, College of Marine Science and Northwestern University.

**Research Associates**

Dr. Isabel Romero, 2016-Present, GoMR C-IMAGE and Deepend, funded.

Dr. Patrick Schwing, 2016-Present, GoMRI C-IMAGE funded.

**Post-Doctoral Fellows (Supervisor),**

Dr. Isabel Romero, 2011-2016, GRI C-IMAGE funded.

Dr. Greg Ellis, 2012-2016, NSF-P2C2 funded.

Dr. Patrick Schwing, 2012-2016, GRI C-IMAGE and Deep-C funded.

Dr. M. Alfonso-Garcia, 2012-2014, Comer Foundation, NSF-MG&G Funded.

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

Dr. Usha Rao, 1997-1999, Northwestern University's Environmental Council Post-Doctoral Fellowship.

Dr. Charles A. Ver Straeten, 1995-1997, Northwestern University's Environmental Council Post-Doctoral Fellowship, Co-supervisor: B. Sageman (Geological Sciences).

Dr. Eric Seagren 1994-1996, Illinois Hazardous Waste Research and Information Center funded fellowship, Co-Supervisor: Bruce Rittmann (Civil Engineering-Environmental Engineering).

Dr. Barbara MacGregor, 1995-1999, NSF-Ecology funded project "Molecular Measures of Microbial Community Structure in Relationship to Sediment Biogeochemistry" Co-Supervisor: David Stahl (Civil Engineering/Environmental Engineering).

**Ph.D. Degree (Major Professor):**

Rebekka Larson, USF-CMS, Geological Oceanography, Committee Chair, 2012-Present.

Greg Ellis, USF-CMS, Chemical Oceanography, Committee Chair, Ph.D. 2012.

Ana Coye-Hoare, USF-CMS, Chemical Oceanography, Committee Chair, Ph.D. 2011.

Elon Malkin, USF-CMS, Chemical Oceanography, Co-Chair with E. Peebles, Ph.D. 2010.

Julie Richey, USF-CMS, Chemical and Geological Oceanography, Co-Chair with B. Flowers, Ph.D. 2010.

Josef Werne, Northwestern University, Geological Sciences, Committee Chair, Ph.D. 2000.

Jonathan Rich, Northwestern University, Geological Sciences, Committee Chair, Ph.D. 1999.

Changrui Gong, Northwestern University, Geological Sciences, Committee Chair, Ph.D. 1998.

**M.S. Degree (Major Professor):**

Jong Jin Lee, USF-CMS Chemical Oceanography, Committee Chair, MS, 2017-Present.  
Kathleen Watson, USF-CMS Chemical Oceanography, Committee Chair, MS, 2012.  
Adam Brame, USF-CMS Chemical Oceanography, Co-chair with C. McIvor, MS, 2012.  
Anthony Nitti, USF-CMS Chemical Oceanography, Co-chair with M. Breitbart, MS, 2010.  
Marianne Dietz, USF-CMS Chemical Oceanography, Committee Chair, MS, 2008.  
Jennifer Flannery, USF-CMS Chemical Oceanography, Committee Chair, MS, 2008.  
Chris Maupin, USF- Geological Oceanography, Committee Chair, MS, 2008.  
Eric Cross, USF-CMS, Chemical Oceanography, Committee Chair, MS. 2006.  
Denise Palmer, USF-CMS, Chemical Oceanography, Co-chair with R. Poore, MS, 2006.  
Paul Forward, Northwestern University, Geological Sciences, Committee Chair, MS, 1994.  
Josef Werne, Northwestern University, Geological Sciences, Committee Chair, MS, 1998.

**Ph.D. Degree (Committee Member)**

Susan Snyder- USF-CMS, Marine Resource Assessment, 2015-Present  
Jennifer Grannamen, USF-Biological Oceanography, 2014-Present.  
Amy Wallace- USF-CMS, Biological Oceanography, 2014-Present  
Erin Pulster, USF- Health, Ph.D., 2015.  
James Patten, USF-CMS, Chemical Oceanography/COT, Ph.D., 2014.  
Laura Lorenzoni, USF- CMS, Biological Oceanography, Ph.D., 2012.  
Digna Rueda-Roa, USF-CMS, Biological Oceanography, Ph.D., 2012.  
Enrique Montes, USF- CMS, Biological Oceanography, Ph.D., 2011.  
Kristine DeLong, USF- CMS, Geological Oceanography, Ph.D., 2008.  
Luca Lai, USF- Anthropology, Ph.D., 2008.  
Linae Boehme, USF-CMS, Chemical Oceanography, Ph.D., 2007.  
Lori Adornato, USF-CMS, Chemical Oceanography, Ph.D., 2007.  
Heather Hill, USF-CMS, Geological Oceanography, Ph.D., 2006.  
Jennifer Smith, USF-CMS, Geological Oceanography, Ph.D., 2006.  
Mark Schwartz, Northwestern University. Archeology/Anthropology, Ph.D., 2003,  
Adam Murphy, Northwestern University, Geological Sciences, Ph.D., 2000.  
Robert Brown, University of Newcastle upon Tyne, Ph.D., 1999.  
Adam Kanouse, Northwestern University, Geological Sciences, Ph.D., 1999.  
Jerome Cruz, Northwestern University, Geological Sciences, Ph.D., 1995.  
Zhixin Xie, Northwestern University, Geological Sciences, Ph.D., 1994.  
Huaxiao Wang, Northwestern University, Geological Sciences, Ph.D., 1994.

