Center for Environmental Diagnostics and Bioremediation

University of West Florida

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### **EDUCATION**

B.S. Biology. Virginia Polytechnic Institute and State University, Blacksburg, VA, 1981.

M.S. Marine Science. University of South Florida, St. Petersburg, FL, 1985.

Thesis Title: *The activity of attached and free-living estuarine bacteria*

Thesis Advisor: John H. Paul

Ph.D. Marine Science. University of South Florida, St. Petersburg, FL, 1989.

Dissertation Title: *Validation of [3H]thymidine incorporation and its application to*

*detecting natural transformation in the environment*

Dissertation Advisor: John H. Paul

HONORS AND AWARDS

Sigma Xi Scientific Research Honor Society (2019); Association for the Sciences of Limnology and Oceanography Fellow (2017); Distinguished University Professor, University of West Florida (2017); Distinguished Research and Creative Activity Award, University of West Florida (2000; 2007); National Research Council Post Doctoral Fellowship (1989); John B. Lake Fellowship in Marine Science, awarded to the outstanding graduate student in the Marine Science Department, University of South Florida (1987); Gulf Oceanographic Development Foundation Fellowship (1985), University of South Florida

# **RESEARCH INTERESTS**

Effects of ultraviolet radiation on marine ecosystems and induction of bacterial DNA damage repair systems; Ecological impact of stress; Microbial biodiversity; Oil Spill Microbiology; Extreme environment microbiology

EMPLOYMENT HISTORY

2017 – Present. Director, Reubin O’D. Askew Institute for Multidisciplinary Studies, University of West Florida, Pensacola, FL.

2017 – Present. Distinguished University Professor, University of West Florida, Pensacola, FL.

2015 –Present. Director, Center for Environmental Diagnostics and Bioremediation, University of West Florida, Pensacola, FL.

2006 –Present. Professor, Center for Environmental Diagnostics and Bioremediation and Department of Biology. University of West Florida, Pensacola, FL.

2000-2006. Associate Professor, Center for Environmental Diagnostics and Bioremediation and Department of Biology. University of West Florida, Pensacola, FL.

1997-2000. Assistant Professor, Center for Environmental Diagnostics and Bioremediation and Department of Biology. University of West Florida, Pensacola, FL.

1991-97. Research Assistant Professor, Center for Environmental Diagnostics and Bioremediation. University of West Florida, Pensacola, FL.

1991. Senior Project Microbiologist, Technical Resources, Inc. U.S. Environmental Protection Agency, Environmental Research Laboratory, Gulf Breeze, FL.

1990-1. Project Microbiologist, Technical Resources, Inc. U.S. Environmental Protection Agency, Environmental Research Laboratory, Gulf Breeze, FL.

1989-90. National Research Council Post-Doctoral Fellow. U.S. Environmental Protection Agency, Environmental Research Laboratory, Gulf Breeze, FL.

1989. Project Microbiologist, Technical Resources, Inc. U.S. Environmental Protection Agency, Environmental Research Laboratory, Gulf Breeze, FL.

**GRANTS AND CONTRACTS** -AWARDED

National Science Foundation. *Collaborative Research:* *Gas Hydrate Contribution to the Ross Sea Carbon Budget; Shallow Sediment to Water Column; Present and Future*. Co-principal Investigator. 10/1/2021 – 8/31/2024. $249,597. (Total Project Budget: $1,717,573).

National Science Foundation. *Collaborative Research: Diversity and ecological impacts of Antarctic mixotrophic phytoplankton*. Supplemental Funding. Co-principal Investigator. 9/1/2021 – 8/31/2022. $35,237.

Escambia County, Florida. *Escambia County Aquatic Bacteria Survey*. Co-Investigator. 1/13/2019 – 8/31/2020. $60,000

National Park Service. *CESU - Amphibian Monitoring at Gulf Islands National Seashore Florida Unit*. Principal Investigator. 9/15/19 – 9/14/24. $86,530

Cobalt Intelligence, LLC. *Artificial reef design*. Co-principal Investigator. 10/22/2018 – 4/21/2019. $53,758.

National Science Foundation. *Collaborative Research: Diversity and ecological impacts of Antarctic mixotrophic phytoplankton*. Co-principal Investigator. 9/1/2018 – 8/31/2021. $180,000 (Total project budget $800,000).

Clough Family Foundation. *Antarctic Microbial Ecology.* Principal Investigator. 2018. $5000.

Gulf of Mexico Research Initiative. *Center for integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE III)*. Co-principal Investigator. 1/1/2018 – 12/31/2020. $42,000 (Total project budget $5,100,000).

L’Université Pierre et Marie CURIE (UPMC) Observatoire Océanologique de Banyuls, Banyuls-sur-Mer, France. Visiting Professorship. 2017. $5000.

University of West Florida, Center for Research and Economic Development and Office of Research and Sponsored Programs. *Solar radiometers and Ultra-low Freezer. Equipment Grant*. Principal Investigator. $51,799. April 2017.

University of West Florida, Center for Research and Economic Development and Hal Marcus College of Science and Engineering. *Epifluorescence Microscope and Image Analysis System and Superspeed Centrifuge. Equipment Grant*. Principal Investigator. $91,141.34. Nov. 2016.

Clough Family Foundation. *Extremophilic microbial communities of the Chilean Altiplano.* Principal Investigator. 2015. $5000.

University of West Florida, Center for Research and Economic Development and College of Science and Engineering. *Capital Equipment Grant*. Principal Investigator. $144,735.80. Nov. 2015.

Centro de Instruccion y Capacitacion Maritima de Chile. *Acoplamiento de las propiedades bio-ópticas y la historia fotobiológica en la productividad microbiana (Eubacteria, Arquea y pico-fitoplancton) desde el continente hacia del Giro del Pacífico sur*. Co-Investigator. 10/1/15-9/30/16. ~$20,000.

National High Magnetic Field Laboratory, Florida State University. *ICRMS analysis of Weathered Surrogate Oil and Various Water Accommodated Fractions*. Co- Principal Investigator. 9/1/2015 – 12/31/16. Facilities usage.

Gulf of Mexico Research Initiative. *Center for integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE II)*. Co-principal Investigator. 1/1/2015 – 12/31/2017. $231,000 (Total project budget $22,200,000).

Clough Family Foundation. *Photobiology of Atacama Desert Microbial Communities.* Principal Investigator. 2014. $5000.

University of West Florida. Faculty Scholarly and Creative Activity Award. *The microbial ecology of Chilean fiords.* Principal Investigator. 2014. $2000.

National Fund for Scientific & Technological Development (FONDOCYT), Chile. *The rare biosphere in high altitude wetlands: functional role and the limits of life*. Co-Investigator. 2013 – 2015. $350,000.

Clough Family Foundation. *Microbial Diversity Projects.* Principal Investigator. 2013. $5000.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Development of research projects in the Atacama Desert, Chile.* Principal Investigator. 2013. $2000.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Final Malina Research Meeting.* Principal Investigator. 2012. $2000.

Gulf of Mexico Research Initiative. *Deep-C: Deep sea to coast connectivity in the eastern Gulf of Mexico.* Co-Investigator. 10/1/2011 – 12/30/2015. $1,081,531. (Total project budget $21,000,000).

Gulf of Mexico Research Initiative. *Center for integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE)*. Co-principal Investigator. 10/1/2011 – 9/30/2015. $506,000 (Total project budget $11,000,000).

Clough Family Foundation. *The effects of oil on microbial communities.* Principal Investigator. 2011. $5000.

Florida Institute of Oceanography. *Introduction to Oceanography 3008*. Principal Investigator. Shiptime Award. 2011. $21,600.

Florida Institute of Oceanography. *Uncoupling of autotrophy and heterotrophy: effects of the Deepwater Horizon Oil Spill on microbial food webs.* Principal Investigator. 10/1/2010 – 9/30/2011. $215,019.

University of West Florida. Faculty Scholarly and Creative Activity Award. *The effects of ocean acidification on marine heterotrophic bacterial production.* Principal Investigator. 2010. $2000.

Florida Institute of Oceanography. *Introduction to Oceanography 3008*. Principal Investigator. Shiptime Award. 2010. $21,600.

Université Paris VI. Observatoire Océanologique de Banyuls, Banyuls-sur-Mer, France. Visiting Professorship. 2010. $5000.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Development of Arctic Research Projects: Participation in the Malina oceanographic cruise.* Principal Investigator. 2009. $2000.

Merck Institute for Science Education and the American Association for the Advancement of Science. *Merck/AAAS Undergraduate Science Research Program*. Co-Principal Investigator. 5/1/09 – 6/30/16. $120,000.

Florida Institute of Oceanography. *Survey of Oceanography field sampling*. Principal Investigator. Shiptime Award. 2008. $8,800.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Interactive effects of ultraviolet radiation and climate change parameters on marine bacterioplankton production.* Principal Investigator. 2008. $2000.

Florida Sea Grant. *Preliminary data analysis to test land-use influence on red tide in Choctawhatchee Bay, Florida.* Co-principal Investigator. 2008. $3500.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Field experiments to examine the uptake by bacterioplankton of carbon released by phytoplankton during high light conditions.* Principal Investigator. 2007. $2000.

University of West Florida. University Summer Research Award. *Bacterioplankton uptake of carbon released by phytoplankton during high light conditions.* Principal Investigator. 2007. $6,750.

U.S. EPA.  *Science Training in Ecology Program II.* Principal Investigator. 1/1/07- 12/31/09. $150,000.

Florida Institute of Oceanography. *Marine Microbiology Laboratory.* Principal Investigator. Shiptime award. 2006. $6,600. (Declined).

University of West Florida. Faculty Scholarly and Creative Activity Award. *Interactions between nutrient availability and the response to ultraviolet radiation in marine bacterioplankton.* Principal Investigator. 2006. $2000.

National Science Foundation. *Interactive Effects of UV and Vertical Mixing on Phytoplankton and Bacterial Productivity of Ross Sea Phaeocystis Blooms.* Supplemental Funding. 9/1/05 – 8/31/06. Principal Investigator. $134,999.

University of West Florida. University Summer Research Award. *Preparation of proposals to expand investigations of the effects of ultraviolet radiation on marine microorganisms.* Principal Investigator. 2005. $6,250.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Continued International Research Collaborations with the Laboratoire d'Océanographie Biologique de Banyuls: Nutrient availability and the response to ultraviolet radiation in marine bacterioplankton.* Principal Investigator. 2005. $2000.

Florida Institute of Oceanography. *Biological Oceanography Laboratory.* Principal Investigator. Shiptime award. 2004. $6,600.

Centre National De La Recherche Scientifque. Institut National des Sciences de l'Univers, Département des Sciences de l'Univers.. *Impact du rayonnement solaire ultraviolet sur les bactéries marines : influence du mélange vertical des masses d'eau et des limitations nutritionnelles*. Visiting Research Scientist, Laboratoire d'Océanographie Biologique de Banyuls, France. 4/25/04 – 7/22/04. $8825.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Nutrient availability and the response to ultraviolet radiation in marine bacterioplankton.* Principal Investigator. 2004. $2000.

National Science Foundation Office of International Science and Engineering U.S.-France Cooperative Science Program. *The effect of nutrient limitation on the response of marine bacterioplankton to solar ultraviolet radiation: A comparison between nitrogen and phosphorous limited ecosystems*. Principal Investigator. 2/15/04 – 1/31/07. $18,000.

Florida Institute of Oceanography. *Marine Field Ecology.* Principal Investigator. Shiptime award. 2003. $9,000.

National Science Foundation. *Interactive Effects of UV and Vertical Mixing on Phytoplankton and Bacterial Productivity of Ross Sea Phaeocystis Blooms.* Supplemental Funding *Latitudinal Effects of UVR on Bacterioplankton: POTATOE science of opportunity cruise NBP03-04.*  $7,976.

University of West Florida. University Summer Research Award. *The effects of growth rate and the response to ultraviolet radiation by marine bacterioplankton; preliminary data and proposal preparation*. Principal Investigator. 2003. $6,250.

University of West Florida. Faculty Scholarly and Creative Activity Award. *Development of International Research Collaborations with the Laboratoire d’Oceanographie de Banyuls: Induction of Microbial Community Responses to Ultraviolet Radiation in Marine Ecosystems.* Principal Investigator. 2003. $2000.

Florida Institute of Oceanography. *Marine Field Ecology.* Principal Investigator. Shiptime award. 2003. $8,800.

National Science Foundation. *Interactive Effects of UV and Vertical Mixing on Phytoplankton and Bacterial Productivity of Ross Sea Phaeocystis Blooms.* Supplemental Funding *Latitudinal Effects of UVR on Bacterioplankton: BRIDE OF TABASCO science of opportunity cruise NBP02-05.*  $16,786

National Science Foundation. *Interactive Effects of UV Radiation and Temperature on Pelagic Foodwebs*. Co-Principal Investigator. 9/02/02 - 8/31/07 $263,626 (Total Project budget $2,750,000).

National Science Foundation. *Collaborative Proposal: Interactive Effects of UV and Vertical Mixing on Phytoplankton and Bacterial Productivity of Ross Sea Phaeocystis Blooms .* Co Principal Investigator. 9/1/02 - 8/31/05. $356,109. (Total Project budget $975,350).

Bay Area Resource Commission. *An assessment of the source of human sewage waste input into Coldwater and Pond Creeks*. Co-Principal Investigator. 2002. $18,988.

Florida Institute of Oceanography. *Oceanographic Techniques*. Principal Investigator. Shiptime award. 2002. $6,000.

National Science Foundation. *Ultraviolet radiation induced DNA damage in bacterioplankton in the southern ocean. Supplemental Funding: Summer Research Experience for Undergraduates (REU)*. Principal Investigator. 2001. $5,000.

University of West Florida. University Summer Research Award. *Spatial Heterogeneity of marine bacterial community structure and function*. Principal Investigator. 2001. $7,500 (declined).

University of West Florida. Faculty Small Grants Award. *Investigation of molecular diversity of important functional genes in marine bacteria*. Principal Investigator. 2001. $2000.

National Science Foundation: *LexEn Collaborative research: Glacial “hitchhiking:” A mechanism for bacterial speciation in an extremely cold environment*. Co-Principal Investigator. 10/1/00 - 9/30/03. $138,459. (Total project budget: $500,000).

Florida Institute of Oceanography. *Oceanographic Techniques.* Principal Investigator. Shiptime award. 2001. $6,000.

Florida Institute of Oceanography. *Biological Oceanography Sampling Methodologies*. Principal Investigator. Shiptime award. 2000. $8,000.

National Science Foundation. *UV effects on marine production by bacteria and phytoplankton: Assessing the impact of UVB.*  Supplemental Funding: *Summer Research Experience for Undergraduates (REU)*. Principal Investigator. 2000. $5000.

National Science Foundation. *Ultraviolet radiation induced DNA damage in bacterioplankton in* *the southern ocean.* Supplemental Funding: *Latitudinal effects of ultraviolet radiation on marine microbial communities and molecular diversity of genes important in biogeochemical cycles.* Principal Investigator: 2000. $12,810.

Florida Institute of Oceanography. *Biological Oceanography Sampling Methodologies*. Principal Investigator. Shiptime award. 1999. $6,000.

National Science Foundation. *UV effects on marine production by bacteria and phytoplankton: Assessing the impact of UVB.* Co-Principal Investigator. 10/1/98 - 9/30/01. $156,697 (Total project budget: $ 335,750).

National Science Foundation.  *Ultraviolet radiation induced DNA damage in bacterioplankton in* *the southern ocean. II*. *Photochemical & trophic interactions and seasonal patterns of UV response.* Principal Investigator. 8/1/98 - 7/31/01. $344,422. (Total project budget: $759,522).

US Environmental Protection Agency. *Science Training in Ecology Program (STEP).*  Project Manager. 3/1/98 - 2/28/01. $898,024.

Florida Institute of Oceanography. *Biological Oceanography Sampling Methodologies*. Principal Investigator. Shiptime award. 1998. $6,000.

Florida Institute of Oceanography. *Biological Oceanography Sampling Methodologies*. Principal Investigator. Shiptime award. 1997. $12,000.

National Oceanographic and Atmospheric Administration National Undersea Research Program. *Ultraviolet radiation induced DNA damage in coral reef microbial communities*. Principal Investigator. 4/1/97 - 3/31/99. $37,876.

Office of Naval Research. *Detection of in situ genetic damage in marine bacteria resulting from introduced xenobiotics*. -Supplimental Funding Principal Investigator. 6/96 - 5/97. $37,118.

Florida Institute of Oceanography. *Ultraviolet radiation effects on coral reef microbial ecology and isolation of algal symbionts bearing protists*. Principal Investigator. Shiptime award. 1995. $8,000.

National Oceanographic and Atmospheric Administration National Undersea Research Program. *Molecular assessment of the effect of ultraviolet radiation on coral reef microbial ecology.* Principal Investigator. 1995. $17,214.

National Science Foundation.  *Ultraviolet radiation induced DNA damage in bacterioplankton in* *the southern ocean*. Principal Investigator. 8/1/95 - 7/31/98. $421,041.

Florida Institute of Oceanography. *Microbial activity patterns in North Florida Coastal Waters and expression of bacterial genes indicative of stress*. Principal Investigator. Shiptime award. 1994. $10,000.

US Environmental Protection Agency. *Bacterial recA gene expression in the marine environment: the effect of ultraviolet ligh*t. Principal Investigator. 10/93-9/97. $468,410.

Office of Naval Research. *Detection of in situ genetic damage in marine bacteria resulting from introduced xenobiotics*. Principal Investigator. 7/93 - 6/97. $307,486.

Florida Institute of Oceanography. *Microbial gene expression, trophic interactions, and nutrient dynamics in the waters of the northeastern Gulf of Mexico*. Principal Investigator. Shiptime award. 1993. $7,200.

National Oceanographic and Atmospheric Administration National Undersea Research Program. *Microbial Community Dynamics in mucus of healthy and stressed corals*. Principal Investigator. 6/92 - 6/93. $7,000.

