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EDUCATION

PhD	Department of Biology Penn State University	December, 2004
MS	Marine Science Moss Landing Marine Labs	August, 1999
BS	Marine Science / Biology Southampton College	August, 1993

PROFESSIONAL APPOINTMENTS

Full Professor	Department of Biology Temple University	2019-present
Vice Chair	Department of Biology Temple University	2017-present
Associate Professor	Department of Biology Temple University	2014 - 2019
Assistant Professor	Department of Biology Temple University	2008 - 2014
Post-doctoral Fellow	Organismic and Evolutionary Biology Harvard University	2005 - 2008
Research Associate	Department of Biology Penn State University	2004 - 2008
Research Associate	Invertebrate Zoology Lab Moss Landing Marine Laboratories	1999 - 2000
Curator of Invertebrates	Moss Landing Marine Laboratories	1998 - 1999
Adjunct Faculty	Hartnell College, Salinas, CA	1997 - 2000

RESEARCH

GRANTS, CONTRACTS, AND FELLOWSHIPS

NOAA OER	co P.I.	2021 - 2023
<i>Illuminating pelagic and benthic biodiversity in deep waters of Puerto Rico</i>		
NOAA OER	co P.I.	2018 - 2020
<i>Advancing eDNA as a Tool for Exploration in Deepwater Environments</i>		
BOEM (with USGS and NOAA OER)	P.I.	2017 - 2022
<i>DEEP SEARCH (AKA Deepwater Atlantic Habitats II: Continued Research and Exploration in Deepwater Ecosystems with Focus on Coral, Canyon, and Seep Communities)</i>		
Schmidt Ocean Institute	P.I.	2019
<i>Quantifying the biological, chemical, and physical linkages between chemosynthetic communities and the surrounding deep sea</i>		
iGEM, Temple University	P.I.	2017 - 2019
<i>Sequencing the genome of <i>Lophelia pertusa</i>: unlocking the toolbox for the deep-sea coral lab rat</i>		
NOAA OER	co P.I.	2017 - 2018
<i>Exploration of the Seamounts of the Phoenix Island Protected Area</i>		
NSF BIO OCE	P.I.	2016 - 2019
<i>Collaborative research: Quantifying the biological, chemical, and physical linkages between chemosynthetic communities and the surrounding deep sea</i>		
Gulf of Mexico Research Initiative	co P.I.	2015 - 2017
<i>ECOGIG-2</i>		
Schmidt Ocean Institute	P.I.	2017
<i>What is the current state of the deep-sea coral ecosystem in the Phoenix Islands Protected Area?</i>		
NOAA OER	co P.I.	2014 - 2016
<i>Exploration of Caribbean seamounts within the Greater and Lesser Antilles transition zone</i>		
NSF SEES-Ocean Acidification	P.I.	2012 - 2014
<i>Physiological and genetic responses of the deep-water coral, <i>Lophelia pertusa</i>, to ongoing ocean acidification in the Gulf of Mexico</i>		
Gulf of Mexico Research Initiative	co P.I.	2011 - 2013
<i>Ecosystem Impacts of Oil and Gas Inputs to the Gulf (ECOGIG)</i>		

NOAA Response and Restoration	co P.I.	2010 - 2012
<i>Mississippi Canyon 252 Incident Natural Resources Damage Assessment Tier 1 for Deepwater Communities</i>		
NSF RAPID	co P.I.	2010 - 2011
<i>Collaborative Proposal: Acute response of benthic hardbottom communities to oil exposure in the deep Gulf of Mexico</i>		
MMS (with USGS and NOAA OER)	co P.I.	2008 - 2012
<i>Deepwater Program: Exploration and Research of Northern Gulf of Mexico Deepwater Natural and Artificial Hard Bottom Habitats with Emphasis on Coral Communities: Reef, Rigs and Wrecks</i>		
NOAA Ridge2000 Post-Doctoral Fellowship	P.I.	2006 - 2008
<i>Probing Korarchaeal ecophysiology via statistical analysis of quantitative molecular and geochemical data</i>		
MMS (with USGS and NOAA OE)	co P.I.	2005 - 2009
<i>Deepwater Program: Investigation of Chemosynthetic Communities on the Lower Continental Slope of the Gulf of Mexico</i>		
MMS (with USGS and NOAA OE)	co P.I.	2003 - 2006
<i>Characterization of Northern Gulf of Mexico Deepwater Hard Bottom Communities with Emphasis on Lophelia coral</i>		
NOAA		2003 - 2004
<i>Nancy Foster Scholarship</i>		
Penn State University		2002
<i>Center for Environmental Chemistry and Geochemistry Fellowship</i>		
Penn State University		2000 - 2002
<i>Graduate Fellowship</i>		
Southampton College		1989 - 1993
<i>University Scholarship</i>		

