

CURRICULUM VITAE
DAVID J. HOLLANDER

Date:

December 2019

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

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:

2019: Invited Speaker: 3rd Hamburg Symposium on Deep-Sea Oil Spills- "MOSSFA events: Origins, spatial distributions, ecologic impacts, oil budget considerations and a new approach to predicting MOSSFA prone areas to guide future oil spill response", Ten Anniversary of the Institute of Multiphase Flow, Technical University Hamburg-Harburg, Germany, December 2019

Invited Author: Gulf of Mexico: Origin, Waters and Biota Series- Volume 5- "Chemical Oceanography", *T. Bianchi* (Ed.), Marine Sediment Chemistry, Chanton, J., Lapham, L., Bianchi, T., Rogers, K., Hollander, D., Joye, S., 216-234. ISBN-13-978-1-62349-774-3, Texas AM publishing; August 2019

Co-editor on a two book series, Springer Nature, Switzerland, On-line versions published: July 2019; Print versions published January 2020

Book 1: *Deep Oil Spills – Facts, Fate and Effects*, 34 chapters: *Murawski SA, Ainsworth C, Gilbert S, Hollander D.J., Paris CB, Schlüter M, Wetzel D (Eds.)* Springer pp. 542, ISBN 978-3-020-12692-0, <http://doi.org/10.1007/978-3-030-12964-7>

Book 2: *Scenarios and Responses to Future Deep Oil Spills – Fighting the Next War*; 29 Chapters; Murawski SA, Ainsworth C, Gilbert S, Hollander D.J, Paris CB, Schlüter M, Wetzel D (Eds.) Springer pp. 611, ISBN 978-3-030-11604-0, <http://doi.org/10.1007/978-3-030-11605-7>

- Invited Speaker, David J. Hollander, Chuanmin Hu, Albertinka J. Murk, Edwin M. Foekema, Alette Langenhoff, Sophie M. Vonk, Yongxue Liu, Shaoje Sun, Sherryl Gilbert, Claire B. Paris, Natalie Perlin⁴, Nancy Kinner, Jesse Ross, Dana Wetzel, Identifying MOSSFA Sensitive Areas to Guide Future Oil Spill Response: From Deep-water Blowouts to the Emerging Topic of Shallow-Water MOSSFA Events, Workshop: Responding to Future Deep Oil Spills - Fighting the Next War. New Orleans, LA, February 4, 2019.
- Workshop leader “GoMRI: Gulf of Mexico Research Initiative *Synthesis and Legacy Group*”: Task 2- “*Fate of Oil and Weathering: Biological & Physical-Chemical Degradation*”, St. Petersburg, FL April 2019.
- Invited Participant and Speaker, Workshop on “Leveraging science and academic engagement during an incident”, Keynote: “The role of the Florida Institute of Oceanography during the DWH”, Tiburon, CA March 2019.
- 2018: Garrison Monterey Research Conference: *Four decades of research on the Monterey Formation and Neogene marine units*, International Meeting to Commemorate the Scientific Contributions of Prof. Robert E. Garrison, Invited Presentation, “Comparison of sediment records from the Ixtoc-1 (1979) and DWH (2010) marine oil well blowouts in the Gulf of Mexico”, Garrison Monterey Research Conference, Santa Cruz, CA, May 2018.
- Workshop Co-Chair: Hollander, D.J. and Quigg, A. (Co-Chairs), Burd, A., Chanton, J., “MOSSFA Workshop: Formation, Sedimentation and Modeling of MOSSFA (Marine Oil Snow Sedimentation and Flocculent Accumulation)”, November 27-28, 2018, Galveston, Texas
- Member of the “GoMRI: Gulf of Mexico Research Initiative *Synthesis and Legacy Group*”: Task 2- “*Fate of Oil and Weathering: Biological & Physical-Chemical Degradation*”, November-December 2018.
- 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

2019:

Changing Sea: Tenth Anniversary of the Deepwater Horizon Oil-Well Blowout; December 2019

“*Dispatches from the Gulf*, Documentary film and 3rd episode in the Journey to Planet Earth Series, Producers by Screenscope Inc., Supported by the Gulf of Mexico Research Initiative

2018:

“*Dispatches from the Gulf*, Documentary film and 2nd episode in the Journey to Planet Earth Series, Producers by Screenscope Inc., Supported by the Gulf of Mexico Research Initiative

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 1st 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

University Beat.