Florida Institute of Oceanography. *UWF/CEDB Molecular Microbial Ecology Research Initiatives in Oceanography*. Principal Investigator. Shiptime Award. 1992. $10,800.

United States Environmental Protection Agency. Molecular Microbial Ecology Research Program. Principal Investigator. 9/91 - 9/94. $626,159.

PUBLICATIONS

Prousalis, M., M. Schwartz, A. Simmering, E. Neat Headrick, K. Hope, L. Harris, B. Gore, B. Albrecht, J. Caffrey, **W.H. Jeffrey**, and L. Waidner. An investigation of environmental factors on bacterial abundance and activity in a subtropical coastal estuary, Indian Bayou, Santa Rosa County, Florida. *Gulf and Caribbean Research* (submitted).

Potdukhe, T.V., J.M. Caffrey, M. Rothfus, C. E. Daniel, M. Swords, B.B. Albrecht, **W.H. Jeffrey**, and L.A. Waidner. Viable Vibrio vulnificus and parahaemolyticus in the Pensacola and Perdido Bays: Water Column, Sediments, and Invertebrate Biofilms. Frontiers in Marine Science. 8:645755. doi: 10.3389/fmars.2021.645755

Molina, V.,  Y. Eissler, C. Fernández, M. Cornejo, C. Dorador, B.M. Bebout,  **W.H. Jeffrey**, C. Romero, and M. Hengst. 2021. Diel dynamics of active bacteria and archaea and greenhouse gases variability in an extreme high altitude wetland. *Science of the Total Environment* 768: 144370. (doi.org/10.1016/j.sctitotenv.2020144370)

Snyder, R.A., J.A. Moss, L. Santoferrara, M. Head, and **W.H. Jeffrey**. 2021. Ciliate microzooplankton from the Northeastern Gulf of Mexico. *ICES Journal of Marine Science* doi:10.1093/icesjms/fsab002.

Henriksson,N.L., R.A. Snyder,J.A. Moss, and **W.H. Jeffrey**. Bacterial biogeography in the water column and sediments of the Northeastern Gulf of Mexico. *Microbial Ecology* (Submitted).

Massicotte, P.,R. Amon, D. Antoine, P. Archambault, S. Balzano, S. Bélanger, R. Benner, D. Boeuf, A. Bricaud, F. Bruyant, G. Chaillou, M. Chami, B. Charrière, J. Chen, H. Claustre, P. Coupel, N. Delsaut, D. Doxaran, J. Ehn, C. Fichot, M.H. Foget, P. Fu, J. Gagnon, N. Garcia, B. Gasser, J-F. Ghiglione, G. Gorsky, M. Gosselin, P. Gourvil, Y. Gratton, P. Guillot, H.J. Heipieper, S. Heussner, S. Hooker, Y. Huot, V. Jacq, C. Jeanthon, **W.H. Jeffrey**, F. Joux, K. Kawamura, B. Lansard, E. Leymarie, H. Link, C. Lovejoy, C. Marec, D. Marie, J. Martin, G. Massé, A. Matsuoka, V. McKague, A. Mignot, W.L. Miller, J-C. Miquel, A. Mucci, K. Ono, E. Ortega, C. Panagiotopoulos, T. Papakyriakou, J. Para, M. Picheral, D. Piepenburg, L. Prieur, P. Raimbault, J. Ras, R.A. Reynolds, A. Rochpn, J-F. Rontani, C. Schmechtig, S. Schmidt, R. Sempéré, Y. Shen, G. Song, D. Stramski, G.D. Stroud, E. Tachibana, A. Thirouard, I. Tolosa, J-E. Tremblay, M. Vaïtilingom, D. Vaulot, F. Vaultier, J.K. Volkman, J. Vonk, H. Xie, G. Zheng, and M. Babin. 2021. The Malina oceanographic expedition (2009): How do changes in ice cover, permafrost and UV radiation impact on biodiversity and biogeochemical fluxes in the Arctic Ocean.*Earth Syst. Sci. Data* 13: 1561- 1592. <https://doi.org/10.17882/75345>

Pérez, V., J. Cortés, F. Marchant, C. Dorador, V. Molina, M. Cornejo, K. Hernández, **W.H. Jeffrey**, S. Barahona, and M.B. Hengst. 2020. Aquatic thermal reservoirs of microbial life in an extremely high-altitude geothermal system. *Microorganisms* 8, 208; doi:10.3390/microorganisms8020208

Cesbron,F., M. Ederington-Hagy, **W.H. Jeffrey**, M. Murrell, W.F. Patterson III, J.M. Caffrey. 2019. Pelagic and benthic coupling in the shallow Northeastern Gulf of Mexico shelf. *Continental Shelf Research* 179: 105-114.

Moss, J.A., N. Henriksson, J.D. Pakulski, R.A. Snyder, and **W.H. Jeffrey**. 2019. Oceanic microplankton do not adhere to the latitudinal diversity gradient. *Microbial Ecology* 79: 511-515. doi.org/10.1007/s00248-019-01413-8

Horak,R.E.A., W. Qin, A. Bertagnolli, A. Nelson, K. Heal, H. Han, M. Heller, A. Schauer, **W.H. Jeffrey**, E.V. Armbrust, J.W. Moffett, A.E. Ingalls, D.A. Stahl, and A.H. Devol. 2017. Influence of light and temperature upon ammonia oxidation activity in marine *Thaumarchaeota* in the North Pacific Ocean. *Limnology and Oceanography* doi:10.1002/lno.10665

Pérez, V., M. Hengst, L. Kurte, C. Dorador, **W.H. Jeffrey**, R. Wattiez, S. Matallana-Surget. 2017. Adaptation to Extreme UV Radiation: A comparative proteomics study of *Rhodobacter* sp, isolated from high altitude wetlands in Chile. *Frontiers in Microbiology*. 8:1173 doi: 10.3389/fmicb.2017.01173.

Nienow, J.A., R.A. Snyder, **W.H. Jeffrey**, and S. Wise, Jr. 2016. Fine Structure and ecology of *Nanoneis longta* in the northeastern Gulf of Mexico with a revised definition of the species. *Diatom Research* 32:43-58*.* doi.org/10.1080/0269249X.2016.1268978.

Hernández, K., B. Yannicelli, L.M. Olsen, C. Dorador, R. Menschel, V. Molina, F. Remonsellez, and **W.H. Jeffrey.** 2016. Microbial Activity Response to Solar Radiation across Contrasting Environmental Conditions in Salar de Huasco, Northern Chilean Altiplano. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2016.01857

Moss, J.A., C. McCurry, P. Schwing, **W.H. Jeffrey**, I.C. Romero, D.J. Hollander, and R.A. Snyder. 2016. Molecular characterization of benthic foraminifera communities from the Northeastern Gulf of Mexico shelf and slope following the Deepwater Horizon Event. *Deep Sea Research I* 115: 1-9.

Vaughan, P.A., T. Wilson, R. Kamerman, M. Ederington-Hagy, A. McKenna, H. Chen, and **W.H. Jeffrey**. 2016. Photochemical Changes in Water Accommodated Fractions of MC252 and Surrogate Oil Created during Solar Exposure as determined by FT-ICRMS. *Marine Pollution Bulletin* 104: 262-268. DOI:10.1016/j.marpolbul.2016.01.012

Billerbeck, S., B. Wemheuer, S. Voget, A. Poehlein, H-A. Giebel, T. Brinkhoff, L. Gram, **W.H. Jeffrey**, R. Daniel, and M. Simon. 2016. CHAB-I-5: Biogeography and environmental genomics of the pelagic *Roseobacter* lineage CHAB-I-5. *Nature Microbiology.* doi:10.1038/nmicrobiol.2016.63.

Moss, J.A., C. McCurry, S. Tominack, I.C. Romero, D. Hollander, **W.H. Jeffrey**, and R.A. Snyder. 2015. Ciliate protists from the sediment-water interface in the Northeastern Gulf of Mexico. *Deep Sea Research I* 106: 85-96.

Sanders,, R.W., S.L. Cooke, J.M. Fischer, S.B. Fey, A.W. Heinze, **W.H. Jeffrey**, A.L. Macaluso, R.E. Moeller, D.P. Morris, P.J. Neale, M. Olson, J.D. Pakulski, J.A. Porter, D.M. Schoener, and C.E. Williamson. Shifts in microbial food web structure and productivity after additions of naturally occurring dissolved organic matter: results from large-scale lacustrine mesocosms. *Limnology and Oceanography* 60: 2130-2144.

Cooke, S.L., J.M. Fisher, K. Kessler, C.E. Willaimson, R.W. Sanders, D.P. Morris, J.A. Porter, **W.H. Jeffrey**, S.B. DeVaul, and J.D. Pakulski. 2015. Direct and indirect effects of chromophoric dissolved organic matter additions on zooplankton in an oligotrophic lake. *Freshwater Biology* 60: 2362-2378

Walsh, J.J., J.M. Lenes, B.P. Darrow, A.A. Parks, R.H. Weisberg, L. Zheng, C. Hu, B.B. Barnes, K.L. Daly, S-I. Shin, G.R. Brooks, **W.H. Jeffrey**, R.A. Snyder, and D. Hollander. 2015. A simulation analysis of the plankton fate of the *Deepwater Horizon* oil spills. *Continental Shelf Research* 107: 50 - 68.

Cherrier, J., S. Valentine, B, Hamill, **W.H. Jeffrey**, and J.F. Marra. 2015. Light-mediated release of dissolved organic carbon by phytoplankton: implications for carbon cycling. *Journal of Marine Systems* 147: 45-51. DOI: 10.1016/j.jmarsys.2014.02.008.

Snyder, R.A., M. Ederington-Hagy, F. Hileman, J. Moss, L. Amick, R. Carruth, M. Head, J. Marks, J. Nienow, and **W.H. Jeffrey.** 2014.Polycyclic aromatic hydrocarbon concentrations across the Florida Panhandle continental shelf and slope after the BP MC 252 well failure. *Marine Pollution Bulletin* 89: 201-208.

Joye, S., J. Montoya, S. Murawski, T. Özgökmen, T. Wade, R. Montuoro, B Roberts, D. Hollander, **W. H. Jeffrey**, J. Chanton, and C. Wilson. 2014. Fast Action: A Collaborative, Multi-Disciplinary Rapid Response Study of the Hercules Gas Well Blowout. EOS Trans. AGU. 95: (38) 341-342.

Meador, J.A., A.J. Baldwin, J.D. Pakulski, **W.H. Jeffrey**, D.L. Mitchell, and T. Douki. 2014. The significance of the Dewar valence photoisomer as an ultraviolet radiation induced DNA photoproduct in marine microbial communities. *Environmental Microbiology* 16: 1808-1820*.* DOI: 10.1111/1462-2920.12414.

Ortega-Retuerta, E., F. Joux, **W.H. Jeffrey**, and J-F. Ghiglione. 2013. Spatial variability of particle-attached and free-living bacterial diversity in surface waters from the Mackenzie River to the Beaufort Sea (Canadian Arctic). *Biogeosciences* 10: 2747-2759 DOI 10.5194/bg-10-2747-2013.

Forest, A., M. Babin, S. Bélanger, L. Stemmann, M. Picheral, M. Sampei, L. Fortier, Y. Gratton, E. Devred, P.j. Sahlin, D. Doxaran, F. Joux, Eva Ortega-Retuerta, **W.H. Jeffrey**, J. Martin, B. Gasser, J.C. Miquel. 2013. Ecosystem function and particle flux dynamics across the Mackenzie Shelf (Beaufort Sea, Arctic Ocean): an integrative analysis of spatial variability and biophysical forcings. *Biogeosciences* 10: 2833-2866, doi:10.5194/bg-10-2833-2013.

Ortega-Retuerta, E., **W.H. Jeffrey**, M. Babin, S. Bélanger, R. Benner, D. Marie, A. Matsuoka,P. Raimbault, and F. Joux. 2012. Carbon fluxes in the Western Arctic Ocean: Patterns and drivers of bacterial abundance, production and respiration on the Beaufort Sea margin. *Biogeosciences* 9: 3679-3692. DOI 10.5194/bg-9-3679-2012

Ortega-Retuerta, E., **W.H. Jeffrey**, J-F. Ghiglione, and F. Joux. 2012. Evidence of heterotrophic prokaryotic activity limitation by nitrogen in the Western Arctic Ocean during summer. *Polar Biology* 35: 785-794. DOI 10.1007/s00300-011-1109-8

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Manuscripts In Preparation

Tominack, S., C. Riesenfeld, J.A. Moss, **W.H. Jeffrey**, and R.A. Snyder. Spatial And Temporal Variations in the Community Structure of Marine Archaea in the Northeastern Gulf of Mexico. (To be submitted to *Limnology and Oceanography*)

Hutcheson, J.M., K.A. Houghton, J.M., R.A. Snyder, and **W.H. Jeffrey**. Bacterioplankton Community Response To Solar Radiation and Crude Oil in the Northeastern Gulf of Mexico (To be submitted to *Microbial Ecology*)

Davis, B., C. Riesenfeld, C. Wallace, R.A. Snyder, **W.H. Jeffrey**, **and** J.E. Lepo**.** Taxonomic and metabolic characterization of bacteria isolated from Gulf of Mexicosediments affected by the Deepwater Horizon oil spill. (To be submitted to *Frontiers in Microbiology*)

Houghton, K.A., J. Hutcheson, R.A. Snyder, and **W.H. Jeffrey**. Responses in Bacterioplankton Production and Community Structure after Exposure to Oil And Dispersant in the Northeastern Gulf of Mexico. (To be submitted to *Estuarine and Coastal Shelf Science*)

Pakulski, J.D., A.J Baldwin, J.A. Moss, J.A. Meador, and **W.H. Jeffrey**. Prokaryotic responses to solar radiation along a Pacific basin transect from the Chukchi Sea to the Ross Sea: 70o N to 68o S. (To be submitted to *Photochemistry Photobiology*)

Brock, M.L., R. Richardson, E. de la Torre, M. Ederington-Hagy, R.A. Snyder, and **W.H. Jeffrey**. Seasonal variability of microbial response to crude oil water accommodated fractions. (To be submitted to *PLoS One*).

**INVITED TALKS AND SEMINARS**

**Jeffrey, W.H.**  2021. Antarctica: seasons of water and ice. Pensacola Museum of Art, Pensacola, FL. April 1.

**Jeffrey, W.H.** 2021. Where Art, Science, and Sustainability collide: my ride through extreme environments. University of West Florida, Pensacola, FL. February 26.

**Jeffrey, W.H.** 2021.Overview of the science of climate change from an oceanographer's perspective - working to get past the hype and politics and focus on the science. League of Women Voters, Pensacola, FL. February 20.

**Jeffrey, W.H.** 2020. The Atacama Desert: What’s an oceanographer doing in the driest place on earth. University of West Florida, Pensacola, FL. September 25.

**Jeffrey, W.H.** 2020. Mixotrophy in The Southern Ocean. North Pensacola Rotary Club. Pensacola, FL. March 6.

**Jeffrey, W.H.** 2020. Where Art, Science, and Sustainability collide: my ride through extreme environments. Idyllwild Arts Academy, Idyllwild, CA. February 21.

**Jeffrey, W.H.** 2019. Antarctic Mixotrophy: Eat like a plant**.** Department of Biology, University of West Florida, Pensacola, Florida. September 13.

**Jeffrey, W.H.** 2019. Mixotrophy in The Southern Ocean. Cordova Park Rotary Club. Pensacola, FL. June 20.

**Jeffrey, W.H**., and R. Gast. 2019. Oh the places you’ll go. Research examining Mixotrophic Ecology & Diversity. Palmer Station, Antarctica. May 22.

**Jeffrey, W.H.** 2018. The effects of oil spills on microbial production: Lessons from the Deepwater Horizon and Beyond. Department of Biology, University of West Florida, Pensacola, Florida. March 9.

**Jeffrey, W.H.** 2018. The effects of oil spills on microbial production: Lessons from the Deepwater Horizon and Beyond. Department of Microbiology, Universidad de Barcelona, Barcelona, Spain. February 20.

**Jeffrey, W.H.** 2017**.**  Antarctica: ozone depletion, ultraviolet radiation, and the Pensacola connection. University of West Florida, Pensacola, FL. October 13.

**Jeffrey, W.H.** 2017. The effects of oil spills on microbial production: Lessons from the Deepwater Horizon and Beyond. Department of Biology, Virginia Commonwealth University, Richmond, VA. October 2.

**Jeffrey, W.H.** 2016. Ultraviolet radiation effects on bacterial communities. 1st Workshop de la Red Chilena de Inestigacion Avanzada en Ambientes Extremos UA/UFRO/UMAG. Pucon, Chile. December 2 -3.

**Jeffrey, W.H**., C. Dorador**,** M. Hengst**,** K. Hernández, L. Kurte**,** R. Menschel**,** V. Molina**,** L.M. Nigro, L.M. Olsen**,** F. Remonsellez**,** V. Pérez**,** B. Yannicelli. 2016. Variable effects of solar radiation on the microbial communities of Salar de Huasco. V Workshop CeBiB (Centre for Biotechnology and Bioengineering). Puerto Varas, Chile. November 30 - December 2**.**

**Jeffrey, W.H.** 2016. What’s an oceanographer doing in the driest place on earth? University of West Florida, Pensacola, FL. September 2.

**Jeffrey, W.H**., J.D. Pakulski, R.A. Snyder, and J.A. Moss. 2015. Latitudinal Patterns of Bacterioplankton Diversity in Pacific Ocean Surface Waters from the Arctic to Antarctica. Congreso de Microbiologia de Chile. La Sarena, Chile. December 1 – 4.

**Jeffrey, W.H.**, and K. Hernandez. 2015. *In situ* effects of solar radiation on microbial communities. Understanding the adaptation and role of microbial communities to biogeochemical cycles from diverse aquatic environments Microbial Ecology Workshop. University de Playa Ancha, Valparaiso, Chile. November 5.