PUBLICATIONS (* indicates undergraduate co-author)

Citations: >5200, h-index: 41, i10-index: 76

<https://scholar.google.com/citations?user=jYax8W4AAAAJ>

<http://orcid.org/0000-0002-6989-2348>

101. Gomez CE, Gori A, Weinnig AM, Hallaj A*, Chung HJ*, **Cordes EE**. (2022) Natural variability in seawater temperature compromises the metabolic performance of a reef-forming cold-water coral with implications for vulnerability to ongoing global change. *Coral Reefs*. doi: 10.1007/s00338-022-02267-2
100. McCartin LJ, Voshen SA, Ambrose SW, Layden M, McFadden CS, **Cordes EE**, McDermott JM, Herrera S (2022) Temperature controls eDNA persistence across physiochemical conditions in seawater. *ES&T*. doi: 10.1021/acs.est.2c01672
99. Quattrini AM, Herrera S, Adams JM, Grinyó J, Allcock AL, Shuler A, Wirshing HH, **Cordes EE**, McFadden CS. (2022) Phylogeography of *Paramuricea*: The role of depth and water mass in the evolution and distribution of deep-sea corals. *Front Mar Sci*. 9: 849402. doi: 10.3389/fmars.2022.849402
98. Ashford OS, Guan S*, Capone D*, Rigney K*, Rowley K*, **Cordes EE**, Cortés J, Rouse GW, Mendoza GF, Sweetman AK, Levin LA. (2021) Biodiversity affects ecosystem functioning differently in a physiologically demanding system, invoking new management focus. *Proc B*. 288: 20210950. doi: 10.1098/rspb.2021.0950
97. Ashford OS, Guan S*, Capone D*, Rigney K*, Rowley K*, Orphan V, Mullin SW, Dawson KS, Cortés J, Rouse GW, Mendoza GF, Lee RW, **Cordes EE**, Levin LA. (2021) A chemosynthetic ecotone—"chemotone"—in the sediments surrounding deep-sea methane seeps. *Limnol Oceanog*. 66: 1687-1702. doi: 10.1002/lno.11713
96. **Cordes EE**, Clark MR, Evans K, Hennige S, Kazanidis G. (2021) Chapter 7E: Cold water corals, In: *The Second World Ocean Assessment*. Eds: Renison Ruwa and Alan Simcock, under the auspices of the United Nations General Assembly.
95. DeLeo DM, Glazier A, Herrera S, Barkman A*, **Cordes EE**. (2021) Transcriptomic responses of deep-sea corals experimentally exposed to crude oil and dispersant. *Front Mar Sci*. 8: 649909. doi: 10.3389/fmars.2021.649909
94. Gauthier AE, Chandler CE, Poli V, Gardner FM, Tekiau A, Smith R, Bonham KS, **Cordes EE**, Shank TM, Zanoni I, Goodlett DR. (2021) Deep-sea microbes as tools to refine the rules of innate immune pattern recognition. *Science Immunology*, 6: eabe0531.
93. Halanych KM, Ainsworth CH, **Cordes EE**, Dodge RE, Huettel M, Mendelssohn IA, Murawski SA, Paris-Limouzy CB, Schwing PT, Shaw RF, Sutton T. (2021) Effects of petroleum by-products and dispersants on ecosystems. *Oceanography* 34: 152–163, doi: 10.5670/oceanog.2021.123.
92. Montseny M, et al. (2021) Restoration of cold-water corals: techniques, challenges, costs and future directions. *Front Mar Sci*. 8: 621151. doi: 10.3389/fmars.2021.621151
91. Morato et al. (2021) North Atlantic basin-scale multi-criteria assessment database to inform effective management and protection of Vulnerable Marine Ecosystems. *Front Mar Sci*. 8: 255. doi: 10.3389/fmars.2021.637078