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

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, 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/

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:

Rejected Grant Proposal (Submitted Fall 2018- Rejected Spring 2019)

Steven Murawski, David Hollander, Erin Pulster, Isabel C. Romero, Patrick Schwing, Ernst Peebles, Mya Breitbart; Trophic uptake of contaminants by fishes in the Gulf of Mexico: consideration of inshore-offshore and regional gradients; NOAA- Restore Act;

September 2019 – August 2024, Total Budget: \$4,903,587

Year 1: \$884,728 with shiptime, \$704,728 without shiptime

Year 2: \$933,654 with shiptime, \$933,654 without shiptime

Year 3: \$1,096,520 with shiptime, \$916,520 without shiptime

Year 4: \$983,717 with shiptime, \$983,717 without shiptime

Year 5: \$1,004,968 with shiptime, \$824,968 without shiptime

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.

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. Neilson, 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 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.
- 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 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.

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 Paleooceanographic 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, Pinnellas 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) Rohal, M. Barrera, N, Escobar-Briones, E., **Hollander, D.J.**, Montagna, P.A., Pryor, M., Romero, I.C., Schwing, P.T. (In Review). How Quickly Will the Deep-Sea Ecosystem Recover from the 2010 DeepWater Horizon Oil Spill? Lessons Learned from the 1979 Ixtoc-1 Oil Well Blowout Event.
- 2) Bosman, S.H., Schwing, P.T., Larson, R.A., Wildermann, N.E., Brooks, G.R., Romero, I.C., Sanchez-Cabeza, J.A., Ruiz-Fernández, A.C., Machain-Castillo, M.L., Gracia, A., Escobar, E., Murawski, S., **Hollander, D.J.**, Chanton, J.P. (In Review). Filling in the gaps 36 years after the IXTOC I well blowout: A synopsis of the isotopic data analyzed on sediment samples collected in the southern Gulf of Mexico in 2015 and 2016. PlosOne.

- 3) Schwing, P.T., O'Malley, B.J., Rohal, M., van Eenennaam, J.S., Murk, A.J., Foekema, E.M., **Hollander, D.J.** (In Review). The impact of experimental oil-contaminated marine snow on benthic foraminifera. *Marine Pollution Bulletin*.
- 4) Radović, J.R., Lincoln, S., Schwing, P.T., Silva, R.C., Duong, K.N., Jaggi, A., Larson, R.A., Brooks, G.R., **Hollander, D.J.**, Larter, S.R., Oldenburg, T.B.P. (In Review). Sedimentary Record of the post-Deepwater horizon depositional event and the benthic response. *Anthropocene*.
- 5) 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*.
- 6) Larson R.A., Brooks, G.R., Holmes, C.W., Schwing, P.T., **Hollander, D.J.** (In Review). Refining Short-lived Radioisotope Geochronology Analysis and Application to High Resolution Sediment Records. *Applied Geochemistry*
- 7) K. L. Rogers, S. H. Bosman, B. E. Rosenheim, J. P. Montoya, **D. Hollander**, T. Zhao, N. Wildermann, and J. P. Chanton, Mapping spatial and temporal variation of seafloor organic matter $\delta^{14}\text{C}$ and $\delta^{13}\text{C}$ in the Northern Gulf of Mexico following the Deepwater Horizon Oil Spill, *Oil Pollution Bulletin*

In Press/Accepted:

- 1) Overholt, W.A., Patrick Schwing, David Hastings, **David J. Hollander**, Joel E. Kostka, (In Press) Biogeographic Patterns in Benthic Microbial Communities throughout the Gulf of Mexico, *Multidisciplinary Journal of Microbial Ecology* (ISME).
- 2) Lai, L., Fonzo, O., Beckett, J.F., Tykot, R.H., O'Connell, T., Goddard, E., and **Hollander, D.J.**, (In Press) 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*.

Published:

123. Pulster, E.L., Johnson, G., **Hollander, D.**, McCluskey, J. and Harbison, R. (2019) Levels and Sources of Atmospheric Polycyclic Aromatic Hydrocarbons Surrounding an Oil Refinery in Curaçao. *Journal of Environmental Protection*, 10, 431-453. <https://doi.org/10.4236/jep.2019.103025>.
122. Murk AJ, **Hollander DJ**, Chen S, Hu C, Li Y, Vonk SM, Schwing PT, Gilbert S, Foekema EM (2019) A Predictive Strategy for Mapping Locations Where Future MOSSFA Events Are Expected, In: *Scenarios and Responses to Future Deep Oil Spills – Fighting the Next War; Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) Springer p. 355-368.* .
121. Foekema, E.M., Eenennaam, J., Rohal, M., Romero, I.C., Schwing P.T., and Murk, A.J. (2019) Testing the Effect of MOSSFA (Marine Oil Snow Sedimentation and Flocculent Accumulation) Events in Benthic Microcosms, In: *Scenarios and Responses to Future Deep Oil Spills – Fighting the Next War; Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) Springer p. 288-299.*
120. Patterson, W.F., Chanton, J.P., **Hollander, D.J.**, Goddard, E.A., Barnett, B.K., and Tarnecki, J.H.: (2019) The Utility of Stable and Radio Isotopes in Fish Tissues as Biogeochemical Tracers of Marine Oil Spill Food Webs Effects, In: *Scenarios and Responses to Future Deep Oil Spills – Fighting the Next War; Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) Springer p. 219-238.*
119. Peebles, E.B. and **Hollander, D.J.** (2019)Combining Isoscapes with Tissue-