**Jeffrey, W.H.,** T. Morrison, P.P. Vaughan, M. Ederington- Hagy, R.A. Snyder, S. Cleveland, L.K. Han, T. Holden, O. Battel, R. Richardson, M. Brock. 2015. The effect of oil spills on marine microbes: the importance of where, when, and how. Annual meeting of the Society for Industrial Microbiology and Biotechnology. Philadelphia, PA. August 2-6.

**Jeffrey, W.H. 2015.** Fire, sun, heat and the effects of Deepwater Horizon oils on microbial production. Texas A&M University – Corpus Christi. Corpus Christi, TX. April 1.

**Jeffrey, W.H.** 2015. Fire, sun, and the effects of Deepwater Horizon oils on marine microbes. The University of West Florida, January 16.

**Jeffrey, W.H.** 2014. Photochemical and pyrogenic changes in Deepwater Horizon Oils and their effects on marine microbial production. US EPA Gulf Ecology Division, Pensacola Beach, Florida. September 24.

**Jeffrey, W.H.** 2014. Does cold ultraviolet radiation affect microbes the same as hot? 16th International congress on photobiology. Cordoba, Argentina. Sept. 8 – 12.

**Jeffrey, W.H.** 2014. Crude oil, sunlight, and fire: Microbial responses to the Deepwater Horizon oil spill. Universidad de Concepcion, Concepcion, Chile. September 1.

**Jeffrey, W.H.** 2014. First hand observations of climate change: The Arctic, Antarctic, and the driest place on earth. Florida Center for Research – Science Technology, Engineering, and Math Annual Meeting. Ft Lauderdale, FL. May 29.

**Jeffrey, W.H.** 2014. The Deepwater Horizon Oil Spill and marine bacteria: It ain’t all biodegradation. Florida Marine Science Educators Association Annual Conference. Panama City Beach, FL. April 26.

**Jeffrey, W.H.** 2014. The Atacama Desert: Hot, cold, dry & salty. The University of West Florida, March 21.

**Jeffrey, W.H.** 2013. Complex interactions of ultraviolet radiation and environmental parameters on microbial production. III Workshop Ecologia microbiana: interacciones y complejidad functional. Universidad de Antofagasta, Antofagasta, Chile. November 12.

**Jeffrey, W.H.** 2013. Shedding some light on the effects of hydrocarbons on microbial growth in the Northern Gulf of Mexico. Pensacola Section of the American Chemical Society, Pensacola, FL. May 16.

**Jeffrey, W.H.** 2013. Shedding some light on the effects of the Deepwater Horizon Oil Spill on Microbial Production: There’s more to it than Biodegradation. The University of Southern Mississippi, Stennis Space Center, MS. April 12.

**Jeffrey, W.H.** 2013. Oil spills and bacteria: Maybe something good, maybe

something bad. The University of West Florida, January 18.

**Jeffrey, W.H.** 2013. The effects of the Deepwater Horizon Oil Spill on Microbial

Production: there’s more to it than biodegradation. The University of Georgia, Athens, GA. January 10.

**Jeffrey, W.H.** 2012. Photochemical and photobiological examination of the effects of MC252 oil and Corexit 9500A on microbial production in surface waters of the Northern Gulf of Mexico. Symposium: UV radiation and marine ecosystems: current research and strategies for the future. Austral Summer Institute XIII. Universidad de Concepcion, Chile. December 5 – 7.

**Jeffrey, W.H.** 2012. Spatial patterns of UV inhibition of bacterial production. Symposium: UV radiation and marine ecosystems: current research and strategies for the future. Austral Summer Institute XIII. Universidad de Concepcion, Chile. December 5 – 7.

**Jeffrey, W.H.** 2012. The Deepwater Horizon Oil Spill: effects on microbial production and carbon flow in the Northern Gulf of Mexico. Université Pierre et Marie Curie (Paris VI), Observatoire Océanologique. Banyuls-sur-Mer, France. October 16.

**Jeffrey, W.H.** 2012. Some might like it cold: Antarctic UV Photobiology. 36th Meeting of the American Society for Photobiology. Montreal, CA, June 23 – 27.

**Jeffrey, W.H.** 2012. The oil spill and microbes – it ain’t all just biodegradation. The University of West Florida, March 16.

**Jeffrey, W.H.** 2012. Part II. The effects of ozone depletion and increased UV on Antarctic Bacterioplankton. The University of West Florida, February 10.

**Jeffrey, W.H.** 2012. Antarctica and ozone depletion: The south pole and the Pensacola connection. The University of West Florida, January 27.

**Jeffrey, W.H.** 2012. Antarctica and ozone depletion: The south pole and the Pensacola connection. Gulf Coast Science Café. Pensacola, FL. January 23.

**Jeffrey, W.H.** 2011. The effects of oil on microbial production in the Northern Gulf of Mexico. Deepwater Horizon Oil Spill Principal Investigator One Year Update Workshop. St. Petersburg, FL. October 25 – 26.

**Jeffrey, W.H.** 2011. From ozone to oil: bacterial production under stress in marine environments. National Science Foundation, Arlington, VA. October 13.

**Jeffrey, W.H.** 2011. Ozone Depletion. NOAA Office of Education/Association of Zoos and Aquarium at the Institute for Marine Mammal Studies- Center for Marine Education and Research Climate Change Workshop. Biloxi, MS. September 30.

**Jeffrey, W.H.** 2011. The effects of oil on microbial processes in the Northern Gulf of Mexico. University of West Florida. September 9.

**Jeffrey, W.H.,** J. Cherrier, A. Chauhan, J. Rosanbaum, and T. Baskerville. 2011. Uncoupling of autotrophy and heterotrophy: effects of the Deepwater Horizon Oil Spill on microbial food webs. Florida Institute of Oceanography, BP Principal Investigator’s meeting, Orlando, FL. May 25-26.

Hollander, D., E. Peebles, J. Paul, B. Flower, P. Coble, R. Weisberg, K. Daly, J. Torres, G. Ellis, E. Goddard, R. Larson, M. Abercrombie, E. Brown, K. Freeman, A. Diefendorf, W. Patterson, **W. H. Jeffrey**, R. Snyder, and G. Brooks. 2011. Fate and Impact of Toxic Oils Released into the Northern Gulf of Mexico: Ongoing Chemical, Biological and Geological Perspectives of the Deepwater Horizon Catastrophe. "Changing Tides" Lecture Series, Smithsonian National Museum of Natural History, Washington D.C. April 19.

Snyder, R.A., and **W.H. Jeffrey**. 2011. Impact of the Deep Horizon Oil Spill on the Northwest Florida Coast. Gulf Coast Ecosystem Restoration Task Force. St. Petersburg, FL. April 8.

**Jeffrey, W.H.** 2011. The University of West Florida’s response to the Deepwater Horizon Oil Spill. Federal Laboratory Consortium Southeast Regional Conference, New Orleans, LA February 8 – 10.

**Jeffrey, W.H.** 2011. Climate Change 101. University of West Florida, January 21.

**Jeffrey, W.H.** 2010. Pole to Pole: How being in the wrong place at the right time can keep you busy. University of West Florida, October 22.

**Jeffrey, W.H.** 2010. From Pensacola to Penguins: 30 years of Antarctic research. Northwest Florida State College. August 27.

**Jeffrey, W.H.** 2010. Climate Change Effects. Leisure Learning Society, University of West Florida, March 4.

**Jeffrey, W.H.** 2010. The effects of ultraviolet radiation on marine bacteria in the Mediterranean Sea. University of West Florida. January 29.

**Jeffrey, W.H.** 2009. Ozone depletion in Antarctica. Keynote Address. COSEE: Central Gulf of Mexico and Southern Association of Marine Educators (SAME) Annual, Two-Day, "Climate Change Through Ocean Literacy" Professional Development Conference for Educators. Niceville, FL November 13-15.

**Jeffrey, W.H.** 2009. The other pole: ozone depletion effects on marine bacteria in Antarctica. University of West Florida. September 25.

**Jeffrey, W.H.** 2009. August in the Arctic: The Malina Project. University of West Florida. September 11.

**Jeffrey, W.H.** 2009. Latest research findings on climate change. Earth Day Symposium. University of West Florida. April 22.

**Jeffrey, W.H.** 2009. When being Bi-Polar is not a bad thing: Arctic and Antarctic research at UWF. University of West Florida. February 27.

**Jeffrey, W.H.** 2008. We're all gonna die! Why you should've taken my Climate Change course. University of West Florida. September 12.

**Jeffrey, W.H.** 2008. Climate Change 101: Facts, Fantasies, and Solutions? Earth Day Symposium. University of West Florida. April 22.

**Jeffrey, W.H.** 2008. Ultraviolet radiation effects on microbial communities in Pocono Mountain Lakes. University of West Florida. March 28.

**Jeffrey, W.H.** 2008. Climate Change 101: Facts, Fantasies, and Solutions? Leisure Learning Lectures. University of West Florida. February 7.

**Jeffrey, W.H.** 2008. An oceanographer’s thoughts on climate change. American Chemical Society, Pensacola Chapter. Pensacola, FL. January 24.

**Jeffrey, W.H.** 2007. Climate change from an oceanographer’s perspective. Special Projects in Liberal Arts, Sciences and Humanities (SPLASH! Downtown) Lecture Series. University of West Florida. October 23.

**Jeffrey, W.H.** 2007. The Effects of Ozone Depletion on Bacterioplankton in Antarctic Waters. The University of West Florida. September 7.

**Jeffrey, W.H.** 2006. Frank Hurley and The Endurance Expedition to Antarctica: Extreme Photography and Historical Documentation. Pensacola Junior College, Pensacola, FL. September 14.

**Jeffrey, W.H.** 2006. From Pensacola to Penguins. The Lacawac Sanctuary. Lake Ariel, PA. June 24.

**Jeffrey, W.H.** 2006. March of the Pensacolians: UWF’s Antarctic Research Program. University of West Florida. March 3.

**Jeffrey, W.H.** 2005. Spatial Patterns of Microbial process in the Pacific Ocean: from the Arctic to Antarctic Circles. Dauphin Island Sea Lab, Univ. of Alabama, Dauphin Island, AL. Sept. 29.

**Jeffrey, W.H.** 2005. Photographer Frank Hurley and The Endurance Expedition to Antarctica: Extreme Photography and Historical Documentation. Pensacola Junior College, Pensacola, FL. September 15.

**Jeffrey, W.H.**, and A.J. Baldwin. 2005. From the Arctic to Antarctic Circles: Are there patterns in Microbial Processes in the Pacific Ocean? Université Pierre et Marie Curie (Paris VI), Observatoire Océanologique. Banyuls-sur-Mer, France. June 16.

**Jeffrey, W.H.** 2005. Ozone depletion, ultraviolet radiation, icebergs, whales, penguins, and bacteria: This must be Antarctica. University of West Florida, April 1.

**Jeffrey, W.H.** 2004. Photographer Frank Hurley and The Endurance Expedition to Antarctica: Extreme Photography and Historical Documentation. Pensacola Junior College, Pensacola, FL. September 9.

**Jeffrey, W.H.** 2004. Spatial variation in ultraviolet radiation effects on marine bacterioplankton. University of West Florida. January 30.

**Jeffrey, W.H.** 2003. Photographer Frank Hurley and The Endurance Expedition to Antarctica. Pensacola Junior College, Pensacola, FL. September 11.

**Jeffrey, W.H.** 2003. Molecular and physiological effects of ultraviolet radiation on marine bacterioplankton. Annual Meeting Amer. Society for Photobiology, Baltimore, MD. July 5-9.

**Jeffrey, W.H.** 2003. Molecular and physiological effects of ultraviolet radiation on marine bacterioplankton. Université Pierre et Marie Curie (Paris VI), Observatoire Océanologique. Banyuls-sur-Mer, France. June 6.

**Jeffrey, W.H.** 2003. The power of partnerships between scientists and educators for promoting ocean science in Florida. Florida Center for Ocean Science Education Excellence (FCOSSEE) Florida Community Building Workshop, Tallahassee, FL. May 17.

**Jeffrey, W.H.** 2003. Molecular and physiological effects of ultraviolet radiation on marine bacterioplankton. University of North Carolina at Wilmington, February20.

**Jeffrey, W.H.** 2003. Molecular and physiological effects of ultraviolet radiation on marine bacterioplankton. Florida A & M University, Tallahassee, FL. February 7.

**Jeffrey, W.H.** 2003. Ultraviolet radiation effects on marine bacteria. University of California – Irvine, Irvine, CA. January 17.

**Jeffrey, W.H.** 2002. Ultraviolet Radiation and Iron: What’s TABASCO got to do with it? University of West Florida, Pensacola, FL. September 16.

**Jeffrey, W.H.** 2002. Spatial and temporal variation in bacterioplankton response to ultraviolet radiation. Annual Meeting Amer. Soc. for Photobiology, Quebec City, Canada. July 13-17.

**Jeffrey, W.H.** 2001. Ozone Depletion and Ultraviolet radiation: From Antarctica to Pensacola. University of West Florida, Pensacola, FL. September 28.

**Jeffrey, W.H.** 2001. Variations in microbial community response to ultraviolet radiation. Dauphin Island Sea Lab, Univ. of Alabama, Dauphin Island, AL. August 7.

**Jeffrey, W.H.** 2001. Ultraviolet Radiation Effects On Marine Bacterioplankton: DNA Damage and Changes in Community Structure and Function. US EPA EMAP Symposium 2001: Coastal Monitoring through Partnerships. Pensacola Beach, FL. April 25.

**Jeffrey, W.H.** 2000. Microbial community response to ultraviolet radiation in marine environments. College of Marine Studies, University of Delaware, Lewes, DE. Nov. 14.

**Jeffrey, W.H.** 2000. Microbial community response to UVR. Pocono Comparative Lakes Program Annual Meeting, Lehigh University, Bethlehem, PA. October 14.

**Jeffrey, W.H.** 2000. Antarctica, ozone depletion, and ultraviolet radiation; why we should care in Pensacola. Department of Biology, University of West Florida, Pensacola, FL. April 14.

**Jeffrey, W.H.** 2000. Molecular approaches to the study ultraviolet radiation effects on marine ecosystems. Institute of Marine Science, Univ. of North Carolina, Morehead City, NC. March 24.

**Jeffrey, W.H.** 2000. Molecular approaches to the study ultraviolet radiation effects on marine ecosystems. Department of Marine Science, Univ. of North Carolina, Chapel Hill, NC. March 23.

**Jeffrey, W.H.** 1999.The effects of ozone depletion and ultraviolet radiation on marine bacterioplankton. University of Tennessee, Knoxville, TN. November 8.

**Jeffrey, W.H.** 1999. Molecular analysis of Ozone depletion and UVB effects in the marine environment. Gordon Research Conference, Applied and Environmental Microbiology. New London, CT. July 3-8.

**Jeffrey, W.H.** 1999. Ecological impacts of ultraviolet radiation on marine bacterioplankton. Rutgers University, New Brunswick, NJ. April 8.

**Jeffrey, W.H.** 1998. Ultraviolet radiation effects on bacteria. American Society for Microbiology Annual Meeting, Atlanta, GA. May 17-21.

**Jeffrey, W.H.** 1998. Environmental regulation: Honorable ideas, difficult decisions. University Spring Honors Symposium, University of West FL. February 25.

**Jeffrey, W.H.** 1998. Ozone depletion and global climate change. Science Seminar for Superior Students. University of West Florida. February 19.

**Jeffrey, W.H.** 1998. Molecular and physiological effects of ultraviolet radiation on marine microbial communities. Dauphin Island Sea Lab, University of South Alabama, Dauphin Island, AL January 22.

**Jeffrey, W.H.** 1997. Molecular and physiological effects of ultraviolet radiation on marine microbial communities. Department of Microbiology, Oklahoma State University. Stillwater, OK November 20.

**Jeffrey, W.H.** 1997. Effects of ultraviolet radiation on microbial communities: Molecular and physiological approaches. Pocono Comparative Lakes Program Annual Meeting, Keynote address. Lehigh University, Bethlehem, PA October 17.

**Jeffrey, W.H.** 1997. Ecological implications of ultraviolet radiation induced DNA damage in marine microbial communities. Dept. of Biology, Univ. West Florida. April 8.

**Jeffrey, W.H.** 1997. Induction of DNA photodamage by ultraviolet radiation in marine microbial communities and impacts on bacterial production. Department of Biology, Virginia Tech, Blacksburg, VA. March 20.

**Jeffrey, W.H.** 1997. Change the world? We already have. Considerations on Global climate change. University Spring Honors Symposium, University of West Florida. March 12.

**Jeffrey, W.H.** 1997. Effects of ultraviolet radiation on marine microbial communities. Department of Marine Science, University of Georgia, Athens, GA. January 22.

**Jeffrey, W.H.,** and D.L. Mitchell. 1996. Induction of DNA photodamage in marine microbial communities by ultraviolet radiation. 12th International Congress on Photobiology, Vienna, Austria. September 1-6.

**Jeffrey, W.H.**, and D.L. Mitchell. 1996. Induction of DNA photodamage in marine microbial communities by UV. Amer. Society for Photobiology Annual Meeting, Atlanta, GA. June 16.

**Jeffrey, W.H.**, R. Pledger, P. Aas, and D.L. Mitchell. 1995. Ambient Solar Radiation Induced Photodamage in Marine Bacterioplankton. American Society for Photobiology Annual Meeting, Washington, DC, June 17-22.

**Jeffrey, W.H.**, and D.L. Mitchell. 1995. Ultraviolet radiation induced stress in marine bacterioplankton. EPA Biotechnology and Risk Assessment All Investigators Meeting and Peer Review. Pensacola Beach, FL. June 7-9.

**Jeffrey, W.H.**, D.L. Mitchell, and R.B. Coffin. 1994. Molecular studies of ultraviolet radiation effects on marine bacteria. EPA Biotechnology and Risk Assessment All Investigators Meeting and Peer Review. Baltimore, MD. June 22-24.