90. Pereira O, Gonzalez J, Mendoza G, Le J, Coscino C, Lee R, Cortés J, **Cordes EE**, Levin L. (2021) The dynamic influence of methane seepage on macrofauna inhabiting authigenic carbonates. *Ecosphere*. 12: e03744. doi: 10.1002/ecs2.3744
89. Auscavitch SR, Deere MC*, Keller AG, Rotjan RD, Shank TM, **Cordes EE**. (2020) Oceanographic drivers of deep-sea coral species distribution and community assembly on seamounts, islands, atolls, and reefs within the Phoenix Islands Protected Area. *Front Mar Sci*. 7: 42. doi: 10.3389/fmars.2020.00042
88. Auscavitch SR, Lunden JJ, Barkman A*, Quattrini AM, Demopoulos AWJ, **Cordes EE**. (2020) Distribution of scleractinian and stylasterid corals across abiotic environmental gradients on three seamounts in the Anegada Passage. *PeerJ*. 8: e9523. doi: 10.7717/peerj.9523
87. Bernardino AF, **Cordes EE**, Schlacher TA. (2020) The natural capital of offshore oil, gas, and methane hydrates in the World Ocean. In: *Natural Capital and Exploitation of the Deep Ocean*. Edited by: Baker M, Ramirez-Llodra E, Tyler P, Oxford University Press. doi: 10.1093/oso/9780198841654.003.0006
86. **Cordes EE**, Demopoulos A, Rasser M, Adams C. (2020) DEEP SEARCH project completes last year of fieldwork with two successful expeditions. *Oceanography* 33: 81-82. doi: 10.5670/oceanog.2020.supplement.01
85. Georgian SE, Saunders M, Fisher CR, Kramer K, Shedd W, Roberts HH, Lewis C, **Cordes EE**. (2020) Habitat suitability modeling to predict the spatial distribution of cold-water coral communities affected by the *Deepwater Horizon* oil spill. *Journal of Biogeography* 47: 1455-1466. doi: 10.1111/jbi.13844
84. Glazier A, Herrera S, Weinnig A, Kurmann M*, Gómez C, **Cordes EE**. (2020) Regulation of ion transport and energy metabolism enables certain coral genotypes to maintain calcification under experimental ocean acidification. *Mol Ecol*. 29: 1657-1673. doi: 10.1111/mec.15439
83. Goffredi SK, Tilic E, Mullin SW, Dawson KS, Keller A, Lee RW, Wu F, Levin LL, Rouse GW, **Cordes EE**, Orphan VJ. (2020) Methanotrophic bacterial symbionts fuel dense populations of deep-sea feather duster worms (Sabellida, Annelida) and extend the spatial influence of methane seepage. *Science Advances*. 6: eaay8562. doi: 10.1126/sciadv.aay8562
82. Howell KL, et al. (2020) A blueprint for an inclusive, global deep-sea Ocean Decade field programme. *Front Mar Sci*. 7: 584861. doi: 10.3389/fmars.2020.584861
81. Howell KL, et al. (2020) A Decade to Study Deep-Sea Life. *Nature Ecol Evol*. 5: 265-267. doi: 10.1038/s41559-020-01352-5
80. Morato T, et al. (2020) Climate-induced changes in the habitat suitability of cold-water corals and commercially important deep-sea fish in the North Atlantic. *Global Change Biology*. 26: 2181-2202. doi: 10.1111/gcb.14996
79. Peterson CH, Franklin KP, **Cordes EE**. (2020) Habitat connectivity enhances restoration success in a changing Gulf of Mexico ecosystem. *Elementa*. 8: 016. doi: 10.1525/elementa.016
78. Rojas-Jimenez K, Grossart H-P, **Cordes EE**, Cortés J. (2020) Fungal communities in sediments along a depth gradient in the Eastern Tropical Pacific. *Front Microb*. 11: 575207. doi: 10.3389/fmicb.2020.575207
77. Schwing P, Montagna PA, Joye SB, Paris CB, **Cordes EE**, McClain CR, Kilborn JP, Murawski SA. (2020) Deep benthic ecosystem impacts of the *Deepwater Horizon* oil spill: Assembling the record of species and community change. *Front Mar Sci*. 7:560012. doi: 10.3389/fmars.2020.560012