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115. Murawski SA, Ainsworth C, Gilbert S, **Hollander D**, Paris CB, Schlüter M, Wetzel D. (2019) Dummary of progress on major research issues: Deep-sea oil spill., In: *Deep Oil Spills – Facts Fate and Effects*, Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.), Springer 584-594.
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113. Larson, RA, Brooks, GR; Schwing, PT; Diercks, AR., Holmes, CW; Chanton, C., Diaz-Asencio, M., **Hollander, DJ**. (2019) Characterization of the sedimentation pulse associated with the Deepwater Horizon blowout: depositinal pulse, initial response and stabilization, In: *Deep Oil Spills – Facts Fate and Effects*, Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) Springer, p. 235-252.
112. Romero, I.C., J.P. Chanton, B.E. Rosenheim, J. Radović, P.T. Schwing, **D.J. Hollander**, S.R. Larter and T.B.P. Oldenburg (2019) Long-term Preservation of Oil Spill Events in Sediments: the case for the Deepwater Horizon Spill in the Northern Gulf of Mexico, In: *Deep Oil Spills – Facts Fate and Effects*, Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) Springer p. 285-300.
111. Schwing, P.T., **Hollander, D.J.**, Romer, I.C., Brooks, G.R., Larson, R.A., Hastings, D., Chanon, J., Lincoln, S., Radović, J., Langenhoff A. (2019) The sedimentary record of MOSSFA events in the Gulf of Mexico: A comparison of the Deepwater Horizon (2010) and IXTOC-1 (1979) Oil spills, In: *Deep Oil Spills – Facts Fate and Effects*, Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) Springer p. 221-234.
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- Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.)* Springer p. 221-234.
109. Hastings DW, Bartlett R, Brooks R, Larson RA, Quinn KA, Razonale D, Schwing PT, Pérez Bernal LH, Ruiz-Fernández AC, Sánchez-Cabeza JA, **Hollander DJ**, (2019) Changes in Redox Conditions of Surface Sediments Following the BP Deepwater Horizon and Ixtoc 1 Events. pp: xx-xx, In: *Deep Oil Spills – Facts Fate and Effects*, *Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.)*, Springer p. 269-284.
108. Chanton, J., Lapham, L., Bianchi, T., Rogers, K., **Hollander, D.**, Joye, S. (2019), Marine Sediment Chemistry, In: *Gulf of Mexico: Origin, Waters and Biota Series- Volume 5 Chemical Oceanography T. Bianchi* (Ed.) p. 216-234, Texas AM publishing; August 2019, ISBN-13-978-1-62349-774-3.
107. Sun, X., Chu, L., Mercado, E, Prince, R.C., Romero, I.C., **Hollander, D.J.**, and Kostka, J.E. (2019) Dispersant enhances hydrocarbon degradation and alters the structure of metabolically active microbial communities in shallow seawater from the northeastern Gulf of Mexico, *Frontiers in Microbiology- Aquatic Microbiology*. Front. Microbiol., <https://doi.org/10.3389/fmicb.2019.02387>
106. Nelson, R.T., Gosselin, K.M., **Hollander, D.J.**, Murawski, S.A., Gracia, A. Reddy, C.M. Radović, J.R., (2019) Exploring the Complexity of Two Iconic Crude Oil Spills in the Gulf of Mexico (Ixtoc I and Deepwater Horizon) Using Comprehensive Two-dimensional Gas Chromatography (GC×GC), *Energy and Fuel*. DOI: [10.1021/acs.energyfuels.8b04384](https://doi.org/10.1021/acs.energyfuels.8b04384)
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104. Overholt, W.A., Schwing, P.T., Hastings, D.W., **Hollander, D.J.**, Kostka, J.E. (2019). The core seafloor microbiome in the Gulf of Mexico is remarkably consistent and shows evidence of recovery from disturbance caused by major oil spills. *Environmental Microbiology*, doi: 10.1111/1462-2920.14794..
103. Ruiz Fernandez, A.C., Rangel-Garcia, M., Perez Bernal, L.H., Lopez-Mendoza, P.G., Gracia, A., Schwing, P.T., **Hollander, D.J.**, Paez-Ozuna, F., Cardos-Mohedano, G., Cuellar-Martinez, T.C., Sanchez Cabeza, J.A. (2019). Mercury concentrations in sediment cores from the southern Gulf of Mexico. *Marine Pollution Bulletin*, 149, <https://doi.org/10.1016/j.marpolbul.2019.110498>.
102. 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>.
101. Puslter, E., G. Johnson, **D. Hollander**, J. McCluskey, R. Harbison, (2018) Exposure assessment of ambient sulfur dioxide downwind of an oil refinery in Curaçao, *International Journal of Environmental Pollution. Journal of Environmental Protection*, 9, 194-210. doi: [10.4236/jep.2018.93014](https://doi.org/10.4236/jep.2018.93014).
100. Larson, R.A., Brooks, G.R., Schwing, P.T., Carter, S., **Hollander, D.J.** (2018). High Resolution Investigation of Event-Driven Sedimentation: Northeastern Gulf of Mexico. *Anthropocene*, 24, 40–50, [10.1016/j.ancene.2018.11.002](https://doi.org/10.1016/j.ancene.2018.11.002).
99. Schwing, P.T., Chanton, J.P., **Hollander, D.J.**, Goddard, E.A., Romero, I.C., Brooks, G.R., Larson, R.A. (2018). Tracing the Incorporation of Petroleum Carbon into Benthic Foraminiferal Calcite Following the Deepwater Horizon Event. *Environmental Pollution* 237:424-429. DOI: 10.1016/j.envpol.2018.02.066