**Jeffrey, W.H.**, S. Nazaret, R. Von Haven, and T. Barkay. 1994. Environmental considerations for the expression of novel pathway genes. 7th International Symposium on the genetics of Industrial Microorganisms. Montreal, Canada. June 26 - July 1.

**Jeffrey, W.H.**, S. Nazaret, and T. Barkay. 1994. Detection of mercuric reductase (*merA*) gene expression in the environment. Amer. Soc. Microbiol. Ann. Meeting, Las Vegas, May 24-27.

**Jeffrey, W.H.** 1993. Development of methods to monitor *in situ* gene expression in aquatic environments. EPA Biotechnology and Risk Assessment All Investigators Meeting and Peer Review. Duluth, MN. June 16.

**Jeffrey, W.H.**, S.M. Cuskey, R.B. Coffin, and M. Reagin. 1991. The use of lethal bacterial genes to limit survival of intentionally released genetically engineered microorganisms. EPA Biotech. & Risk Assessment All Investigators Meeting and Peer Review. Washington, D.C. April 12.

**ABSTRACTS**

Ebert, H., R. Gast, JD Grattepanche, L. Harriss, R. Sanders, A. Simmering, and **W.H. Jeffrey**. 2022. Temporal and spatial variability of bacterioplankton community structure along the West Antarctic Peninsula. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, Honolulu, Hawaii. February 27 – March 4.

Harris, L., R. Gast, JD Grattepanche, R. Sanders, A. Simmering, L. Waidner, and **W.H. Jeffrey**. 2022. Spatial and temporal patterns of photoheterotrophic bacteria and 3H-leucine incorporation along the Western Antarctic Peninsula. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, Honolulu, Hawaii. February 27 – March 4.

Grattepanche, J.D., **W.H. Jeffrey**, R. Gast, and R. Sanders. 2022. Diversity of Microbial Eukaryotes in the Southern Ocean. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, Honolulu, Hawaii. February 27 – March 4.

Carnivale, C., J.D. Grattepanche, **W.H. Jeffrey**, R. Gast, and R. Sanders. 2022. Distribution and activity of mixotrophic flagellates along the western Antarctic Peninsula. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, Honolulu, Hawaii. February 27 – March 4.

McNichol, J., Y. Raut, P. Berube, S. Biller, C. Carlson, M. Gradoville, E. Halewood, **W.H. Jeffrey**, J. Moss, A. Rees, G. Tarran, K. Turk-Kubo, J. Zehr, and J. Fuhrman. 2022. Full Community Marker Gene Analysis in the Context of Global Marine Sampling Campaigns. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, Honolulu, Hawaii. February 27 – March 4.

Hengst, M.B., V. Pérez, J. Cortés, S. Cuadros-Orellana, **W.H. Jeffrey**, C. Dorador, V. Molina, Y. Eissler, P. Chester-Paquis, and C. Quevedo. 2021. Linajes basales y metabolismos microbianos ancestrales sustentan los procesos ecológicos en un sistema hidrotermal de altura. Reunión Annual Sociedad de Microbiologia de Chile. SOMICH XLIII.Del 30 Noviembre al 2 Diciembre. Virtual.

Cuadros-Orellana, S., C. Quevedo, M. Hengst ,  V .Pérez , L. Nigro, **W.H. Jeffrey**, Y. Eissler. 2021 Diversidad microbiana en sistemas hidrotermales de un bofedal de altura en Chile: una mirada a lo invisible. Congreso Latinoamericano de Microbiología , Microbiología ambiental e interacción microbiana. Asuncion, Paraguay. 25-28 Augusto.

Gustin, R., C. Hornfeck, S. Mowe, J. Reimer, H. Ebert, E. Headrick, and **W.H. Jeffrey**. 2021. Continuation of Time Series Database for Pensacola Beach Microbial Ecology. University of West Florida Student Symposium. Pensacola, FL. April 15.

Mowe, S., J. Reimer, C. Hornfeck, R. Gustin, H. Ebert, E. Hendrick, and **W.H. Jeffrey**. 2021. Molecular Diversity Time Series Database for Northern Gulf of Mexico. University of West Florida Student Symposium. Pensacola, FL. April 15.

Parker, I., L. Heidenreich, A. Harper, **W.H. Jeffrey**, and P. Benz. 2021. Photochemical hydroxyl radical production in petroleum water accommodated Fractions. University of West Florida Student Symposium. Pensacola, FL. April 15.

Rodriguez, G., L. Waidner, and **W.H. Jeffrey**. 2020. Determining the Variability in Seasonal Abundance of *Vibrio spp.* in the Coastal Waters of Pensacola Beach. University of West Florida Student Symposium. Pensacola, FL. April 16.

Reimer, J., A. Simmering, G. Rodriguez, R. Gustin, C. Hornfeck, L. Hamilton, and **W.H. Jeffrey**. 2020. Continuation of Time Series Database for Pensacola Beach Microbial Ecology. University of West Florida Student Symposium. Pensacola, FL. April 16.

Hope, K., G. Castaing, L. Severson, A. Simmering, L. Harris, **W.H. Jeffrey**, and L. Waidner. 2020. Enumerating new Photoheterotrophy Genes in Polar Regions. University of West Florida Student Symposium. Pensacola, FL. April 16.

Potdukhe, T., C. Daniel, M. Swords, G. Rodriguez, L. Bowman, M. Rothfus, **W.H. Jeffrey**, J. Caffrey, B. Albrecht, and L. Waidner. 2020. *Vibrio vulnificus* and *Vibrio parahaemolyticus* abundance in water, sediment, and biofilm samples in the Pensacola Bay System. University of West Florida Student Symposium. Pensacola, FL. April 16.

Matallana-Surget, S., L. Nigro, L. Waidner, J. Werner, P. Lebaron, and **W.H. Jeffrey**. 2020. Comparative metaproteomics to assess environmental changes: The combined effects of oil, sunlight and dispersant on marine microbial communities. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, San Diego, CA. February 16 – 21.

Klein, B., E.L. Headrick, L.M. Nigro, P. Neale, and **W.H. Jeffrey**. 2020. Spatial Variability of Microbial Communities in the Ross Sea, Antarctica. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, San Diego, CA. Feb. 16 – 21.

**Jeffrey, W.H**., L.M. Nigro, M. Ederington-Hagy, A.L. Simmering, and E.L.Headrick. 2020. Comparison of microbial growth and community structure in response to different crude oils with varying photoreactivity. Association for the Sciences of Limnology and Oceanography Ocean Sciences Meeting, San Diego, CA. Feb. 16 – 21.

Heidenreich, L., I. Parker, **W.H. Jeffrey**, P. Benz 1019. Wavelength Dependence Toxicity Using Various Oils. Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA November 13 – 16.

Samborski, K., J. Caffrey, B. Albrecht, E. Neat-Headrick, and **W.H. Jeffrey**. 2019. Nutrient Concentration and Coliform Levels of Post-Rainfall Runoff in Bayou Grande. Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA November 13 – 16.

Hamilton, L., A. Simmering, K. Samborski, E. Neat-Headrick, L. Harris, and **W.H. Jeffrey**. 2019. Continuation of the Seasonal Study of the Microbial Community at Pensacola Beach. Hal Marcus College of Science and Engineering Summer Student Symposium, The University of West Florida. Pensacola, FL. August 9.

Simmering, A.L., L.M. Nigro, E.L. Neat-Headrick, M. Ederington-Hagy, M.L. Brock, and **W.H. Jeffrey**. 2019. Temporal Variability of the Microbial Ecology in the Coastal Waters of Pensacola Beach, Florida. Coastal and Estuarine Research Federation (CERF) 25th Biannual Meeting. Mobile, AL. Nov. 3-7.

Neat-Headrick, E., L.M. Nigro, M. Ederington-Hagy, A.L. Simmering, and **W.H. Jeffrey**. 2019. Bacterial Responses to Different Crude Oils under Varying Solar Exposure. Coastal and Estuarine Research Federation (CERF) 25th Biannual Meeting. Mobile, AL. Nov. 3-7.

Prousalis, M., M. Schwartz, A.L. Simmering, E. Neat-Headrick, K. Hope, L. Harris, B. Gore, J.C. Caffrey, **W.H. Jeffrey**, and L.A. Waidner. 2018. The Regulation of Bacterial Activity and Abundance by Environmental Parameters within a Subtropical Coastal Estuary. Coastal and Estuarine Research Federation (CERF) 25th Biannual Meeting. Mobile, AL. Nov. 3-7.

**Hengst, M.B., J. Cortés, V. Pérez, W.H. Jeffrey, V. Molina, E. Neat, V. Alcayaga, S. Cuadros, Y. Eissler, and C. Dorador. 2019. Thermophilic and Thermotolerant Microorganisms Cohabit in Extreme Geochemical Gradients. ISME Latin America. Valparaiso, Chile. September 11 – 13.**

Heidenreich, L., I. Parker, **W.H. Jeffrey**, P. Benz 1019. Wavelength Dependence Toxicity Using Various Oils. Hal Marcus College of Science and Engineering Summer Undergraduate Research Program Symposium. The University of West Florida. Pensacola, FL. August 9.

Samborski, K., J. Caffrey, B. Albrecht, E. Neat-Headrick, and **W.H. Jeffrey**. 2019. Nutrient Concentration and Coliform Levels of Post-Rainfall Runoff in Bayou Grande. Hal Marcus College of Science and Engineering Summer Undergraduate Research Program Symposium. The University of West Florida. Pensacola, FL. August 9.

**Jeffrey, W.H**., E.L. Neat-Headrick, C. Dorador, and M. Hengst. 2019. Interactive effects of ultraviolet radiation and temperature on bacterial production at the Lirima thermal springs in the Chilean Altiplano. FEMS 2019. 8th Congress of European Microbiologists, Glasgow, Scotland. July 7 – 11.

Simmering, A.L., L.M. Nigro, E.L. Neat-Headrick, M. Ederington-Hagy, M.L. Brock, and **W.H. Jeffrey**. 2019. Temporal Variability of the Microbial Ecology in the Coastal Waters of Pensacola Beach, Florida. FEMS 2019. 8th Congress of European Microbiologists, Glasgow, Scotland. July 7 – 11.

Gore, B., J. Giraldo, K. Smyth, F. Cesbron, **W.H. Jeffrey**, W. Patterson, and J. Caffrey. 2019. Response of Microbial Processes Following Deployment of Artificial Reefs in the Northeast Gulf of Mexico. University of West Florida Student Symposium, Pensacola, FL April 18.

Klein, B., L. Nigro, and **W.H. Jeffrey**. 2019. Spatial Variability of the Microbial Community Structure in the Ross Sea, Antarctica. University of West Florida Student Symposium, Pensacola, FL April 18.

Ngalame, J., M. Prousalis, E. Neat, J.Caffrey, **W.H. Jeffrey**, and L. Waidner. 2019. The abundance of *Vibrio vulnificus* in Indian Bayou*,*a Subtropical Coastal Estuary. University of West Florida Student Symposium, Pensacola, FL April 18.

Prousalis, M., A. Simmering, E. Neat, K. Hope, L. Harris, B. Gore, **W.H. Jeffrey**, M. Schwartz, and L. Waidner. 2019. The Regulation of Bacterial Activity and Abundance by Environmental Parameters within a Subtropical Coastal Estuary. University of West Florida Student Symposium, Pensacola, FL April 18.

Neat-Headrick, E., L.M. Nigro, M. Ederington-Hagy, A.L. Simmering, and **W.H. Jeffrey**. 2019. Bacterial Responses to Different Crude Oils under Varying Solar Exposure. Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA. Feb. 4-7.

Daniel, C., J. Caffrey, M. Ederington-Hagy, B. Albrecht, **W.H. Jeffrey**, and L. Waidner. 2018. Proteorhodopsin bacteria ad aerobic anoxygenic phototrophic bacteria abundance in the Pensacola Bay System. Bays and Bayous Symposium. Mobile, AL. November 28-29.

Caffrey, J.M, F. Cesbron, M.C. Murrell, M. Ederington Hagy, **W.H. Jeffrey**, W.F. Patterson III. 2018. Patterns in phytoplankton and benthic production on the shallow continental shelf in the Northeastern Gulf of Mexico. Gulf Estuarine Research Society Biannual Meeting. Galveston, TX. November 8-10.

Caffrey, J.M, F. Cesbron, M.C. Murrell, M. Ederington Hagy, **W.H. Jeffrey**, W.F. Patterson III. 2018. Patterns in phytoplankton and benthic production on the shallow continental shelf in the Northeastern Gulf of Mexico. Bays and Bayous Symposium. Mobile, AL. November 28-29.

Neat-Headrick, E., L.M. Nigro, M. Ederington-Hagy, A.L. Simmering, and **W.H. Jeffrey**. 2018. Bacterial Responses to Different Crude Oils under Varying Solar Exposure. Florida Branch of the American Society for Microbiology Annual Meeting. Orlando, FL. October 19-21.

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Hengst, Martha, Johanna Cortés, Vilma Pérez, Verónica Molina, Yohanna Eissler, **Wade Jeffrey**, Lisa Nigro, and Cristina Dorador. 2018. Mechanisms and strategies to thrive in thermal environments of high altitude: a Pandora's box. International Society for Microbial Ecology ISME17. Leipzig, Germany. August 12 – 17.

Barker, E.M., M. Ederington-Hagy, and **W.H. Jeffrey**. 2018. The effect of sunscreen active ingredients on bacterioplankton production: The importance of photochemistry. Hal Marcus College of Science and Engineering Summer Student Symposium, The University of West Florida. Pensacola, FL. August 9.

Snyder, R.A., J.A. Moss., L. Santoferra, M. Head, and **W.H. Jeffrey**. 2018. Ciliate microzooplankton from the Northeastern Gulf of Mexico. Joint Meeting of the Phycological Society of America and International Society of Protistologists. Vancouver, BC Canada. July 29 – August 2.

Neat, E.L., S. Zarn, M. Ederington-Hagy, and **W.H. Jeffrey.** 2018.Comparison of microbial response to different crude oils with varying phototoxicity. University of West Florida Student Scholars Symposium. Pensacola, FL. April 19.

Simmering, A.L., M. Ederington-Hagy, L.M. Nigro, and **W.H. Jeffrey**. 2018. Disturbance and recovery period of Pensacola Beach marine microbial ecology due to Hurricane Nate. University of West Florida Student Scholars Symposium. Pensacola, FL. April 19.

Post, E., M. Seivert, **W.H. Jeffrey**, P. (Vaughan) Benz. 2018. Effects of Burning and Photochemical Degradation of Surrogate Oil as a Function of Chemical Characterization (determined by FT-ICR MS) and Biological Toxicity. Student University of West Florida Student Scholars Symposium. Pensacola, FL. April 19.

Bann, P., S. Bifulco, C. Brannnon, L. Reid, B. Farran, **W.H. Jeffrey**, A. McKenna, C. Davis, P. (Vaughan) Benz,. 2018. Biological Toxicity and FT-ICR MS Characterization for Photochemically Degraded Oil/Water Accommodated Fractions as a Function of Wavelength Exposure.  University of West Florida Student Scholars Symposium. Pensacola, FL. April 19.

Brannnon, C., P. Bann, S. Bifulco, L. Reid, **W.H.** **Jeffrey**, P. (Vaughan) Benz. 2018. Biological Toxicity of Wavelength Specific Photochemically Degraded Water Accommodated Fractions. University of West Florida Student Scholars Symposium. Pensacola, FL. April 19.

Daniel, C.E., S. Ousley, M. Gossett, M. Hagy, B. Albrecht, C. O'Steen, T. Asmuth, A. Janosik, **W.H. Jeffrey**, and L. Waidner. 2018. Proteorhodopsin Bacteria Abundance in the Pensacola Bay System. University of West Florida Student Scholars Symposium. Pensacola, FL. April 19.

Bann, P., S. Bifulco, C. Brannnon, L. Reid, B. Farran, **W.H. Jeffrey**, A. McKenna, C. Davis, P. (Vaughan) Benz,. 2018. Biological Toxicity and FT-ICR MS Characterization for Photochemically Degraded Oil/Water Accommodated Fractions as a Function of Wavelength Exposure.  253rd ACS National Meeting and Exposition. New Orleans, LA. March 18 – 22. (selected for Sci-Mix, top 10% of undergraduate presentations)

Brannnon, C., P. Bann, S. Bifulco, L. Reid, **W.H.** **Jeffrey**, P. (Vaughan) Benz. 2018. Biological Toxicity of Wavelength Specific Photochemically Degraded Water Accommodated Fractions. 253rd ACS National Meeting and Exposition. New Orleans, LA. March 18 – 22. (selected for Sci-Mix, top 10% of undergraduate presentations)

Post, E., M. Seivert, **W.H. Jeffrey**, P. (Vaughan) Benz. 2018. Effects of Burning and Photochemical Degradation of Surrogate Oil as a Function of Chemical Characterization (determined by FT-ICR MS) and Biological Toxicity.  253rd ACS National Meeting and Exposition. New Orleans, LA. March 18 – 22. (selected for Sci-Mix, top 10% of undergraduate presentations)

Simmering, A.L., M. Ederington-Hagy, L.M. Nigro, and **W.H. Jeffrey**. 2018. Disturbance and recovery period of Pensacola Beach marine microbial ecology due to Hurricane Nate. AGU/ASLO Ocean Sciences Meeting, Portland, OR. Feb. 11 – 16.

Nigro, L., K. Hernandez, B. Yannicelli, N. Sylva, and **W.H. Jeffrey**. 2018. 16S rRNA Gene based Microbial Community Composition Analysis and Productivity Patterns in a Transect from the Humbolt Current System to the Ilands of the South Pacific Gyre. AGU/ASLO Ocean Sciences Meeting, Portland, OR. February 11 – 16.