76. Tunnicliffe V, **Cordes EE**. (2020) The tubeworm forests of hydrothermal vents and cold seeps. In: *Perspectives on the Marine Animal Forests of the World*, Rossi S. & Bramanti L. (eds), Springer, Cham. pp. 147-192.
75. Weinnig AM, Hallaj A*, Gomez CE, **Cordes EE**. (2020) Assessing the impact of multiple stressors on a cold-water coral: the influence of temperature and pH on the phenotypic response of *Lophelia pertusa* to oil and dispersant exposure. *Scientific Reports*. 10: 1768. doi: 10.1038/s41598-020-58556-9
74. Breedy O, Rouse GW, Stabbins A, Cortés J, **Cordes EE**. (2019) New records of *Swiftia* (Cnidaria, Anthozoa, Octocorallia) from off Pacific Costa Rican margin, including a new species from methane seeps. *Zootaxa* 4671: 407-419. doi: 10.11646/zootaxa.4671.3.6
73. Chapman A, et al. (2019) sFDvent: a global trait database for deep-sea hydrothermal vent fauna. *Global Ecology and Biogeography*. 28: 1538-1551. doi: 10.1111/geb.12975
72. **Cordes EE**, Demopoulos AWJ, Rasser M, Adams C. (2019) DEEP SEARCH: Deep Sea Exploration to Advance Research on Coral/Canyon/Cold Seep Habitats. *Oceanography* 32: 104-105.
71. Orejas C, et al. (2019) Cold-water corals in aquaria: advances and challenges. A focus on the Mediterranean. pp 435-471. In: Orejas C, Jiménez C (eds). *Mediterranean Cold-Water Corals: Past, Present and Future: Understanding the Deep-Sea Realms of Coral*. Springer.
70. Roman C, Warren J, **Cordes EE**, Seibel B. (2019) Midwater acoustic echosounding with the Wire Flyer towed profiling vehicle. *Oceanography* 32: 126.
69. **Cordes EE**, Demopoulos AWJ, Boland G, Adams C. (2018) DEEP SEARCH: Deep Sea Exploration to Advance Research on Coral/Canyon/Cold seep Habitats. *Oceanography* 31: 97-98.
68. **Cordes EE**, Levin LA. (2018) Exploration before exploitation (editorial). *Science* 359: 719.
67. DeLeo DM, Lengyel SD, Quattrini AM, Kulathinal RJ, **Cordes EE**. (2018) Gene expression profiling reveals deep-sea coral response to the *Deepwater Horizon* oil spill. *Mol Ecol* 27: 4066-4077. doi: 10.1111/mec.14847
66. Demopoulos AWJ, Durkin A, **Cordes EE**, Bourque J. (2018) The influence of hydrocarbon seeps on sediment macrofaunal biodiversity and functional traits. *Deep-Sea Res I* 142: 77-93. doi: 10.1016/j.dsr.2018.10.004
65. Etnoyer PJ, Wagner D, Fowle HA*, Poti M, Kinlan B, Georgian SE, **Cordes EE**. (2018) Models of habitat suitability, size, and age-class structure for the deep-sea black coral *Leiopathes glaberrima* in the Gulf of Mexico. *Deep Sea Res II* 150: 218-228. doi: 10.1016/j.dsr2.2017.10.008
64. Farfan GA, **Cordes EE**, Waller RG, DeCarlo TM, Hansel CM. (2018) Mineralogy of deep-sea coral aragonites as a function of aragonite saturation state. *Front Mar Sci*. 5: 473. doi: 10.3389/fmars.2018.00473.
63. Gomez CE, Wickes L, Deegan D*, Etnoyer P, **Cordes EE**. (2018) Growth and feeding of deep-sea coral *Lophelia pertusa* from the California margin under simulated ocean acidification conditions. *PeerJ*. 6: e5671. doi: 10.7717/peerj.5671
62. Vogt DM, Becker KP, Philips BT, Graule MA, Rotjan RD, Shank TM, **Cordes EE**, Wood RJ, Gruber DF. (2018) Shipboard design and fabrication of custom 3D-printed soft robotic manipulators for the investigation of delicate deep-sea organisms. *PLoS One* 13: e0200386. doi: 10.1371/journal.pone.0200386