98. 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>.
97. Romero I.C., T.Sutton, B.Carr, E. Quintana-Rizzo, S.W. Ross, **D.J. Hollander**, J.J. Torres. (2018). Decadal assessment of polycyclic aromatic hydrocarbons in mesopelagic fishes from the Gulf of Mexico reveals exposure to oil-derived sources. *Environmental Science & Technology*. DOI: 10.1021/acs.est.8b02243.
96. Ainsworth, C.; Paris, C., Perlin, N., Dornberger, L. Patterson, W., Chancellor, E., Murawski, S., **Hollander, D.**, Daly, K., Romero, I.C., Coleman, F., Perryman, H. (2018). Ecosystem Impacts of the Deepwater Horizon oil spill. *PLoS ONE*, 13(1): e0190840.
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94. 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 $^{210}\text{Pb}_{\text{xs}}$ inventory approach. *Environmental Science & Technology*, 51, 5962–5968. DOI: 10.1021/acs.est.7b00450
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Non Peer-Reviewed Publications

Manuscripts, Short-Courses and Reports

- 2019: Hollander, D.J., Quigg, A., Burd, A., Chanton, J. Gilbert, S., Gulf of Mexico Research Initiative Synthesis Workshop I MOSSFA – Core Area Two, Workshop Report November 26-28, 2018, Galveston, Texas
<https://gulfresearchinitiative.org/wp-content/uploads/MOSSFA-Workshop-Report-Nov2018-APRIL-2019-Final.pdf>
- 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>.
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Professional Talks:

Federally Supported Workshop and Research Lecture Series:

- 2019: Workshop leader “GoMRI: Gulf of Mexico Research Initiative *Synthesis and Legacy Group*”: Task 2- “Fate of Oil and Weathering: Biological & Physical-Chemical Degradation”, St. Petersburg, FL April 2019.
Invited Participant and Speaker, Workshop on “Leveraging science and academic engagement during an incident”, Keynote: “The role of the Florida Institute of Oceanography during the DWH”, Tiburon, CA March 2019.
- 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:

2019

- Hollander, D.J., Murawski, S.A., Schluter, M., Schwing, P.T., Paris-Limouzy, C.B., Petsch, S.J., Oldenburg, T., Larter, S., Hu, C., New Visions for Oil Spill Preparedness from the Perspective of the Deepwater Horizon Blowout, the Sediment Slumping at Taylor Energy, and Continued Deep Sea Oil Exploration and Production in Frontier Region, AGU Fall Meeting, December 2019, San Francisco, CA.
- Patrick T. Schwing, Bryan J. O'Malley, Gregg R. Brooks, Rebekka A. Larson, Isabel C. Romero, Melissa Rohal, Paul Montagna, Maria Machain Castillo, Michael Reuscher, Elva Escobar Briones, David W. Hastings, Maickel Armenteros, Adrian Martinez Suarez, Misael Diaz Ascencio, Jagos Radovic, David J. Hollander. The need for comprehensive benthic baselines and monitoring programs prior to marine petroleum extraction: Lessons learned from the Deepwater Horizon Oil Spill, AGU Fall Meeting, December 2019, San Francisco, CA.
- David J. Hollander, Chuanmin Hu, Claire Paris, Albertinka J. Murk, Edwin M. Foekema, Alette Langenhoff, Patrick Schwing, Isabel Romero, MOSSFA events: Origins, spatial distributions, ecologic impacts, oil budget considerations and a new approach to predicting MOSSFA prone areas to guide future oil spill response, 3rd Symposium on Deep-Sea Oil Spills, Hamburg, Germany December 2019
- Rebekka A. Larson, Gregg R. Brooks, Patrick T. Schwing, Misael Diaz-Ascencio, Arne Diercks, Jeff Chanton, Juan Carlos Herguera, Maickel Armenteros, David J. Hollander, High-Resolution Sediment Studies Using ²³⁴Th_{xs}: for Detecting Oil Spill Impacts and Developing Basin-Scales Baselines, In: 2019 RAUGM, Puerto Vallarta, Mexico: 10/27/19-11/1/19.
- Hollander, D.J., Murawski, S.A., Schlüter, M., Schwing, P.T., Paris-Limouzy, C.B., Petsch, S.J., Oldenburg, T.B.P., Larter, S., Romero, I., Hu, C., A New Vision of Oil Spill Preparedness for the New Breed of Oil Spills, In: 2019 RAUGM, Puerto Vallarta, Mexico: 10/27/19-11/1/19.
- Isabel C. Romero, Tracey Sutton, Arne Dierks, Will Patterson, David J. Hollander, Jeff Chanton, Gregg Brooks, Rebekka Larson, Steve Murawski. "El legado químico de los derrames de petróleo en el Golfo de México: lecciones aprendidas de los análisis de muestras biológicas y de sedimentos" In: 2019 RAUGM, Puerto Vallarta, Mexico: 10/27/19-11/1/19.
- Patrick T. Schwing, Bryan J. O'Malley, Gregg R. Brooks, Rebekka A. Larson, Melissa Rohal, Isabel C. Romero, Will A. Overholt, Maria Machain Castillo, Elva Escobar Briones, Maickel Armenteros, Adrian Martinez Suarez, David J. Hollander. Developing the tools and best practices to quantitatively measure benthic oil spill impact and recovery: Lessons learned from the Deepwater Horizon and Ixtoc 1 Oil Spills. RAUGM, Puerto Vallarta, Mexico: 10/27/19-11/1/19.
- Schwing, P.T., O'Malley, B.J., Machain-Castillo, M.L., Armenteros, M., Martínez-Colón, M., Hollander, D.J. (2019). Benthic foraminifera baseline measurements and inter-regional comparisons for the deep Gulf of Mexico. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, August 2019.
- Schwing, P.T., O'Malley, B.J., Martínez-Colón, M., Brooks, G.R., Larson, R.A., Hastings, D.W., Armenteros, M., Hollander, D.J. Establishing Environmental