Neat, E.L., S. Zarn, M. Ederington-Hagy, and **W.H. Jeffrey.** 2018.Comparison of microbial response to different crude oils with varying phototoxicity. AGU/ASLO Ocean Sciences Meeting, Portland, OR. February 11 – 16.

Hernandez Rondon, K., C. Dorador, L. Nigro, **W.H. Jeffrey**, and B. Yannicelli. 2017. Microbial productivity in environmental gradients of Chilean aquatic systems. Microbial ecology of extreme systems symposium. Congreso Chileno de Microbiología. November 14-17, LaSerena, Chile.

**Jeffrey, W.H**., L.M. Nigro, K. Hernandez, B. Valenzuela, M. Hengst, and C. Dorador. 2017. Survey of bacterioplankton response to solar ultraviolet radiation in the Atacama Desert and Chilean Altiplano. 17th Congress of the European Society of Photobiology. Pisa, Italy. September 4 – 8.

Williamson, C.E., G. Dee, M. Olson, W. Palen, A. Clauser, K. Kessler, R.W. Sanders, **W.H. Jeffrey**, E.P. Overholt, and S.J. Connelly. 2017. Insights into the ecology of the invisible: Implications of differential tolerance and repair of UV damage in freshwater organisms. 17th Congress of the European Society of Photobiology. Pisa, Italy. September 4 – 8.

Pérez, V., M. Hengst, L. Kurte, C. Dorador, **W.H. Jeffrey**, R. Wattiez, and S. Matallana Surget. 2017. Adaptation to Extreme UV Radiation Doses: A comparative proteomics study of Rhodobacter sp., isolated from high altitude wetlands in Chile. 17th Congress of the European Society of Photobiology. Pisa, Italy. September 4 – 8.

Snyder, M., M. Overton, **W. H. Jeffrey**, and L. Waidner. 2017. Pensacola Bay and Gulf of Mexico Photoheterotrophy: Bacterial Community Seasonal Shifts and Light-Induced Growth. University of West Florida Summer Undergraduate Research Program (SURP) Symposium. Pensacola, FL. August 11.

Patterson, W., F. Cesbron, K. Brooks, J. Caffrey, and **W.H. Jeffrey**. 2017. Ecosystem responses to the installation of artificial reefs: from phytoplankton to fishes. American Fisheries Society Annual Meeting. Tampa, FL. August 20 – 14.

Zarn, S., E. Neat, M. Ederington-Hagy, and **W.H. Jeffrey**. 2017. Photochemical reactivity of motor oils and their toxicity to marine bacterioplankton. University of West Florida Summer Undergraduate Research Program (SURP) Symposium. Pensacola, FL. August 11.

Moss, Joseph A., Chelsea McCurry, Sarah Tominack, Isabel C. Romero, David Hollander, **Wade H. Jeffrey**, and Richard A. Snyder. 2017. Ciliate protists from the sediment-water interface in the Northeastern Gulf of Mexico. 15th International Congress of Protistology. Prague, Czech Republic. July 30 – August 4.

Moss, Joseph A., Chelsea McCurry, Patrick Schwing, **Wade H. Jeffrey**, I Romero, D. Hollander, and Richard A. Snyder. 2017. Benthic foraminifera from the Northeastern Gulf of Mexico shelf and slope. 15th International Congress of Protistology. Prague, Czech Republic. July 30 – August 4.

Yannicelli, B., K. Hernández, N. Silva, **W.H. Jeffrey**, V. Amaral, L. Bravo, M. Ramos, B. Dewits, E. Navarro, W. Schneider, E. Meerhoff, T. Kiessling, and M. Thiel. 2017. Efecto de la variabilidad oceanográfica de sub-mesoescala en la concentración y producción biológica en aguas oligotróficas del Pacífico Sur. XXXVII Congreso de Ciencias del Mar. Biodiversidad y Conservacion en Sciences del Mar. Valparaiso, Chile. May 23-26.

Daniel, C., M. Ederington-Hagy, **W.H. Jeffrey**, and L. Waidner. 2017. Thompson Bayou Microcosm Experiments: Aerobic Anoxygenic Phototrophic Bacteria Community Shifts Upon Particle Enrichment. UWF Student Scholars Symposium and Faculty Research Showcase, Pensacola, FL. April 20, 2017

Simmering, A., C. Quina, M. Ederington-Hagy, and **W.H. Jeffrey**. 2017. Establishment of a long term database for Pensacola Beach Microbial Ecology. UWF Student Scholars Symposium and Faculty Research Showcase, Pensacola, FL. April 20, 2017

Brannon, C., P. Bann, S. Bifulco, J. Fair, M. Seivert, **W.H. Jeffrey**, and P.P Vaughan. 2017. Fractionation and Biological Toxicity Studies of Crude Oil Water Accommodated Fractions with Dispersant. American Chemical Society National Meeting. San Francisco, CA. April 2 – 6.

Bann, P., S. Bifulco, C. Brannon, J. Fair, M. Seivert, **W.H. Jeffrey**, and P.P Vaughan. 2017. Biological Toxicity of Extracts from Photochemically Degraded Crude Oil Water Accommodated Fractions. American Chemical Society National Meeting. San Francisco, CA. April 2 – 6.

Seivert, M., C.A. Davis, A.M. McKenna, Y.E. Corillo, R.A. Snyder, **W.H. Jeffrey**, and P.P. Vaughan. 2017. FT-ICRMS Analysis of Photochemically Degraded and Burned Surrogate Oil. American Chemical Society National Meeting. San Francisco, CA. April 2 – 6.

Knight, K., J.A. Moss, R.A. Snyder, N. Henriksson, and **W.H. Jeffrey**. 2017. Temporal Changes in Bacterioplankton Community Structure on the Northwest Florida Shelf. The Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting. Honolulu, HI. February 26 – March 3.

Brock, M.L., R. Richardson, E. de la Torre, M. Ederington-Hagy, R.A. Snyder, and **W.H. Jeffrey**. 2017. Seasonal variability of microbial response to crude oil water accommodated fractions. The Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting. Honolulu, HI. February 26 – March 3.

**Jeffrey, W.H.,** J.A. Moss, J.D. Pakulski, and R.A. Snyder. 2017. Microbial Plankton do not follow a Latitudinal Gradient in Diversity. The Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting. Honolulu, HI. February 26 – March 3.

Nigro, L.M., V. Pérez, L. Kurte, C. Dorador, M. Hengst, V. Molina, K. Hernandez, and **W.H. Jeffrey**. 2017. Metagenomic Investigation of Microorganisms Exposed to High Solar Radiation Stress in Salar De Huasco, Chile. The Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting. Honolulu, HI. February 26 – March 3.

Henriksson, N.L., R.A. Synder, J.A. Moss, and **W.H. Jeffrey**. 2017. Microbial Biogeography in the Water Column and Sediments of the Northeastern Gulf of Mexico. The Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting. Honolulu, HI. February 26 – March 3.

Waidner, L., S. Matallana Surget, L. Nigro, P. LeBaron, M. Ederington Hagy, M. Brock, C. Daniel, J. Valek, and **W.H. Jeffrey**. 2017. Aerobic Anoxygenic Phototrophic Bacteria in Coastal Gulf of Mexico Community Shifts Upon Exposure to MC252 Water Accommodated Fraction and Dispersant. The Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting. Honolulu, HI. February 26 – March 3.

Andrews, S., C. Richardson, **W. Jeffrey**, and R. Snyder. 2017. Effects of Macondo 252 crude oil WAF on microplankton. Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA. February 6 – 9.

Bann, P., C. Brannon, **W.H. Jeffrey**, and P.P Vaughan. 2017. Biological Toxicity of Extracts from Photochemically Degraded Water Accommodated Fractions. Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA. February 6 – 9.

**Jeffrey, W.H**., M. Brock, R. Richardson, E. de la Torre, and M. Ederington-Hagy. 2017. Seasonal Variability of Microbial Response to Crude Oil Water Accommodated Fractions. Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA. February 6 – 9.

Pérez, V., L. Kurte, M. Hengst , C. Dorador, **W.H. Jeffrey**, R. Wattiez, S. Matallana-Surget. 2016. Adaptation to Extreme UV Radiation Doses: A comparative proteomics study of *Rhodobacter* sp. isolated from high altitude wetlands in Chile. Congreso de Microbiologia de Chile (SOMICH). Valdivia, Chile. November 22 – 25.

Hernandez, K, B, Yannicelli, **W. Jeffrey**, and N. Silva. 2016. Productividad primaria y secundaria (bacteria vs arquea?) desde el continente hacia el Giro del Pacifico Sue e islas oceanicas. Programa del Taller De Exposición De Resultados Preliminares Del Crucero Cimar 21 “Islas Oceánicas.” Valparaiso, Chile. November 22.

Brock, M., R. Richardson, E. de la Torre, M. Ederington-Hagy, and **W.H. Jeffrey**. 2016. Seasonal variability of microbial response to crude oil water accommodated fractions. Gulf Estuarine Research Society Annual Meeting. Pensacola Beach, FL. Nov. 2-5.

Henriksson, N.L., R.A. Snyder, J.A. Moss, and **W.H. Jeffrey**. 2016. Spatial Distribution and Biogeographical Patterns of Bacteria the Water Column and Sediments of the Northeastern Gulf of Mexico. Gulf Estuarine Research Society Annual Meeting. Pensacola Beach, FL. Nov. 2-5.

Knight, K.T., J.A. Moss, R.A. Snyder, N.L. Henriksson, and **W.H. Jeffrey**. 2016, Temporal Analysis of Bacterioplankton Community Structure in the Northeastern Gulf of Mexico. Gulf Estuarine Research Society Annual Meeting. Pensacola Beach, FL. Nov. 2-5.

Pérez, V., L. Kurte, M. Hengst , C. Dorador, **W.H. Jeffrey**, R. Wattiez, S. Matallana-Surget. 2016. Adaptation to Extreme UV Radiation: A comparative proteomics study of *Rhodobacter* sp, isolated from high altitude wetlands in Chile. International Symposium on Microbial Ecology (ISME). Montreal, Canada. August 21-26.

Brock, M.L., R. Richardson, E. Marshall, S. Solgard, M. Ederington-Hagy, and **W.H. Jeffrey**. 2016. Seasonal Patterns of marine microbes sensitivity to crude oil. University of West Florida Student Research Symposium. Pensacola, FL April 21. Winner of Outstanding Coastal Science Award.

Vaughan, P.P., M.E. Hagy,T. Wilson, R. Kamerman, A. McKenna,H. Chen, and **W.H. Jeffrey**. 2016. Photochemical Changes in Water Accommodated Fractions of MC 252 and Surrogate Oil Created During Solar Exposure as Determined by FT-ICRMS. 251st  ACS National Meeting & Exposition. San Diego, CA. March 13-17.

**Jeffrey, W.H.,** J.A. Moss, J.D. Pakulski, and R.A. Snyder. 2016. Latitudinal Trends in Abundant and Rare Bacterioplankton Community Structure and Diversity in Surface Waters of the Pacific Ocean. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. New Orleans, LA February 21-16.

Henriksson, N.L., R.S. Snyder, J.A. Moss, and **W.H. Jeffrey**. 2016. Spatial Distribution and Biogeographical Patterns of Bacteria the Water Column and Sediments of the Northeastern Gulf of Mexico. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. New Orleans, LA February 21-16.

Knight, K.T., J.A. Moss, R.A. Snyder, N. Henriksson, **W.H. Jeffrey**. 2016. Temporal Analysis of Bacterioplankton Community Structure in the Northeastern Gulf of Mexico. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. New Orleans, LA February 21-16.

Brock, M.L., M. Ederington- Hagy, R.L. Richardson, RA. Snyder, **W.H. Jeffrey**. 2016. The effect of oil spills on marine microbes: the importance of where, when, and how. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. New Orleans, LA February 21-16.

Horak, R., W. Qin, T. Bertagnolli, A. Nelson, **W.H. Jeffrey**, A. Ingalls, D. Stahl, and A. Devol. 2016. Variable Influence of Light on the Activity of Ammonia-Oxidizing *Thaumarchaeota* in the North Pacific Ocean. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. New Orleans, LA February 21-16.

**Jeffrey, W.H.,** M.L. Brock, R.L. Richardson, M. Ederington- Hagy, and R.A. Snyder. 2016. The effect of oil spills on marine microbes: the importance of where, when, and how. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Tampa, FL. February 1-4.

**Jeffrey, W.H.,** T. Morrison, P.P. Vaughan, M. Ederington- **Jeffrey, W.H**., J.D. Pakulski, R.A. Snyder, and J.A. Moss. 2015. Latitudinal Patterns of Bacterioplankton Diversity in Pacific Ocean Surface Waters from the Arctic to Antarctica. Congreso de Microbiologia de Chile (SOMICH). La Sarena, Chile. December 1 – 4.

**Jeffrey, W.H.,** M. Ederington-Hagy, R.A. Snyder, S. Cleveland, L.K. Han, T. Holden, O. Battel, R. Richardson, M. Brock. 2015. The effect of oil spills on marine microbes: the importance of where, when, and how. Annual meeting of the Society for Industrial Microbiology and Biotechnology. Philadelphia, PA. August 2-6.

Vaughan, P.P., **W.H. Jeffrey**, M. Ederington-Hagy T. Wilson, R. Kamerman, , A. McKenna, H. Chen, J.C. Putman, and R. Rodgers. 2015. Photochemical Changes in Water Accommodated Fractions of MC252 and Surrogate Oil Created During Solar Exposure as determined by FT-ICRMS. 10th North American FT MS conference Key West, FL. April 12- 16.

**Jeffrey, W.H**., and M. Overton. 2015. Seasonal Responses of Bacterioplankton to Ultraviolet Radiation in Coastal and Estuarine Waters of Northwest Florida. Association for the Sciences of Limnology and Oceanography, Aquatic Sciences Meeting. Granada, Spain. February 22 -27.

Snyder, R.A., M. Ederington-Hagy, F. Hileman, M. Head, K. Houghton, J. Hutcheson, C. McCurry, J. A. Moss, C. Riesenfeld, S. Tominack, **W.H.Jeffrey**. 2015. Time series PAH concentrations in shoreline mollusks and continental shelf sediments of the Florida Panhandle. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Houston, TX. February 16-19.

Snyder, R.A., J. Moss, C. McCurry, S. Tominack, I.C. Romero, D. Hollander, and **W.H. Jeffrey**. 2015. The Deep-Sea Water-Sediment Interface: Eukaryotic Microbial Communities from the NE Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Houston, TX. February 16-19.

Joux, F., N. Chédri, F-Y. Bouget, P. Schatt, **W.H. Jeffrey**, M. Tedetta, C. Guigue, and M. Goutx. 2015. Toxic effects of crude oil, dispersant and oil-dispersant on the marine microalgae *Ostreococcus tauri* assessed by a luminescent biosensor approach. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Houston, TX. Feb. 16-19.

Vaughan, P.P., **W.H. Jeffrey**, T. Wilson, R. Kamerman, M. Hagy, A. McKenna, H. Chen, and R. Rodgers. 2015. Photochemical Changes in Water Accommodated Fractions of MC252 and Surrogate Oil Created During Solar Exposure as determined by FT-ICRMS. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Houston, TX. February 16-19.

**Jeffrey, W.H**., M. Ederington- Hagy, M. Head, K. Houghton, J. Hutcheson. C. McCurry, J. Moss, C. Reisenfeld, S. Tominack, and R.A. Snyder. 2015. Temporal and Spatial Patterns on The Northwest Florida Shelf: Implications for microbial response to oil spills. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Houston, TX. February 16-19.

Walsh, J.J., J.M. Lenes, B.P. Darrow, A.A. Parks, R.H. Weisburg, L. Zheng, C. Hu, B.B. Barnes, K.L. Daly, G.R. Brooks, **W.H. Jeffrey**, R.A. Snyder, and D.J. Hollander. 2015. A Simulation Analysis of the Plankton Fate of the Deepwater Horizon Oil Spills. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Houston, TX. February 16-19.

Hernández, K., **W.H. Jeffrey**, C. Dorador, L. Olsen, F. Remossellés, V. Molina, and M. Hengts. 2014. Does solar radiation affect evenly microbial activity? 2785 m closer to the stars: Salar de Huasco study case. 16th International congress on photobiology. Cordoba, Argentina. September 8 – 12.

**Jeffrey, W.H.**, T. Morrison, P.P. Vaughan, M. Ederington- Hagy, R.A. Snyder, S. Cleveland, A.M. McKenna, H. Chen, and R.P. Rogers. 2014. Photochemical and pyrogenic changes in Deepwater Horizon Oils and their effects on marine microbial production. 16th International congress on photobiology. Cordoba, Argentina. Sept. 8 – 12.

**Jeffrey, W.H.** 2014. Does cold ultraviolet radiation affect microbes the same as hot? 16th International congress on photobiology. Cordoba, Argentina. September 8 – 12.

Baskerville, T., J. Sarkodee-Adoo, C. Riesenfeld, **W.H. Jeffrey**, A. Chauhan, J. Chanton, and J. Cherrier. 2014. Assessing the Impact of the Deepwater Horizon Oil Spill on Inigenous Bacterial Communities: A Biogeochemical and Molecular Approach. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. Honolulu, HI. February 23 -28.

**Jeffrey, W.H.,** T. Morrison, P.P. Vaughan, M. Ederington-Hagy, R.A. Snyder, A.M. McKenna, H. Chen, and R.P. Rodgers. 2014. The role of Photochemistry in Determining the Effects of MC252 Surrogate Oil on Microbial Growth. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. Honolulu, HI. February 23 -28.

Tominack, S., J.A. Moss, C. Riesenfeld, **W.H. Jeffrey**, and R.A. Snyder. 2014. Spatial and Temporal Variations in the Community Structure of Marine Archaea in the Northeastern Gulf of Mexico. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. Honolulu, HI. February 23 -28.