61. Durkin A, Fisher CR, **Cordes EE**. (2017) Extreme longevity in a deep-sea vestimentiferan tubeworm and its implications for the evolution of life history strategies. *The Science of Nature* 104: 63. doi: 10.1007/s00114-017-1479-z
60. Kurmann M*, Gómez CLS, Georgian SE, Lunden JJ, **Cordes EE**. (2017) Intra-specific variation reveals potential for adaptation to ocean acidification in a cold-water coral from the Gulf of Mexico. *Front Mar Sci* 4:111. doi: 10.3389/fmars.2017.00111
59. Quattrini AM, Gómez CLS, **Cordes EE**. (2017) Environmental filtering and neutral processes shape octocoral community assembly in the deep sea. *Oecologia* 183: 221-236. doi: 10.1007/s00442-016-3765-4
58. **Cordes EE**, Arnaud-Haond S, Bergstad O-A, da Costa Falcao AP, Freiwald A, Roberts JM. (2016) Chapter 42: Cold-Water Corals. In: *The First Global Integrated Marine Assessment: World Ocean Assessment I*. Eds: Lorna Inniss and Alan Simcock, under the auspices of the United Nations General Assembly.
57. **Cordes EE**, Auscavitch S, Baums IB, Fisher CR, Girard F, Gomez CLS, McClain-Counts J, Mendlovitz HP, Saunders M, Smith S*, Vohsen S, Weinheimer A*. (2016) ECOGIG: Oil spill effects on deep-sea corals through the lenses of natural hydrocarbon seeps and long time series. *Oceanography* 29: 28-29.
56. **Cordes EE**, Jones DOB, Schlacher TA, Amon DJ, Bernardino AF, Brooke S, Carney R, DeLeo DM, Dunlop KM, Escobar E, Gates AR, Génio L, Gobin J, Henry L-A, Herrera S, Hoyt S, Joye S, Kark S, Mestre NC, Metaxas A, Pfeifer S, Sink K, Sweetman AK, Witte U. (2016) Environmental impacts of the deep-water oil and gas industry: a review to guide management strategies. *Front Environ Sci* 4: 58. doi: 10.3389/fenvs.2016.00058
55. **Cordes EE**, Michel APM, Petersen J, Wankel SD, Ansorge R, Girguis P, Leisch N, Smart C, Roman C, Wetzel S, Vidouez C. (2016) ROV *Hercules* investigates brine lakes on the bottom of the ocean. *Oceanography* 29: 30-31.
54. DeLeo DM, Ruiz-Ramos D, Baums IB, **Cordes EE**. (2016) Response of deep-water corals to oil and chemical dispersant exposure. *Deep-Sea Res II* 129: 137-147. doi: 10.1016/j.dsr2.2015.02.028
53. Demopoulos AWJ, Bourque JR, **Cordes EE**, Stamler KM. (2016) Impacts of the *Deepwater Horizon* oil spill on deep-sea coral sediment communities. *MEPS* 561: 51-68. doi: 10.3354/meps11905
52. Georgian SE, DeLeo D, Durkin A, Gomez CE, Kurmann M*, Lunden JJ, **Cordes EE**. (2016) Oceanographic patterns and carbonate chemistry in the vicinity of cold-water coral reefs in the Gulf of Mexico: implications for resilience in a changing ocean. *Limnol Oceanog* 61: 648-665. doi: 10.1002/lno.10242.
51. Georgian SE, Dupont S, Kurmann M*, Butler A*, Stromberg S, Larsson A, **Cordes EE**. (2016) Biogeographic variability in the physiological response of the cold-water coral *Lophelia pertusa* to ocean acidification. *Mar Ecol* 37: 1345-1359. doi: 10.1111/maec.12373
50. Joye SB, Bracco A, Ozgokmen T, Chanton JP, Grosell M, MacDonald IR, **Cordes EE**, Montoya JP, Passow U. (2016) The Gulf of Mexico Ecosystem, six years after the Macondo Oil Well Blowout. *Deep-Sea Res II* 129: 4-19. doi: 10.1016/j.dsr2.2016.04.018
49. Le Bris N, Arnaud-Hoand S, Beaulieu S, **Cordes EE**, Hilario A, Rodgers A, Watanabe H. (2016) Chapter 46: Hydrothermal Vents and Cold Seeps. In: *The First Global Integrated Marine*