- Baselines and Anthropogenic Influence on the Northern Cuban Continental Shelf and Slope using Benthic Foraminifera. Micropaleontological Society Foram-Nanno Meeting, Fribourg, Switzerland, July 2019.
- Romero I.C., Sutton, T., Carr B, Quintana-Rizzo, E., Ross, S.W., Judkins, H., Hollander D.J., and Torres, J.J. "Understanding bioaccumulation of PAHs in deep-pelagic organisms: A decadal time-series assessment in GoM mesopelagic fishes" In: 2019 GOMOSEs, New Orleans: February 2019.
- A. Quigg, A. Burd, D. Hollander, MOSSFA: Understanding Ecosystem Impacts and Predictive Modeling , In: 2019 GOMOSEs, New Orleans: February 2019.
- M. L. Machain-Castillo, A. Gracia, A. C. Ruiz-Fernandez, J. A. Sanchez-Cabeza, A. Rodriguez-Ramirez, H. M. Alexander-Valdes, X. A. Nava-Fernandez, L. Almaraz-Ruiz, P. Schwing, D. Hollander, In: 2019 GOMOSEs, New Orleans: February 2019.
- B. O'Malley, P. T. Schwing, M. Martinez-Colon, R. A. Larson, G. R. Brooks, D. J. Hollander, The Development and Implementation of the Foram-AMBI for the Gulf of Mexico, In: 2019 GOMOSEs, New Orleans: February 2019.
- P. Schwing, B. O'Malley, M. Machain-Castillo, M. Armenteros, D. Hollander, The Utility of Benthic Foraminifera for Gulf of Mexico Oil Spill Science and Resource Management, In: 2019 GOMOSEs, New Orleans: February 2019.
- R. A. Larson, G. R. Brooks, P. Schwing, M. Armenteros-Almanza, M. Diaz-Asencio, A. Martinez-Suarez, G. Hidalgo-Perez, D. Jimenez-Reyes, D. Hollander, Spatial and Temporal Sediment Distribution and Accumulation Patterns: NW Cuba, In: 2019 GOMOSEs, New Orleans: February 2019.
- D. Hastings, P. T. Schwing, T. R. Bartlett, G. Brooks, R. A. Larson, K. A. Quinn², D. J. Hollander Evolution of Sedimentary Redox Conditions following Deepwater Horizon Blowout: Geochemical and Ecological Implications, In: 2019 GOMOSEs, New Orleans: February 2019
- J. E. Kostka¹, W. Overholt¹, X. Sun¹, I. Romero², D. Hollander², K. Konstantinidis¹, M. Huettel Weathered Crude Oil from the Deepwater Horizon Oil Spill was Rapidly Biodegraded but Altered Nutrient Cycles in Permeable Nearshore Sediments, In: 2019 GOMOSEs, New Orleans: February 2019
- J. Lee, P. T. Schwing, G. R. Brooks, R. A. Larson, D. J. Hollander, Variation of Sedimentary Biogenic Silica Deposition in the Southern Gulf of Mexico before and after the IXTOC-I Oil Spill (1979-80), In: 2019 GOMOSEs, New Orleans: February 2019
- A. J. Murk, E. M. Foekema, S. Gilbert, D. Hollander, A. Langenhoff, Y. Liu, S. Vonk, C. Hu, Identifying MOSSFA Sensitive Areas to Guide Future Oil Spill Response Strategies, In: 2019 GOMOSEs, New Orleans: February 2019.
- K. Rogers, S. Bosman, T. Zhao, B. Rosenheim, J. Montoya, D. Hollander, J. Chanton, Mapping Spatial and Temporal Variation of Seafloor Organic Matter D14C and d13C in the Northern Gulf of Mexico following the Deepwater Horizon Event, In: 2019 GOMOSEs, New Orleans: February 2019.
- Joel E. Kostka, Will A. Overholt, Elisa Mercado, Xiaoxu Sun, Isabel C. Romero, David J. Hollander, Kostas Konstantinidis, Markus Huettel. Weathered crude oil from the Deepwater Horizon oil spill was rapidly biodegraded but altered nutrient cycles in permeable nearshore sediments. In: 2019 GOMOSEs, New Orleans: 02/4/19-02/7/19.
- Paul A. Montagna, Melissa Rohal, Patrick Schwing, Isabel Romero, and Elva Escobar-Briones. Lessons Learned From Ixtoc and Deepwater Horizon: Inspired by Wes Tunnell. In: 2019 GOMOSEs, New Orleans: 02/4/19-02/7/19.
- J. Radovic, A. Jaggi, S. Lincoln, I. Romero, R. Nelson, P. Schwing, C. Reddy, D. Hollander, S. Larter, T. Oldenburg. Comprehensive Analytical Approaches to Spill

Characterization: Case Studies and Examples. In: 2019 GOMOSES, New Orleans: February 2019.

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- O'Malley, B. J., Schwing, P.T., Armenteros, M. and Hollander, D.J. (2018). Benthic foraminifera as indicators for environmental baselines and anthropogenic influence on the northern Cuban continental slope. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Romero, I.C., John W. Tunnell, Jr., Aprami Jaggi, Jagoš Radović, Joel Kostka, Jeff Chanton, Thomas B.P. Oldenburg, Dave J. Hollander. Assessing the weathering of residual oil deposited in Mexico coastal environments 37 years after the IXTOC-1 spill using novel analytical techniques. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Larson, R.A., Brooks, G.R., Schwing, P.T., Carter, S., Yang, K., Hollander D., 2018, High-Resolution Sedimentary Record of the DwH Event: Impacts and Recovery, Oral presentation, Gulf of Mexico Research Oil Spill and Ecosystem (GoMOSES) Conference, February 5-9, New Orleans, LA.
- Hastings, D.W., P.T. Schwing, T. R. Bartlett, G. Brooks, B. E. Carr, J. Kostka, R.A. Larson, K. A. Quinn, D. Razonale, W. Overholt, D.J. Hollander, Changes in Sedimentary Redox Conditions Following the Deepwater Horizon Blowout and IXTOC-I events: Geochemical and Ecological Implications, In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Lee, J.J., Patrick T. Schwing, Isabel C. Romero, Gregg R. Brooks, Rebekka A. Larson, Will A. Overholt, Joel E. Kostka, David J. Hollander Elevated Rates of Biogenic Silica Deposition in the Sediment from the Northern Gulf of Mexico during the Deepwater Horizon Oil Spill. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Kostka, J.E., Will A. Overholt, Elisa Mercado, Xiaoxu Sun, Isabel C. Romero, David J. Hollander, Smruthi Karthikeyan, Luis M Rodriguez-R, Kostas Konstantinidis, Markus Huettel. The impacts of weathered oil on ecosystem function in coastal sands. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Radović, Jagoš R., Isabel C. Romero, Wes Tunnell, Aprami Jaggi, Joel Kostka, Jeff Chanton, Dave Hollander, Thomas B.P. Oldenburg. Characterization of Weathered Petroleum in the Coastal Samples from the southern Gulf of Mexico using FTICR-MS. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Bartlett T., I.C. Romero, N. Zenzola, B. Carr, E. Goddard, G. Ellis, David Hollander. 36 Year Depositional History of Ixtoc-1 Oil Spill Hydrocarbons: Persistence, Sources and Potential Impacts. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Rohal, Melissa; Elva Escobar-Briones; Paul Montagna; Isabel C. Romero; David Hollander. How quickly does the deep sea recover from an oil spill? Lessons from the Ixtoc 1979. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- 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., Valdez-Hernández, M., Schwing, P.T., Hollander, D.J., IXTOC OIL SPILL IMPACT ON COASTAL AREAS OF THE SW GULF OF MEXICO. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- RUIZ FERNANDEZ, A.C., L.H. PEREZ BERNAL, H.D. CARRANZA-BAUTISTA, P.G. LOPEZ-MENDOZA, J.A. SANCHEZ CABEZA, M.L. MACHAIN-CASTILLO, A. GRACIA, D. HASTINGS, P. SCHWING, D. HOLLANDER, Trace metal concentration and fluxes in sediment from the Southern Gulf of Mexico and its relationship with the IXTOC