Houghton, K., J. Hutcheson, J.A. Moss, C. Reisenfeld, R.A. Snyder, and **W.H. Jeffrey**. 2014. Effects of Oil and Dispersants on Bacterioplankton Community Structure and Function using 16S rRNA and alkB genes in the Northeastern Gulf of Mexico. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. Honolulu, HI. February 23 -28.

Hutcheson, J., K. Houghton, J.A. Moss, C. Reisenfeld, R.A. Snyder, and **W.H. Jeffrey**. 2014. Bacterioplankton Community Response to Solar Radiation in the Northeastern Gulf of Mexico. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. Honolulu, HI. February 23 -28.

McCurry, C., J.A. Moss, S. Tominack, **W.H. Jeffrey**, and R.A. Snyder. 2014. Benthic Foraminifera Community Diversity and Distribution in the Northern Gulf of Mexico. Association for the Sciences of Limnology and Oceanography, Ocean Sciences Meeting. Honolulu, HI. February 23 -28.

Moss, J.A., C. McCurry, S. Tominack, **W.H. Jeffrey**, and R.A. Snyder. 2014. Ciliate Microbial Diversity in the Northeast Gulf of Mexico. Association for the Sciences of Limnology & Oceanography, Ocean Sciences Mtg. Honolulu, HI. February 23 -28.

Houghton, K., J. M. Hutcheson, J. A. Moss, C. Reisenfeld, R. A. Snyder, **W.H. Jeffrey**. 2014. Bacterioplankton community structure after exposure to oil and dispersants using 16S rRNA and alkB genes in the northeastern Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

Vaughan, P.P., **W.H. Jeffrey**, M. Ederington-Hagy, H. Chen, A. McKenna, R. Rodgers. 2014. FT-ICRMS Analyses of photochemical changes in water accommodated fractions of MC252 and surrogate oil created during solar exposure. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

Hutcheson, J., K. Houghton, J. Moss, C. Riesenfeld, R.A. Snyder, and **W.H. Jeffrey**. 2014. Combined Effect of Solar Radiation and Crude Oil on Microbial Community Structure in the NE Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

**Jeffrey, W.H.**, T. Morrison, P.P. Vaughan, M. Ederington-Hagy, W. New, G. Battel, R.A. Snyder, A.M. McKenna, H. Chen, and R.P. Rodgers. 2014. Inhibition of Microbial Growth is Dependent on Photochemical Changes in MC252 Water Accommodated Fractions. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

Moss, J.A., C. McCurry, S. Tominack, **W.H. Jeffrey**, and R.A. Snyder. 2014. Ciliate microbial diversity on the Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

Riesenfeld C.S, **W.H. Jeffrey**, B. Davis, W. Overholt, J.E. Kostka, J.E. Lepo J.E., and R.A. Snyder. 2014. Pensacola Beach Surf Zone Microbial Communities Before, During, and After Oil Contamination. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

McCurry, C., J. A. Moss, S. Tominack, **W.H. Jeffrey**, R. A. Snyder. 2014. Benthic foraminifera diversity and distribution in the Gulf of Mexico. Gulf of Mexico deep-sea sediments impacted by the Deepwater Horizon oil spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

Davis, B., C. Wallace, H. Chau, J.A. Moss, C. Riesenfeld, **W.H. Jeffrey**, R.A. Snyder, and J.E. Lepo. 2014. Taxonomic, metabolic, and physiological properties of bacteria from Gulf of Mexico deep-sea sediments impacted by the Deepwater Horizon oil spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference. Mobile, AL January 26-29.

**Jeffrey, W.H.**, and R.A. Snyder. 2013. Considerations on the interactions of microbial ecology and oil on the formation of Marine Snow. Marine Oil Snow Sedimentation & Flocculent Accumulation (MOSSFA) Conference. Tallahassee, FL October 22-23.

Cherrier, J., S. Valentine, **W.H. Jeffrey**, and J. Marra. 2013. Light-Mediated Release of Dissolved Organic Carbon by Phytoplankton: Implications for Carbon Cycling. The 45th International Liège Colloquium. Primary Production in the ocean: from the synoptic to the global scale. Liège, Belgium. May 13 – 17.

Daniel, G., N. Harris, R. Atkinson, R. Pichulo, D. Brankle, J. Trindell, **W.H. Jeffrey**, and P. Vaughan. 2013. Photochemical Degradation and Bacterial Growth Response Crude Oil. Univ. West Florida Student Scholars Symposium. Pensacola, FL April 25.

Atkinson, R. **W.H. Jeffrey**, and P. Vaughan. 2013. Toxicity Effects of Polycyclic Aromatic Hydrocarbons During Varied Sunlight and Temperature Exposure. University of West Florida Student Scholars Symposium. Pensacola, FL April 25.

Pichulo, R., G. Daniel, J. Trindell, R. Atkinson, N. Harris, D. Brankle, **W.H. Jeffrey**, P. Vaughan. 2013. Photochemical Degradation and Bacterial Growth Response Crude Oil. Univ. West Florida Student Scholars Symposium. Pensacola, FL April 25.

Davis, B., **W.H. Jeffrey**, R. Snyder, and J. Lepo. 2013. Petroleum Hydrocarbon-Degrading Bacteria Enriched from Deep-Sea Sediments Associated with the Deepwater Horizon Gulf of Mexico Spill. University of West Florida Student Scholars Symposium. Pensacola, FL April 25.

Tominack, S., C. Reisenfeld, J. Moss, **W.H. Jeffrey**, and R. Snyder. 2013. Spatial and Temporal Variations in the Community Structure of Marine Archaea: The Gulf of Mexico. Univ. West Florida Student Scholars Symposium. Pensacola, FL April 25.

Houghton, K., J. Hutcheson, R. Snyder, C. Reisenfeld, J. Moss, and **W.H. Jeffrey**. 2013. Temporal and spatial responses in bacterioplankton community structure and function after exposure to oil and dispersants in the Northeastern Gulf of Mexico. University of West Florida Student Scholars Symposium. Pensacola, FL April 25. (Awarded Outstanding Graduate STEM Poster)

Shisgal, P.,  R. Snyder, J. Moss, C. Riesenfeld, and **W.H. Jeffrey**. 2013. Ciliate protest community structure in the plankton of the northeastern Gulf of Mexico determined by particle analysis and molecular diagnostics. University of West Florida Student Scholars Symposium. Pensacola, FL April 25.

Hutcheson, J., K. Houghton, R. Snyder, C. Riesenfeld, J. Moss,  and **W.H. Jeffrey**. 2013. Bacterioplankton Community Response to UV Radiation in the Northeastern Gulf of Mexico. University of West Florida Student Scholars Symposium. Pensacola, FL April 25. (Awarded Outstanding Graduate STEM Poster)

Daniel, G., N. Harris, R. Atkinson, R. Pichulo, D. Brankle, J. Trindell, **W.H. Jeffrey**, and P. Vaughan. 2013. Photochemical Degradation and Bacterial Growth Response Crude Oil. 245th Amer. Chemical Society National Meeting, New Orleans, LA. April 7 – 11.

Ortega-Retuerta, E., F. Joux, **W.H. Jeffrey**, and JF Ghiglione. 2013. Spatial variability in attached and free living bacterial diversity in surface water from the MacKenzie River to the Beaufort Sea (Canadian Arctic). Association for the Sciences of Limnology and Oceanography Aquatic Sciences meeting. New Orleans, LA. February 17-22.

Rosanbalm, J., T. Baskerville, J. Cherrier, A. Chauhan, and **W.H.Jeffrey**. 2013. Effects of oil and dispersants on phytoplankton communities in northern Gulf of Mexico estuaries: nutrient and light interactions. Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA. January 21-23.

Riesenfeld, C., J. Moss, S. Tominack, K. Houghton, B. Davis, J. Hutcheson, J. Lepo, **W.H. Jeffrey**, and R.A. Snyder. 2013. Microbial reactivity to water masses in the northeastern Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference. New Orleans, LA. January 21-23.

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Aas, P., **W.H. Jeffrey**, J.D. Pakulski and R.B. Coffin. 1996. Inhibition of Thymidine Incorporation by Bacterioplankton as a Function of Ambient Ultraviolet Radiation During Austral Spring in the Gerlache Strait, Antarctica. American Society for Microbiology Annual Meeting, New Orleans, May 16-20.

**Jeffrey, W.H.**, M.M. Lyons, P. Aas, R.B. Coffin, and D.L. Mitchell. 1996. Depth Profiles of Ultraviolet Radiation Induced DNA Damage in the Microbial Community in Antarctic Waters. Annual Meeting of the Amer. Society for Microbiology, New Orleans, May 16-20.

Wilhelm, S.W., M.G. Weinbauer, D.R. Garza, K.M. Rodda, **W.H. Jeffrey**, and C.A. Suttle. 1996. *In situ* light mediated destruction and repair of viruses in the Gulf of Mexico. American Geophysical Union Ocean Sciences Meeting, San Diego CA, February 12-16. Eos 76 (3, suppl) 208

**Jeffrey, W.H.**, P. Aas, R. Pledger, S. Hager, R. B. Coffin, and D. L. Mitchell. 1995. Ambient Solar Radiation Induced Photodamage In Marine Bacterioplankton. Annual Meeting of the American Society for Photobiology. Washington, DC. June 17 - 22.

Miller, R.V., M. Hamissou, **W.H. Jeffrey**, D.L. Mitchell, and R.B. Coffin. 1995. Correlation of environments. Amer. Soc. for Limnol. Oceanogr., Annual Meeting, Reno, NV. June 11 - 15.

Aas, P. and **W.H. Jeffrey.**  1995. Influence of Ambient Solar Ultraviolet Radiation on Bacterial Productivity In The Northern Gulf Of Mexico. American Society for Limnology and Oceanography Annual Meeting, Reno, NV. June 11 - 15.

fluctuations in bacterial RecA activity with exposure to DNA-damaging stress in aquatic

**Jeffrey, W.H.**, R. Pledger, P. Aas, S. Hager, R. B. Coffin, and D. L. Mitchell. 1995. Diel And Depth Profiles of DNA Photodamage In Bacterioplankton Exposed To Ambient Solar Ultraviolet Radiation. Amer. Soc. Limnol. Oceanogr Annual Mtg., Reno, NV. June 11 - 15.

**Jeffrey, W.H.**, D.L. Mitchell, R. Pledger, and P. Aas. 1995. Ultraviolet Radiation-B Induced Photodamage in Bacterioplankton in the Gulf of Mexico. Annual Meeting of the American Society for Microbiology, Washington, DC. May 21-25.

Hager, S., **W.H. Jeffrey**, D.L. Mitchell, R. Pledger, P. Aas, and G.J. Herndl. 1995. UV-B mediated photodamage of DNA in marine bacterioplankton. International Workshop on Aquatic Microbial Ecology, Konstanz, Germany. April 17-22.

Hoch, M.P., L.A. Cifuentes, **W.H. Jeffrey**, and R.B. Coffin. 1995. Activities of ammonia assimilation enzymes as indicators of the relative supply of nitrogen substrates for marine bacterioplankton in sub-tropical coastal water. International Workshop on Aquatic Microbial Ecology, Konstanz, Germany. April 17-22.

Pledger, R., **W.H. Jeffrey**, A. Mican, and D.L. Mitchell. 1995. Radioimmunoassay as a sensitive tool for measuring specific genotoxic damage in environmental samples. Annual meeting of the Environmental Mutagen Society, St. Louis, MO.

**Jeffrey, W.H.** 1994. Molecular studies of DNA damage in marine bacterioplankton caused by solar ultraviolet radiation. University of South Florida Department of Marine Science Alumni Research Symposium. St. Petersburg, FL. October 27.

Pledger, R., **W.H. Jeffrey**, and D.L. Mitchell. 1994. UVB effects on marine ecosystems: temporal and spatial distribution of UV photodamage in microplankton. Lost Pines Molecular Biology Conference, Smithville, TX. October 21 - 23.

Miller, R.V., **W.H. Jeffrey**, David L. Mitchell, A. Ferrante, M. Hamissou, and R.B. Coffin. 1994. Assessing bacterial RecA activity as a biomarker for environmental DNA-damaging stress. Fallen Leaf Lake Conference on Microbial Ecology and Biological Control. South Lake Tahoe, CA. September 15 - 18.

**Jeffrey, W.H.** 1994. Environmental considerations for the expression of novel pathway genes. 7th International Symposium on the Genetics of Industrial Microorganisms (GIM ‘94), Montreal, CN. June 26 - July 1.

Ammerman, J.W., M.J.D. McRae, E. Bentzen, E.R. Peele, J.B. Cottner, and **W.H. Jeffrey**. 1994. Phosphorous cycling at the Bermuda Time-Series Station: An Overview. Amer. Soc. of Limnology and Oceanography Ocean Sciences Meeting, San Diego, CA. February 21-25.

**Jeffrey, W.H.**, R. Von Haven, and R.B. Coffin. 1994. Fluorometric Determination of Bacterioplankton RNA:DNA Ratios and Comparison to Rates of Thymidine and Leucine Incorporation. American Society of Limnology and Oceanography Ocean Sciences Mtg., San Diego, CA. Feb. 21-25.

Coffin, R.B., **W.H. Jeffrey**, A.A. Ferrante, and R.V. Miller. 1993. Marine bacterial expression of the RecA gene in response to UV light. Amer. Soc. of Limnology & Oceanography and Society of Wetland Scientists Annual Meeting, Edmonton, Alberta, Canada, May 30-June 3.

Ferrante, A.A., R.B. Coffin, and **W.H. Jeffrey,** and R.V. Miller**.** 1993. RecA Protein expression in marine environments. Amer. Soc. Microbio. Annual Meeting, Atlanta, GA. May 16-20.

Santavy, D.L., **W.H. Jeffrey**, and R.A. Snyder. 1993. Changes in microbial community structure and productivity affiliated with the mucus of healthy and stressed corals. Amer. Soc. for Microbiology Annual Meeting, Atlanta, GA. May 16-20.

Nazaret, S., **W.H. Jeffrey**, R. VonHaven, E. Saouter, and T.Barkay. 1993. *Mer* gene expression in aquatic environments. Amer. Soc. Microbio. Annual Meeting, Atlanta, GA. May 16-20.

**Jeffrey, W.H.**, S. Nazaret, and R. Von Haven. 1993. Improved method for the extraction of mRNA from aquatic samples: application to detecting *mer* gene expression. Amer. Society for Microbiology Annual Meeting, Atlanta, GA. May 16-20.

Ammerman, J.W., E.R. Peele, E. Bentzen, J.S. Kim, M.J.D. MacRae, R.H. Sada Ruvalcaba, K. Elardo, and **W.H. Jeffrey**. Microbial phosphorous cycling at the Bermuda Time-Series Station (BATS). 1993. The Oceanography Society, Seattle, WA. April 13-16.

Santavy, D.L., **W.H. Jeffrey**, R.A. Snyder, J. Campbell, P. Malouin, and L. Cole. 1992. Microbial community dynamics in the mucus of healthy and stressed coral hosts. 1992 Symposium on the Florida Keys Regional Ecosystem, Miami, FL. November 16-20.

**Jeffrey**, **W.H.**, R.B. Coffin, and S.M. Cuskey. 1991. Effect of RK2 *kil*A expression on growth of *Pseudomonas aeruginosa* PAO1. Amer. Soc. Microbio. Annual Meeting, Dallas, TX. May 5-9.

**Jeffrey**, **W.H.** 1991. Expression of *Pseudomonas* genes encoding for benzoate catabolism may be regulated by both *ben*R and *xyl*S. Amer. Soc. Microbio. Annual Mtg, Dallas, TX. May 5-9.

**Jeffrey**, **W.H.**, S.M. Cuskey, R.B. Coffin, and M. Reagin. 1991. The use of lethal bacterial genes to limit survival of intentionally released genetically engineered microorganisms. US EPA Risk Assessment All Investigators Meeting, Washington, DC. April 9-11.

**Jeffrey**, **W.H.**, S.M. Cuskey, P.J. Chapman, and R.H. Olsen. 1990. Isolation of a *Pseudomonas* chromosomal DNA fragment able to substitute for TOL plasmid *xylS* regulatory gene. Amer. Soc. for Microbiol. Annual Meeting, Anaheim, CA. May 13-17.

Cuskey, S.M., M. Reagin, **W.H. Jeffrey**, and R.B. Coffin. 1990. Conditional expression of the RK2 *kilA* gene in *Pseudomonas aeruginosa* PAO1 can cause a non-lethal inhibition of growth. Amer. Society for Microbiology Annual Meeting, Anaheim, CA. May 13-17.

**Jeffrey**, **W.H.**, S.M. Cuskey, P.J.Chapman, and R.H. Olsen. 1990. Biochemical and genetic analysis of *Pseudomonas putida* mutants deficient in chromosomally encoded benzoate catabolism. Suncoast Biotech Conference, St. Petersburg, FL. March 29-30.

Paul, J.H., L.H. Cazares, A.W. David, M.F. DeFlaun, **W.H. Jeffrey**, S.L. Pichard, and J.M. Thurmond. 1990. Ecological and genetic significance of extracellular DNA in marine and freshwater environments. European Environmental Research Organization Workshop, Molecular Microbial Ecology, Braunschweig, Federal Republic of Germany. April 28-May 1.

**Jeffrey**, **W.H.**, and J.H. Paul. 1990. Correlation of non-specific labeling with environmental parameters during 3H-thymidine incorporation in the waters of southwest Florida. American Geophysical Union Ocean Sciences Meeting, New Orleans, LA. February 12-16.

**Jeffrey**, **W.H.**, P.J. Chapman, R.H. Olsen, and S.M. Cuskey. 1989. Biochemical and genetic analysis of *Pseudomonas putida* mutants deficient in chromosomally encoded benzoate catabolism. Amer. Soc. for Microbiology Pseudomonas '89 Meeting, Chicago, IL. July 9-13.