Assessment: World Ocean Assessment I. Eds: Lorna Inniss and Alan Simcock, under the auspices of the United Nations General Assembly.

48. Levin LA, Baco AR, Bowden D, Colaco A, **Cordes EE**, Cunha MR, Demopoulos AWJ, Gobin J, Grupe B, Le J, Metaxas A, Netburn A, Rouse G, Thurber AR, Tunnicliffe V, Van Dover C, Vanreusel A, Watling L. (2016) Hydrothermal vents and methane seeps: Rethinking the sphere of influence. *Frontiers Mar Sci* 3:72. doi: 10.3389/fmars.2016.00072
47. Radice V, Quattrini AM, Wareham V, Edinger E, **Cordes EE**. (2016) Vertical water mass structure in the North Atlantic influences the bathymetric distribution of species in the deep-sea coral genus *Paramuricea*. *Deep-Sea Res.* 116: 253-263. doi: 10.1016/j.dsr.2016.08.014
46. Reuter KE, Wills AR, Lee RW, **Cordes EE**, Sewall BJ. (2016) Impacts of habitat change on the diets and vertical stratification of frugivorous bats. *PLoS: ONE*. 11: e0153192. doi: 10.1371/journal.pone.0153192
45. Quattrini AM, Baums IB, Shank TM, Morrison CL, **Cordes EE**. (2015) Testing the depth-differentiation hypothesis in deepwater octocorals. *Proc Roy Soc B*. 282: 2015008. doi: 10.1098/rspb.2015.0008
44. Becker EL, **Cordes EE**, Macko SA, Lee RW, Fisher CR. (2014) Spatial patterns of tissue stable isotope contents give insight into the nutritional sources for seep communities on the Gulf of Mexico lower slope. *Mar Ecol Prog Ser*. 498: 133-145. doi:10.3354/meps10598
43. **Cordes EE**, Berlet SP*, Cardman Z, Dannenberg R, Demopoulos AWJ, Georgian SE, King C, McKean DL*, Young DM. (2014) Exploring deep-sea coral communities and the effects of oil and gas inputs to the Gulf of Mexico. *Oceanography* 27: 28-29. doi: 10.5670/oceanog.2014.supplement.01
42. Doughty CL*, Quattrini AM, **Cordes EE**. (2014) Insights into the population dynamics of the deep-sea coral genus *Paramuricea* in the Gulf of Mexico. *Deep-Sea Res II* 99: 71-82. doi: 10.1016/j.dsr2.2013.05.023
41. Fisher CR, Demopoulos AWJ, **Cordes EE**, Baums IB, White HK, Bourque JR. (2014) Coral communities as indicators of ecosystem-level impacts resulting from the Deepwater Horizon oil spill. *Bioscience*. 64: 796-807. doi: 10.1093/biosci/biu129
40. Fisher CR, Hsing P-Y, Kaiser C, Yoerger D, Roberts HH, Shedd W, **Cordes EE**, Shank TS, Berlet SP*, Saunders M, Larcom EA*, Brooks J. (2014) Footprint of *Deepwater Horizon* blowout impact to deep-water coral communities. *PNAS*. 111: 11744-11749. doi: 10.1073/pnas.1403492111
39. Georgian SE, Shedd W, **Cordes EE**. (2014) High resolution ecological niche modelling of the cold-water coral *Lophelia pertusa* in the Gulf of Mexico. *Mar Ecol Prog Ser* 506: 145-161. doi: 10.3354/meps10816
38. Lunden JJ, McNicholl CG*, Sears CR*, Morrison CL, **Cordes EE**. (2014) Acute survivorship of the deep-sea coral *Lophelia pertusa* from the Gulf of Mexico under acidification, warming, and deoxygenation. *Front Mar Sci* 1:78. doi: 10.3389/fmars.2014.00078
37. Lunden JJ, Turner JM*, McNicholl CG*, Glynn CK*, **Cordes EE**. (2014) Design, development, and implementation of recirculating aquaria for maintenance and experimentation of deep-sea corals and associated fauna. *Limnol Oceanogr Methods* 12: 363-372. doi: 10.4319/lom.2014.12.363