- Oil Spill, In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Rogers, Kelsey L. , Samantha Bosman, Brad Rosenheim, Mary Lardie Gaylord, David Hollander, Joseph Montoya, Jeffrey P Chanton, Assessing transformations of oil deposited on the seafloor of the Gulf of Mexico using ramped oxidation and ¹⁴C analysis, In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Schwing, P.T., O'Malley, B.J., Machain-Castillo, M.L., Hastings, D.W., Armenteros, M., Hollander, D.J. (2018). Using benthic foraminifera to assess oil spill impact, resilience, long-term preservation, and to provide a measure of Gulfwide benthic baselines. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- J.A. Sanchez-Cabeza, A.C. Ruiz-Fernández, M.L. Machain-Castillo, A. Gracia-Gasca, L.H. Pérez-Bernal, P.T. Schwing, G. R. Brooks, R.A. Larson, D. Hollander, A preliminary synthesis of sediment accumulation rates in the Southern Gulf of Mexico. In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Gregg, R. Brooks, Rebekka A. Larson, Maickel Armenteros-Almanza, Misael Diaz-Asencio, Adrian Martínez-Suárez , Gabriela Hidalgo-Perez, Patrick Schwing, David Hollander, Recent sedimentation patterns off NW Cuba: Comparison with DwH and IXTOC-I impacted sediments, In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Ernst B. Peebles, S.A. Huelster, A.A. Wallace, B.C. Michaud, S. Murawski, D.J. Hollander, Fish-based isoscapes baseline for American, Mexican and Cuban continental-shelf habitats of the entire Gulf of Mexico, In: *Gulf of Mexico Oil Spill & Ecosystem Science Conf.* New Orleans: 02/5/18-02/8/18.
- Schwing, P.T., O'Malley, BJ, Machain-Castillo, M.L., Armenteros, M., Hollander, D.J. (2018). Utilizing Benthic Foraminifera to Assess the Impacts of Oil Spills and Environmental Response in the Gulf of Mexico: Past, Present and Future. International Symposium on Foraminifera (FORAMS), Edinburgh, Scotland.
- Hastings, D.W., P.T. Schwing, T. R. Bartlett, G. Brooks, B. E. Carr, J. Kostka, R.A. Larson, K. A. Quinn, D. Razonale, W. Overholt, D.J. Hollander, Changes in Sedimentary Redox Conditions Following the Deepwater Horizon Blowout and IXTOC-I events: Geochemical and Ecological Implications, Ocean Sciences Meeting, Portland, OR., February 2018.
- Hollander, D.J., P. Schwing, I. C. Romero, G. Brooks, R. Larson, D. Hastings, J. Kostka, J. Chanton, A. Gracia, M. Machain, K. Daly, E. Escobar-Briones, E. Foekema, K. Freeman, C. Hu, S. Lincoln, P. Montagna, S. Murawski, T. Murk, T. Oldenburg, J. Radovic, C. Reddy, C. Ruiz-Fernández, J. Sánchez-Cabeza, S. Sun, W. Tunnell, S. Vonk: GENERATION APART BUT OF COMMON ANCESTRY: COMPARISON OF MOSSFA EVENTS AND THE SEDIMENT RECORDS FROM THE IXTOC-1 (1979) AND THE DEEPWATER HORIZON (2010) MARINE OIL WELL BLOWOUTS IN THE GULF OF MEXICO, Ocean Sciences Meeting, Portland, OR., February 2018.
- Romero, I.C., Sutton, T., Quintana-Rizzo, E., Ross, S.W., Judkins, H., Torres, J.J. and Hollander, D.J. A 9-year Assessment of Polycyclic Aromatic Hydrocarbons Bioaccumulation in the Gulf of Mexico Mesopelagic Ecosystem, Ocean Sciences Meeting, Portland, OR., February 2018.
- J.A. Sanchez-Cabeza, A.C. Ruiz-Fernández, M.L. Machain-Castillo, A. Gracia-Gasca, L.H. Pérez-Bernal, P.T. Schwing, G. R. Brooks, R.A. Larson, D. Hollander, Dating recent sediments from the southern Gulf of Mexico, I2SM meeting International