**Jeffrey**, **W.H.**, J.H. Paul, and G.J. Stewart. 1989. Natural plasmid transformation of *Vibrio parahaemolyticus* in estuarine sediment microcosms. Amer. Soc. for Microbiol. Annual Meeting, New Orleans, LA. May 14-18.

**Jeffrey**, **W.H.**, and J.H. Paul. 1989. Thymidine kinase activity, thymidine transport and incorporation into DNA in marine bacteria. American Society for Microbiology Annual Meeting, New Orleans, LA. May 14-18.

Paul, J.H., **W.H. Jeffrey**, and M.F. DeFlaun. 1988. The cycling of extracellular DNA in the rivers of southwest Florida. Amer. Soc. for Microb. Annual Mtg., Miami Beach, FL. May 8-13.

**Jeffrey**, **W.H.**, and J.H. Paul. 1988. A direct comparison of 3H-thymidine incorporation with DNA synthesis in aquatic environments. American Society for Microbiology. Annual Meeting, Miami Beach, May 8-13.

**Jeffrey**, **W.H.** 1988. The use of 3H-thymidine incorporation to detect natural transformation in aquatic environments. Department of Marine Science 9th Annual Graduate Student Symposium, University of South Florida, St. Petersburg, FL. April 8.

**Jeffrey**, **W.H.**, J.H. Paul, and G.J. Stewart. 1988. Evidence for bacterial transformation in marine and freshwater environments. Amer. Geophys. Union, New Orleans, LA. January 18-22.

**Jeffrey**, **W.H.**, and J.H. Paul. 1987. Non-specific labeling of macromolecules from incubation with 3H-thymidine. Department of Marine Science 8th Annual Graduate Student Symposium, University of South Florida, St. Petersburg, FL. April 10.

**Jeffrey**, **W.H.**, and J.H. Paul. 1987. Factors affecting non-specific labeling by 3H-thymidine in marine bacteria. Amer. Society for Microbiology Annual Meeting, Atlanta, GA. March 1-6.

**Jeffrey**, **W.H.** 1986. The effects of fluorodeoxyuridine on 3H-thymidine incorporation in estuarine bacteria. Marine Science Department 7th Annual Graduate Student Symposium, University of South Florida, St. Petersburg, FL. April 11.

Paul, J.H., M.F. DeFlaun, and **W.H. Jeffrey**. 1986. Dissolved DNA in estuarine environments: rate of turnover and possible sources. American Society for Microbiology Annual Meeting, Washington, DC. March 23-28.

DeFlaun, M.F., J.H. Paul, and **W.H. Jeffrey**. 1986. Dissolved DNA in the coral reef environment: relation to microbial biomass and activity parameters. American Society for Microbiology Annual Meeting, Washington, DC. March 23-28.

**Jeffrey**, **W.H.**, and J.H. Paul. 1986. The use of a thymidylate synthase inhibitor to block de novo synthesis during 3H-thymidine incorporation in estuarine waters. American Society for Microbiology Annual Meeting, Washington, DC. March 23-28.

Paul, J.H., M.F. DeFlaun, **W.H. Jeffrey**, and D. Davis. 1986. The dynamics of dissolved DNA in aquatic environments. AGU Ocean Sciences Meeting, New Orleans, LA. January 13-17.

DeFlaun, M.F., J.H. Paul, and **W.H. Jeffrey**. 1985. Distribution of dissolved DNA in aquatic environments. Amer. Soc. Microbiol. Ann. Mtg., Florida Branch, Orlando, FL. December 6-7.

**Jeffrey**, **W.H.**, and J.H. Paul. 1985. The activity of marine microfouling bacteria as determined by 3H-thymidine incorporation, INT reduction, and ATP/DNA ratios. American Society for Microbiology Annual Meeting, Florida Branch, Orlando, FL. December 6-7.

DeFlaun, M.F., J.H. Paul, D. Davis, and **W.H. Jeffrey**. 1985. Dissolved DNA in the marine environment: a preliminary study. American Society for Microbiology Annual Meeting., Las Vegas, NV. March 3-7.

Paul, J.H., **W.H. Jeffrey**, and M.F. DeFlaun. 1985. Significance of bacterioplankton in oceanic DNA measurements. Amer. Soc. Microb. Ann. Meeting, Las Vegas, Nevada. March 3-7.

**Jeffrey**, **W.H.**, and J.H. Paul. 1985. The effect of attachment to polystyrene on the activity of marine microfouling bacteria. Amer. Soc. Microb. Ann. Mtg., Las Vegas, Nevada. March 3-7.

DeFlaun, M.F., D. Davis, J.H. Paul, and **W.H. Jeffrey**. 1984. Dissolved DNA in the marine environment: A preliminary study. Amer. Soc. Microb. South East Branch Meeting, Clearwater, FL. October 25-27.

Paul, J.H., and **W.H. Jeffrey**. 1984. Evidence for separate adhesion mechanisms for hydrophobic and hydrophilic substrata in *Vibrio proteolytica*. American Society for Microbiology South East Branch Meeting, Clearwater, FL. October 25-27.

Paul, J.H., **W.H. Jeffrey**, and M.F. DeFlaun. 1984. Significance of bacterioplankton in oceanic DNA measurements. American Society for Microbiology South East Branch Meeting, Clearwater, FL. October 25-27.

**Jeffrey**, **W.H.**, and J.H. Paul. 1984. The use of 3H-thymidine incorporation for measuring the activity of attached and free-living marine bacteria. American Society for Microbiology South East Branch Meeting, Clearwater, FL. October 25-27.

**Jeffrey**, **W.H.**, and J.H. Paul. 1984. Differential DNA synthesis rates of attached and free-living bacteria. Marine Science Department 5th Annual Graduate Student Symposium. University of South Florida, St. Petersburg, FL. April 5-6.

Paul, J.H., and **W.H. Jeffrey**. 1984. Use of photon correlation spectroscopy for sizing estuarine isolates and particulates in seawater. American Geophysical Union Ocean Sciences Meeting, New Orleans, LA. January 23-27.

**Jeffrey**, **W.H.**, and J.H. Paul. 1984. Thymidine incorporation as a measure of the activity of a marine *Vibrio* attached to polystyrene. American Geophysical Union Ocean Sciences Meeting, New Orleans, LA . January 23-27.

**RESEARCH CRUISE EXPERIENCE**

2019 RVIB NATHANIEL B PALMER. 45 Days. Antarctic Peninsula. R. Sanders, Chief Scientist

2019 ASRV LAURENCE M. GOULD. 45 Days. Antarctic Peninsula. C. Amsler, Chief Scientist

2018 RV W.T. HOGARTH, 3 days. NW FL Shelf. Sea Trials, W.H.Jeffrey, Chief Scientist

2014 RV BELLOWS, 2 days. NW FL Shelf. Oil Spill, R.A. Snyder, Chief Scientist

2013 RV BELLOWS, 2 days. NW FL Shelf. Oil Spill, W.H.Jeffrey, Chief Scientist

2013 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, W.H.Jeffrey, Chief Scientist

2013 RV WEATHERBIRD II, 8 days. N. Gulf of Mex. Oil Spill, S. Murowski, Chief Scientist

2013 RV BELLOWS, 5 days. West FL Shelf. Oil Spill, H. Broadbent, Chief Scientist

2013 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, W.H.Jeffrey, Chief Scientist

2013 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, W.H.Jeffrey, Chief Scientist

2012 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, W.H.Jeffrey, Chief Scientist

2012 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, R.A. Snyder, Chief Scientist

2012 RV WEATHERBIRD II, 4 days. N. Gulf of Mex. Oil Spill, J. Chanton, Chief Scientist

2012 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, R.A. Snyder, Chief Scientist

2012 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, R.A. Snyder, Chief Scientist

2012 RV BELLOWS, 3 days. NW FL Shelf. Oil Spill, R.A. Snyder, Chief Scientist

2012 RV WEATHERBIRD II, 4 days. NW FL Shelf. Oil Spill, W.H. Jeffrey, Chief Scientist

2011 RV WEATHERBIRD II, 4 days. NW FL Shelf. Oil Spill, W.H. Jeffrey, Chief Scientist

2011 RV WEATHERBIRD II, 4 days. NW FL Shelf. Oil Spill, W.H. Jeffrey, Chief Scientist

2011 RV WEATHERBIRD II, 4 days. NW FL Shelf. Oil Spill, R.A. Snyder, Chief Scientist

2011 RV WEATHERBIRD II, 4 days. NW FL Shelf. Oil Spill, R.A. Snyder, Chief Scientist

2011 RV WEATHERBIRD II, 5 days. N. Gulf of Mex. Oil Spill, J. Cherrier, Chief Scientist

2011 RV BELLOWS, 4 days. NW FL Shelf. Oil Spill Effects, R.A. Snyder, Chief Scientist

2011 RV BELLOWS, 4 days, Oceanography Teaching Cruise, W.H. Jeffrey, Chief Scientist

2010 RV BELLOWS, 4 days, Oceanography Teaching Cruise, W.H. Jeffrey, Chief Scientist

2009 CCGS AMUNDSEN, 28 days, Beaufort Sea (Arctic), M. Babin, Chief Scientist

2009 RV BELLOWS, 4 days, Oceanography Teaching Cruise. W.H. Jeffrey, Chief Scientist

2006 N/O Le Suroît. 14 days, Mediterranean Sea, J.-J. Naudin, Chief Scientist

2005 RVIB N.B. PALMER. 45 days, Ross Sea, PJ Neale & W.H. Jeffrey, Chief Scientists

2004 RVIB NATHANIEL B. PALMER. 39 days, Ross Sea, Ron Kiene, Chief Scientist

2004 R/V BELLOWS, 3 days, Biol. Oceanogr. Teaching Cruise, W.H. Jeffrey, Chief Sci.

2004 RV TEHTYS II, 4 days, Mediterranean Sea, J.-J. Naudin, Chief Scientist

2003 RVIB NATHANIEL B. PALMER. 23 days, Ross Sea, Patrick Neale, Chief Scientist

2003 RVIB NATHANIEL B. PALMER. 3 days, Barrow, AK, W.H. Jeffrey, Chief Scientist

2003 R/V BELLOWS, 4 Days, Mar. Field Ecol. Teach Cruise, W.H. Jeffrey, Chief Scientist

2002 RVIB NATHANIAL B. PALMER, 29 days, Chile to California, W. Jeffrey, Chief Sci.

2002 R/V SUNCOASTER, 4 Days, Mar. Field Ecol. Teach Cruise, W.H. Jeffrey, Chief Sci.

2001 R/V PELICAN, 13 days, Gulf of Mexico, W.H. Jeffrey, Chief Scientist

2001 R/V BELLOWS, 3 days, Oceanogr. Tech. Teaching Cruise, W.H. Jeffrey, Chief Sci.

2000 R/V BELLOWS, 4 days, Biol. Oceanogr. Teaching Cruise, W.H. Jeffrey, Chief Scientist

2000 RVIB NATHANIAL B. PALMER, 25 days, Chile to Louisiana, W. Jeffrey, Chief Sci.

2000 R/V BELLOWS, 3 days, Oceanogr. Tech. Teaching Cruise, W.H. Jeffrey, Chief Scientist

1999 R/V BELLOWS, 3 days, Oceanogr. Tech. Teaching Cruise, W.H. Jeffrey, Chief Scientist

1998 R/V LAWRENCE M. GOULD. 40 days, Weddell Sea, Patrick Neale, Chief Scientist

1998 R/V BELLOWS, 3 days, Oceanogr. Tech. Teaching Cruise, W.H. Jeffrey, Chief Sci.

1997 R/V BELLOWS, 4 days, Biol. Oceanogr. Teaching Cruise, W.H. Jeffrey, Chief Sci.

1997 R/V POLAR DUKE, 22 days, Chile to Louisiana, W.H. Jeffrey, Chief Scientist

1996 R/V POLAR DUKE, 40 days, Gerlache Straits, Antarctica, W.H. Jeffrey, Chief Sci.

1995 R/V POLAR DUKE, 40 days, Gerlache Straits, Antarctica, W.H. Jeffrey, Chief Sci.

1995 R/V LONGHORN, 10 days, Gulf of Mexico, C. Suttle, Chief Scientist

1994 OSV P.W. ANDERSON, 4 days, Gulf of Mexico, R.B. Coffin, Chief Scientist

1994 R/V BELLOWS, 4 days, Northeastern Gulf of Mexico, W.H. Jeffrey, Chief Scientist

1994 R/V BELLOWS, 5 days, Northeastern Gulf of Mexico, W.H. Jeffrey, Chief Scientist

1994 OSV P.W. ANDERSON, 7 days, Northern Gulf of Mex., R.B. Coffin, Chief Scientist

1993 OSV P.W. ANDERSON, 9 days, Key West, FL, R.B. Coffin, Chief Scientist

1993 R/V CAPE HENLOPEN, 3 days, Bermuda (BATS), J.W. Ammerman, Chief Sci.

1992 OSV P.W. ANDERSON, 8 days, Northern Gulf of Mex., W. H. Jeffrey, Chief Scientist

1992 R/V GYRE, 5 days, Northern Gulf of Mexico, L. Cifuentes, Chief Scientist

1992 R/V BELLOWS, 5 days, Northeastern Gulf of Mexico, W.H. Jeffrey, Chief Scientist

1992 OSV P.W. ANDERSON, 8 days, Northern Gulf of Mex., R.B. Coffin, Chief Scientist

1990 R/V CAPE HATTERAS, 8 days, Bahamas, J.H. Paul, Chief Scientist

1988 R/V BELLOWS, 6 days, Cay Sal, Bahamas, J. Paul, Chief Scientist

1987 R/V BELLOWS, 5 days, Dry Tortugas, J.H. Paul, Chief Scientist

1986 R/V BELLOWS, 6 days, Gulf of Mexico, W.H. Jeffrey, Acting Chief Scientist

1985 R/V SUNCOASTER, 14 days, Gulf of Mexico, J.H. Paul, Chief Scientist

1985 R/V BELLOWS, 5 days, Dry Tortugas, J.H. Paul, Chief Scientist

1984 R/V BELLOWS, 6 days, Gulf of Mexico, Ken Carder, Chief Scientist

1983 R/V BELLOWS, 6 days, Gulf of Mexico, S. Vargo, Chief Scientist

1982 R/V BELLOWS, 2 days, Gulf of Mexico, G. Vargo, Chief Scientist

##### **TEACHING** - University of West Florida

*Molecular Ecology*  1993. PCB 4990/5990. 2 cr. hr.

1996, 1998, 2000. PCB6990. 3 cr. hr.

*Genetics Laboratory* 1994, 1997, 2015. PCB3063L.

*Current Biology* 1995. PCB2990. 3 cr. hr.

*Biological Oceanography* 1996. BSC 4990/5990. 3 cr. hr.

1997, 2004. BSC 4990/5265. 3 cr. hr.

2008, 2010, 2012, 2014, 2016. BSC4263 3 cr. hr. (On-line)

*Biol. Ocean. Laboratory* 1997, 2004. BSC 5265L. 1 cr. hr.

*Marine Microbiology* 1997. MCB 4990/5990. 3 cr. hr.

1999, 2004. MCB 4733/5735. 3 cr. hr.

*Oceanography* 1997, 1998, 1999, 2009, 2010. OCE 3001. 3 cr. hr.

*Oceanography* 2009. OCE 3008. 3 cr. hr.

*Concepts in Oceanography* 2021. OCE 3007. 3 cr. hr.

*and Marine Biology*

*General Biology* 1997. BIO 1010. 3 cr.hr (2 sections).

*Oceanographic Techniques* 1998, 1999, 2000. BSC 6990. 1 cr. hr.

*Experimental Oceanography* 2001. OCE 4990/5990. 1 cr Hr.

*Marine Biotechnology* 2001, 2003. 2005. BSC 4990/5990. 3 cr. hr.

*Marine Field Ecology* 2002, 2003. OCE 4990. 2 cr. hr.

*Biology Seminar* 2002, 2003. PCB4991/5991. 1 cr. hr.

2007 - 2017. PCB4922/5924. 1 cr. hr.

2016 - 2017. PCB3930. 1 cr. hr.

*Climate Change Biology* 2007. BSC4990/5990. 3 cr. hr.

*Genetics* 2008, 2009. PCB3063. 3 cr. hr.

*Professional Development* 2009 – 2018; 2020; 2021. BSC6840. 3 cr. hr.

*Global Climate Change* 2009, 2011, 2013, 2016*.* OCP4550. 3 cr. hr. (On-line).

*Intro Ocean. & Mar Biology* 2018. BSC2311. 3 cr. hr. (Catalyst Study Abroad Program)

*Directed Study* 1993-2020. BSC3905, BSC4905, BSC5905, BSC6905,

OCE4905. Over sixty separate projects from 1-6 credits

##### **STUDENT SUPERVISION AND TRAINING**

*Graduate Student Supervision*

LeAnna Hutchinson (MS 1997)

Jason Kase (MS 1998). Outstanding Grad. Student Award, Dept. Biology 1998-99.

Sarah Ahrens (MS 1999)

Ronald Combs (MS – 2006)

Amy Baldwin (MS - 2007) Awarded Outstanding Grad. Stud. Dept. Biology 2004-05.

Kathleen McClinton (MS – 2009)

Jessie Rosanbalm (MS – 2012) Awarded Outstanding Graduate Asst. 2012-13.