**M.S. Degree (Committee Member)**

Brock Houston, USF-CMS, Biological Oceanography, MS 2015  
Sherri Huelster, USF-CMS, Biological Oceanography, MS, 2015.  
Limaris Soto, USF/Tampa- Environmental Science and Policy, MS, 2006.  
Kristine DeLong, USF-CMS, Geological Oceanography, MS, 2006.  
Julie Richey, USF-CMS, Geological Oceanography, MS, 2005.  
Julie Haven, USF-CMS, Biological Oceanography, MS, 2004.  
Hali Kilbourne, USF-CMS, Geological Oceanography, MS, 2003.  
Christy Stephens, USF-CMS, Geological Oceanography, MS, 2003.  
Adam Murphy, Northwestern University, Geological Sciences, MS., 1997.

**Undergraduate Senior Theses:**

Nicola Zenzola, Eckerd, College, St. Petersburg, FL, 2012 (Major: Marine Science).  
Jan Trienkens, Eckerd, College, St. Petersburg, FL, 2006 (Major: Marine Science).  
Jen Flannery, Eckerd, College, St. Petersburg, FL, 2005 (Major: Chemistry).  
David Adams, Eckerd College, St. Petersburg, FL, 2005 (Major: Marine Science).

- Paul Niles, Northwestern University, Geological Sciences, 1997 (Major: Geology).  
Sharminan Bohari, Northwestern University, Geological Sciences, 1996 (Major: Geology-Honors).  
Lora Murphy, Northwestern University, Geological Sciences and Environmental Sciences, 1997 (Majors: Geology and Environmental Sciences).  
Gregory Bourgon, Northwestern University, Geological Sciences and Geography, 1997 (Major Geography).  
Ben Van Mooy, Northwestern University, Geological Sciences and Chemistry, 1996 (Majors: Geology- Honors, and Chemistry).  
Michael Rosenberg, Northwestern University, Geological Sciences and Biology, 1994 (Majors: Geology and Biology).  
Jennifer Weber, Northwestern University, Geological Sciences, 1993 (Major: Geology).

**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.

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-Champagne, and Southern Illinois University/Carbondale.

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

**Professional/Academic/University and Community Service:**

**Professional Service Activity:**

**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

NASA- National Astrobiology Institute

Department of Energy

Sea Grant: Illinois and 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  
Deep Sea Research

**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 (2007-2011), Nutrient Cycling Task Force- Develop research strategy and protocol for assessing the status of estuarine ecosystems throughout the Gulf of Mexico

**Association Memberships:**

American Geophysical Union, AGU  
Geochemical Society, GS  
American Society of Limnologists and Oceanographers, ASLO  
Geological Society of America, GSA  
European Association of Organic Geochemists, EAOG

**Membership in the Editorial Board:**

Chemical Geology, Elsevier Science, 1999-2001

**Academic- University Service**

**College of Marine Science, University of South Florida, 2000-Present**

2018: Faculty Annual Review Committee, Chemical Oceanography Representative  
2017: Faculty Annual Review Committee: Chemical Oceanography Representative  
2017-Present: CMS Promotion Faculty Mentor (E. Peebles, A. Shevannel)  
2017-Present: Non-Tenure Earning Faculty Annual Review Committee, Member  
2017-Present: IMSE (Integrated Marine Science Exam) Committee, Member  
2013-Present: Dean's Advisory Committee (Chemical Oceanography Representative)  
2015-2016: CMS Chemical Oceanography Search Committee, Member  
2014: Faculty Annual Review Committee: Chemical Oceanography Representative  
2012-2013: Eminent Scholars Lecture Series, Chair  
2012: Annual Faculty Review Committee, Member  
2012-2013: CMS Paleooceanography Faculty Search Committee, Member  
2012-2013: CMS Chemical Oceanography Faculty Search Committee, Member  
2011-2012: CMS Paleooceanography Faculty Search Committee, Member  
2008-2009: CMS Fisheries Ecology, Faculty Search Committee, Member  
2007-Present: CMS Strategic Planning Committee, Member  
2005-2013: CMS Weekly Seminar Committee, Chair  
2003-Present: Honors and Awards Committee, Member  
2003-Present: Post-Doctoral Fellowship, Ad Hoc Committee, Member  
2001-2011: 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 Liaison 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  
2003-2011 Graduate Student Recruitment Committee, Member  
2002: Annual Faculty Review Committee, Member  
2000-2001: Environmental Science Program- Chemistry Faculty Search Committee Member

**University Committees:**

2004-2014: Presidential Graduate Student Fellowship Committee  
2002-2005: Faculty Senate Research Council, Member

**Department of Geological Sciences, Northwestern University (1992-2000)**

**Department and Program Offices:**

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

**University of South Florida, College of Marine Science****Deepwater Horizon Blowout Event:**

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 in the St. Peterburg Times

**#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. 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.”

“**Lesson?** The BP spill revealed both the depth of expertise and backbone of USF's marine sciences faculty. Hollander's findings could increase the fine BP may end up paying for damaging the gulf.”

2000-2001: Member, Pinellas Point, Community Association

**Northwestern University:**

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).