Symposium on Sediment Management, San Cristobal de las Casas, Mexico, June 2018.

Jagoš R. Radović, Isabel C. Romero, John W. Tunnell, Jr., Aprami Jaggi, Joel Kostka, Jeff Chanton, Dave Hollander, Steve R. Larter and Thomas B.P. Oldenburg, Weathered Petroleum in Coastal Samples from the Southern Gulf of Mexico Collected 37 Years after the Ixtoc-I Spill and Characterized by FTICR-MS, AMOPTechnical Symposium on Environmental Contamination and response, Halifax, Nova Scotia, Canada, June 2018.

Larson, R.A, Brooks, G.R., Schwing, P.T., Armenteros, M., Diaz, M., Martinez, A., Hidalgo, G., Auerbach, L., Sarder, E., Jimenez, D., Hollander, D., 2018, Spatial and Temporal Sediment Distribution and Accumulation Patterns: NW Cuba, MarCuba Congreso de Ciencias del Mar, Habana, Cuba, Oct. 2018.

Schwing, P.T., O'Malley, B.J., Martínez-Colón, M., Brooks, G.R., Larson, R.A., Hastings, D.W., Armenteros, M., Hollander, D.J. Establishing Environmental Baselines and Anthropogenic Influence on the Northern Cuban Continental Shelf and Slope using Benthic Foraminifera. Simposio I: Impactos humanos y Gestión de riesgos, XI Congreso de Ciencias del Mar (MARCUBA), Habana, Cuba, October 2018.

Larson, R.A., Brooks, G.R., Schwing, P.T., Holmes, C.W., Chanton, J., Diercks, A., Romero, I., Hollander, D., 2018, The Second Half of MOSSFA: Sedimentation and Flocculent Accumulation, Invited Talk, MOSSFA (Marine Oil Snow Sedimentation and Flocculent Accumulation) Synthesis Workshop I, Nov. 26-28, 2018 Galveston, TX

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. Razonale, 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 ^{210}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). ^{13}C and ^{14}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.
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- 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 Turf 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., and D.J. Hollander, Factors controlling the organic facies in the upper Kimmeridgian of Dorset (UK), 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., Vandembroucke, 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° 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 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 100th 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- 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):

2019

University of California/Santa Cruz, “*A New Vision of Oil Spill Preparedness for the New Breed of Oil Spills*”, September 2019

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-1 (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.

1st 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.

CO₂ 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 Prahl, 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 2019, 2018 (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 Geology, 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, 2016-2019, GoMR C-IMAGE and Deepend, funded.

Dr. Patrick Schwing, 2016-2019, 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, 2019.

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):

Thea Bartlett, USF-CMS Chemical Oceanography, Committee Chair, MS, 2018-Present.

Bryan O'Malley, USF-CMS Geogocial Oceanography, Committee Chair, MS, 2018-Present.
 Jong Jin Lee, USF-CMS Chemical Oceanography, Committee Chair, MS, 2019.
 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, 2020
 Amy Wallace- USF-CMS, Biological Oceanography, 2019
 Jennifer Grannamen, USF-Biological Oceanography, 2018.
 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/Antropology, 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)

Progress in Oceanography

Frontiers in Marine Science

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

2017-2019: Dean's Advisory Committee (DAC), Member-Chemical Oceanography Representative
2017-2019: IMSE Committee, Member-Chemical Oceanography Representative
2017-2019: CMS Faculty Promotion Committee
2017-2019: Non-Tenure Earning Faculty Annual Review Committee, Member
2015-2016: CMS Chemical Oceanography Search Committee, Member
2013-2015: Dean's Advisory Committee (Chemical Oceanography Representative)
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.”

2019: **Gulfport Waterfront Task Force**- Policy assessment and community engagement regarding storm water discharge into Clam Bayou/Boca Ciega Bay and waterfront boating activities (mooring fields, live-aboard, derelict and abandon boat and pier regulations) on Boca Ciega Bay.

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).