Melissa Overton (MS – 2013)

Erin Hunter (MS - 2014)

Josette Hutcheson (MS – 2015)

Katelyn Houghton (MS – 2014) Outstanding Master’s Thesis Award 2015-2016

Nine Henrickson (MS – 2017)

Mallory Palatucci (MS-2017)

Katelyn Knight (MS-2018)

Margaret McClean (MS – 2019)

Erika Neat-Headrick (MS-2019) (Graduate Student Merit Award, 2018)

Arianna Simmering (MS-2020) Awarded Outstanding Graduate Asst. 2019-2020

Leila Harris (MS-Current)

Gina Rodriguez (MS-Current)

Gillian Barber (MS- Current)

Hope Ebert (MS-Current)

*Graduate Committee Member*

Aileen Grunwald, Univ. West Florida (MS-2000)

Kathleen Kresge, Lehigh University (PhD-2002)

Melissa Booth, Oklahoma State University (PhD-1997)

Jarah Meador, University of Texas- Houston (PhD-2004)

Marc Frischer, Univ. South FL. Chair, PhD Dissertation Defense Committee, 1993

Christine Kellogg, Univ. South FL. Chair, PhD Dissertation Defense Committee, 1998

Lori Deneke, Univ West Florida. (MS-2004)

Sara Laporte, University of West Florida (MS-2006)

Tim Guida, Lehigh University (MS-2006)

Cheryl McGill, Univ. West Florida (MS-2007)

Kristen Smith, Univ. West Florida (MS-2006)

Suzanne Gibson, Univ. West Florida (MS - 2008)

Eric Tauchman, Univ. West Florida (MS – 2008)

Dustin Addis, Univ. West Florida (MS – 2008)

Sabine Matallana-Surget, Univ. Pierre et Marie Curie, Paris, France (PhD-2009)

Kristen Hellein, Univ. West Florida (MS - 2009)

Amy Macaluso, Temple University (PhD – 2010)

Elizabeth Kennedy, Univ. West Florida (MS – 2011)

Joseph Tarnecki, University of West Florida (MS – 2014)

Joshua Neese, University of West Florida (MS – 2014)

Bryan Davis, University of West Florida (MS – 2014)

Sarah Tominack, University of West Florida (MS – 2014)

Philip Coppola, University of West Florida (MS – 2016)

Angel Rain Franco, Universidad de Concepcion, Concepcion, Chile (MS-2016)

Marthe Covell, University of West Florida (MS – 2016)

Kathryn McCarthy, University of West Florida (MS - 2016)

Gary Blain, University of West Florida (MS - 2017)

Tiffany Baskerville, Florida A & M University (PhD- 2017)

Kendra Brooke, University of West Florida (MS - 2018)

Grace Sommerville, University of West Florida (MS – 2019)

Amy Bower, University of West Florida (MS - 2019)

Tristyn Garza, University of West Florida (MS-2021)

Trupti Potdukhe, University of West Florida (MS-2021)

Amy Fellgren, University of West Florida (MS-current)

Jessica Smith, University of West Florida (MS-current)

*Post Doctoral Associates*

Sylvia Nazaret, Fabien Joux, J.D. Pakulski, Hui Wang, Christian Riesenfeld, Lisa Nigro

Over 70 Undergraduate Students currently or previously employed in the laboratory

**UNIVERSITY SERVICE**

• Member, Search Committee, Director of Florida Institute of Oceanography (2019-2020)

•Member, Florida Institute of Oceanography Advisory Executive Committee (2019-present)

• Member, Intellectual Property Working Group (2019-present)

• Member, FYR Working Group for Principle 14.3 – Comprehensive Institutional Reviews (2019 – present)

• Chair, Distinguished University Professor Selection Committee (2019)

• Member, STEAM Art Installation Selection Committee (2018-19)

• Chair, Hal Marcus College of Science and Engineering Selection committee for Research Faculty (2017)

• Member, Provost’s Committee for Development of Interdisciplinary Center (2016 – 2017)

• Member, Search Committee, Director of Florida Institute of Oceanography (2015- 2016)

• Member, Search Committee, Director of Sponsored Research, University of West Florida (2015)

• Member, Strategic Plan Committee, Florida Institute of Oceanography (2015)

• Chair, Provost’s Task Force to Improve and Enhance Research at the University (2014-2015)

•University representative to Florida Institute of Oceanography Advisory Committee (1996-present)

•Chair, Florida Institute of Oceanography Advisory Committee (1998- 2004); (2011- 2015)

•Member, University Radiation Safety Committee (2001-present)

•Member, SCUBA Diving Safety Control Board (2001-present)

•Member, review committee, Office of Undergraduate Research Summer Academy (2011- present)

•Member, Biology Department Chair’s Advisory Committee (2005 – 2013)

•Member, Library Committee (2010 – 2012)

•Member, Department of Biology 5-year planning committee (2002 – 2012)

•Guest Lecturer. Climate Change Effects. Leisure Learning Society, University of West Florida, 2010

•Chair, Search Committee, Biogeochemist, CEDB (2008)

•Member, Distinguished University Professorship Committee (2007)

•Member, Search Committee, Marine Ecologist, Department of Biology (2007-8)

•Member, Search Committee, University Interim Provost (2007)

•Member, Search Committee, University Provost (2007)

•Presidential Faculty Advisory Council (2005 – 2008)

•Member, Campus Master Plan Task Force, Main Campus Sub Group (2006)

•Guest Lecturer: “Foundations in Chemistry.” Lecture on ozone depletion, ultraviolet radiation, and climate change. University of West Florida (2005, 2006, 2007, 2008, 2009, 2010)

•Member, Search Committee, University Provost (2003, 2004)

•Chair, Search Committee, Sediment Biogeochemist, Center for Environmental Diagnostics

and Bioremediation (2003).

•Chair, Search Committee, Microbiologist, Department of Biology (2003)

•Member, Selection committee for the Art in State Buildings Program (2002)

•Member, Search Committee, Environmental Microbiologist, Center for Environmental Diagnostics & Bioremediation, Department of Biology (2001)

•Guest Lectures, Science Seminar for Superior Students (1996; 1998; 2000)

•College of Science and Technology Resource Allocation Committee (1999-2000)

•Member, Florida Sea Grant Ad Hoc Committee on Marine Biotechnology (2000)

•University representative to the Florida Center for Environmental Studies (1995, 1998 - 2000)

•University Employee Benefits Committee (1998-2000)

•Guest Lectures, Spring Honors Seminar Series (1997; 1998)

•Member, Search Committee, Marine Invertebrate Physiologist & Marine Vertebrate Physiologist. Department of Biology (1998)

•University Task Force for Faculty Rights and Responsibilities (1997-8)

•Guest Lecturer: Leisure Learning Society Series on *The Myths of Science.* Lectures on “El niño” and “Antarctic Ozone Depletion.” University of West Florida (1997)

•Guest Lecturer: “Introduction to Environmental Sciences.” Lecture on ozone depletion

Pensacola Junior College. 1996.

•Organize UWF Participation in RV WT HOGARTH visit to Pensacola, reception, public tours, and sea trials. March 2018

•Participation in the Pensacola Science Festival, March 2018. Askew Institute for Multidisciplinary Studies booth

**PROFESSIONAL SERVICE**

•Proposal Review Panels

- 1999. Member, Biological Oceanography Program, National Science Foundation

- 2002. Member, Biocomplexity GEN-EN Program, National Science Foundation

- 2002. Member, Ship time awards, Florida Institute of Oceanography

- 2003. Member, Ship time awards, Florida Institute of Oceanography

- 2004. Member, Office of Polar Programs, National Science Foundation

- 2006. Member, Planetary Protection Program, NASA

- 2011. Panel Chair, Exobiology and Evolution Program. NASA.

- 2012. Member, NASA Astrobiology Institute (NAI)

- 2013. Panel Chair, Exobiology and Evolution Program. NASA.

- 2014. Panel Chair, Exobiology and Evolution Program. NASA.

- 2016. Member, Ship time awards, Florida Institute of Oceanography

- 2017. Member, Ship time awards, Florida Institute of Oceanography

- 2018. Member, Ship time awards, Florida Institute of Oceanography

- 2019. Member, Ship time awards, Florida Institute of Oceanography

- 2020. Member, Ship time awards, Florida Institute of Oceanography

- 2021. Member, Ship time awards, Florida Institute of Oceanography

•2020-2021. Associate Editor, *Frontiers in Microbiology – Aquatic Microbiology*

•2004–2016. Associate Editor, *Limnology and Oceanography*

•2013 - Member, American Association for the Advancement of Science (AAAS) review panel of the National Science Foundation’s Experimental Program to Stimulate Competitive Research (EPSCoR) for the state of Rhode Island.

•2011 - 2015. Chair, Florida Institute of Oceanography Advisory Committee

•2008. American Society for Limnology and Oceanography Ocean Sciences Meeting, Orlando, FL. Session Chairman. *UV Effects on Aquatic Ecosystems: Integration at multiple trophic levels*

•2003–2006. Member, Executive committee, Florida Institute of Oceanography advisory committee.

•2001–2004. Chair, Raytheon Polar Services and National Science Foundation Office of Polar Programs “Palmer Area Users Committee.”

•1998–2004. Member, Raytheon Polar Services and National Science Foundation Office of Polar Programs “Palmer Area Users Committee.”

•2002. American Society for Limnology and Oceanography Ocean Sciences Meeting, Honolulu, HI. Session Co-chairman*. Viruses and prokaryotes in Aquatic Systems III.*

•1998­–2004. Chair, Florida Institute of Oceanography Advisory Committee

•1999–2001. Instructor, “*Advanced Biology Training Course In Antarctica, Integrative Biology and Adaptation of Antarctic Marine Organisms*." National Science Foundation, McMurdo Station, Antarctica.

•1998. American Society for Microbiology Annual Mtg. Symposium organizer and co-convener *Ultraviolet radiation induced processes and effects in microbial ecosystems*. Atlanta, GA

•1998. Invited Participant, Inter-American Institute for Global Change Research Workshop. Ensenada, MX. February 13-15.

•1997. Invited Participant, Inter-American Institute for Global Change Research Workshop, “Low latitude UVB effects in phytoplankton and bacteria, mechanisms and methods.” Puerto Morelas, MX. March 3 - 7.

•1996. Invited Participant, Inter-American Institute for Global Change Research Workshop, “The effects of UV radiation on various ecosystems at different latitudes.” Ensenada, MX. Sept. 15-19.

Manuscript Peer Review: Proposal Peer Review:

*Applied and Environmental Microbiology* Department of Energy

*Aquatic Microbial Ecology* Florida Sea Grant

*Artic, Antarctic, and Alpine Research* Georgia Sea Grant

*Biogeosciences* National Science Foundation

*Environmental Microbiology* Nat. Undersea Res. Program NOAA

*Hydrobiologia* US Environmental Protection Agency

*Journal of Bacteriology* US Department of State

*Journal of Coastal Research* Florida Institute of Oceanography

*J. Exp Marine Biology & Ecology* The Dutch Research Council for

*Journal of Phycology* Marine Biology

*Deep Sea Research* Antarctica New Zealand

*Limnology and Oceanography* Natural Environment Research *Marine Ecology Progress Series* Earth and Life Sciences Council (UK)

*Marine Microbial Food Webs* Texas Sea Grant

*Microbial Ecology* Delaware Sea Grant

## Nature Mississippi Sea Grant

## Photochemistry and Photobiology NASA

## Photochemical & Photobiological Sciences North Carolina Sea Grant

*Limnology and Oceanography Methods* INACH (Chile)

*Aquatic Science* FONDOCYTE (Chile)

*Science*

*Science of the Total Environment*

*Gulf of Mexico Science*

*Environmental Microbiology and*

*Environmental Microbiology Reports*

*Environmental Science & Technology*

*Proteomes*

*J. Hazardous Materials*

*FEMS Microbial Ecology*

##### **COMMUNITY SERVICE**

•Advisor, City of Pensacola Climate Mitigation and Adaptation Task Force, (2016 – 2018)

•Classroom visits, email correspondence from Antarctica with Santa Rosa County Schools, Escambia County Schools, Vermont Public Schools, Trinity Episcopal School (Richmond, VA)

•Faculty and content provider, Florida Center for Research in Science, Technology, Engineering & Mathematics (FCR-STEM) Earth Science Institute workshop for 6-12 science teachers in the state of Florida (2014) (2015) (2016)

•Guest speaker, Navarre Beach Marine Science Station, Santa Rosa County Schools (2014)

•Mentor and supervisor of International Baccalaureate Senior Extended Essay projects (2013 – 2016)

•Member Technical Advising Group to Escambia County RESTORE Act Committee (2013).

•Instructor and facilitator, Biology Institute and Online Support: Collaborative Opportunities to Promote Excellence in Science (BIOSCOPES), a Next Generation Science Partnership of the Florida Center for Research in Science, Technology, Engineering and Mathematics (FCR-STEM) at Florida State University and Escambia County School Districts to improve science education for 6-12 teachers (2013).

•Supervision and assistance for one high school science fair project; Regional Winner, Three additional merit and special recognition awards, State finalist (2013)

•Supervision and assistance for two high school science fair projects (2011-13)

One was a winner of numerous merit and special recognition awards, 3rd place State Science Fair middle school, State Finalist as a High School Freshman

•Mentor and supervisor of two International Baccalaureate Senior Extended Essay projects (2011)

•Volunteer, Gulf Islands National Seashore, Fort Pickens National Park.

•Judge, Environmental Sciences section, The Annual West Panhandle Regional Science and Engineering Fair

•Supervision and assistance for three middle school science fair projects (2010-13) – one project a regional winner and state finalist

•Volunteer, Great Gulfcoast Arts Festival, 2009, 2010, 2011. Photography of artworks.

•Presentation on Climate Change to Brazilian Delegation on Environmental Law Enforcement, part of the U.S. Department of State’s International Visitor Leadership Program. Sponsored by the Gulf Coast Citizen Diplomacy Council, November 13, 2009.

•Keynote Address. COSEE: Central Gulf of Mexico and Southern Association of Marine Educators (SAME) Annual, Two-Day, "Climate Change Through Ocean Literacy" Professional Development Conference for Educators. Niceville, FL November 13-15, 2009.

•Mentor and supervisor of International Baccalaureate Senior thesis projects (2009). This high school student’s paper was published in the peer-reviewed literature and as a 17 yr old, she placed third in the student abstract competition (against graduate students) at the South East Branch meeting of the American Society for Microbiology in 2009.

•Lead Judge, Environmental Sciences section, The Annual West Panhandle Regional Science and Engineering Fair (2009; 2010)

•Judge; Science Fairs at Episcopal Day School, St. Paul Catholic School (2008, 2009, 2010)

•Microbiology Project Advisor, students in the International Baccalaureate Program, Pensacola High School (2007-08)

•Science Fair Advisor, students at Workman Middle School (2007)

•Guest Speaker, Bailey Middle School and Workman Middle Schools on Climate Change (2007)

•Judge; Science Fairs at Episcopal Day School and Bellview Middle School (2007)

•Lecturer; “In Service Workshop on Global Climate Change,” Escambia County, Florida K-12 Science and Social Studies teachers. Pensacola, FL Sept. 18 – 19, 2007.

•Volunteer, Science Olympiad, Gulf Breeze Middle School (2006-7)

•Judge; Environmental Sciences Division, Episcopal Day School Science Fair (2006)

•Distinguished Alumni Award, Trinity Episcopal School, Richmond, Virginia (2006)

•Guest Speaker: Old Antarctic Explorers Gulf Coast Group, Pensacola, FL

•Guest Lecturer: History of Photography course. “Frank Hurley and the Endurance expedition to Antarctica: Extreme Photography and Historical Documentation.” Pensacola Junior College (2003 – 2007)

•Email correspondence with elementary, middle, and high school classes from remote field locations including oceanographic cruises and Antarctic field stations

•Technical Advisor, Brentwood Elementary Magnet School of Communication and Technology, Internet Science and Technology Fair. 2002. Project Title: “What’s up with ultraviolet rays?”

•Mentored high school science fair projects, one a repeat regional winner and state finalist, One an honorable mention in regional competition

•Judge; Microbiology Division, 1996 Northwest Florida Regional Science Fair

•Guest Speaker at various local public schools, topics include Antarctica, ozone depletion

•Guest speaker, Santa Rosa Sound Coalition.

•Guest Speaker, Math and Science Day 2000, 2001. Escambia Public Schools.

•Center for Environmental Diagnostics & Bioremediation display at Bay Day 2001, 2003, a hands-on environmental awareness program for sixth graders in Escambia County Schools

•Member, Escambia County Board of County Commissioners Information Analysis and Planning Team (IAPT). A community task force to study and make recommendations concerning ground level ozone in Northwest Florida. 2001.

•Volunteer, Pensacola Children’s Chorus

•Volunteer, Pensacola Little Theatre

•Volunteer, Gulf Breeze High School Marching Band

•Volunteer teacher, Gulf Breeze Elementary School

**PROFESSIONAL MEMBERSHIPS**

American Society for Microbiology, American Society of Limnology and Oceanography, American Society for Photobiology, The Oceanography Society

**EXHIBITIONS**

2021. University of West Florida, Pensacola, FL. “Antarctica: Seasons of Water and Ice.” One man Show. Photography.

2020-21. Pensacola Museum of Art, Pensacola, FL. “Antarctica: Seasons of Water and Ice.” One man Show. Photography.

2020. Pensacola Museum of Art, Pensacola, FL. “STEAM 2020.” Photography

2020. Artel Gallery, Pensacola, FL. “20/20.” Photography

2017. Artel Gallery, Pensacola, FL. “Cinco Banderos.” Photography.

2017. The Art Gallery, University of West Florida, Pensacola, FL. “STEAM 2017.” Photography.

2016. Artel Gallery, Pensacola, FL. “Thoreau-ly Natural.” Photography.

2014. WUWF Gallery 88. “Extremophiles: Photography from the Arctic, Antarctica, and the Driest Place on Earth.” One Man Show. Photography.

2011-12. Fort Pickens National Park, Pensacola Beach, FL. “Life on the Edge” Photography.

2010. Artel Gallery, Pensacola, FL. “Member’s Show” Photography.

2010. Artel Gallery, Pensacola, FL. “The Green Show” Mixed media/performance.

2009. Artel Gallery, Pensacola, FL. “Pensacola Underground” Photography.

2008. Anna Lamar Switzer Gallery, Pensacola Junior College, Pensacola, FL. “Deux Semaines” Photography

1991. Art on the Tracks, Pensacola, FL. Mixed Media

**CITIZENSHIP:**

United States of America