36. Quattrini AM, Etnoyer PJ, Doughty CL*, English L*, Falco R*, Remon N, Rittinghouse M, **Cordes EE**. (2014) A phylogenetic approach to octocoral community structure in the deep Gulf of Mexico. *Deep-Sea Res II*. 99: 92-102. doi: 10.1016/j.dsr2.2013.05.027
35. Becker EL, **Cordes EE**, Macko SA, Lee RW, Fisher CR. (2013) Using stable isotope contents in animal tissues to infer trophic interactions and feeding biology in seep communities on the Gulf of Mexico lower slope. *PLoS ONE*. 8: e74459. doi: 10.1371/journal.pone.0074459
34. Feng D, **Cordes EE**, Fisher CR, Roberts HH. (2013) A comparative study of authigenic carbonates from mussel and tubeworm environments: Important discriminating vital effects of tubeworms. *Deep-Sea Res I*. 75:110-118. doi: 10.1016/j.dsr.2013.02.002
33. Lunden JJ, Georgian SE, **Cordes EE** (2013) Aragonite saturation states at cold-water coral reefs structured by *Lophelia pertusa* in the northern Gulf of Mexico. *Limnol Oceanogr*. 58: 354-362. doi: 10.4319/lo.2013.58.1.0354
32. Quattrini AM, Georgian SE, Byrnes L*, Stevens A*, Falco R*, **Cordes EE** (2013) Niche divergence by deep-sea octocorals in the genus *Callogorgia* across the continental slope of the Gulf of Mexico. *Mol Ecol*. 22: 4123-4140. doi: 10.1111/mec.12370.
31. White HK, Hsing PY, Cho W, Shank TM, **Cordes EE**, Quattrini AM, Nelson RK, Camilli R, Demopoulos A, German CR, Brooks JM, Roberts HH, Shedd W, Reddy CM, Fisher CR. (2012) Reply to Boehm and Carragher: Multiple lines of evidence link deep-water coral damage to *Deepwater Horizon* oil spill. *PNAS*. 109: E2648. doi: 10.1073/pnas.1210413109
30. White HK, Hsing PY, Cho W, Shank TM, **Cordes EE**, Quattrini AM, Nelson RK, Camilli R, Demopoulos A, German CR, Brooks JM, Roberts HH, Shedd W, Reddy CM, Fisher CR. (2012) Impact of the *Deepwater Horizon* oil spill on a deep-water coral community in the Gulf of Mexico. *PNAS*. 109: 20303-2030. doi: 10.1073/pnas.1118029109.
29. German CR, et al. (2011) Deep-Water Chemosynthetic Ecosystem Research during the Census of Marine Life Decade and Beyond: A Proposed Deep-Ocean Road Map. *PLoS ONE* 6: e23259. doi:10.1371/journal.pone.0023259
28. Baker MC, Ramirez-Llodra E, Tyler PA, German CR, Boetius A, **Cordes EE**, Dubilier N, Fisher CR, Levin L, Metaxas A, Rowden A, Santos RS, Shank T, Van Dover C, Young C, Waren A. (2010) Biogeography, Ecology and Vulnerability of Chemosynthetic Ecosystems in the Deep Sea. Chapter 9. In: McIntyre AD (ed) *Life in the World's Oceans*. Blackwell Publishing
27. Bright M, Plum C, Riavitz LA, Nikolov N, Martinez-Arbizu P, **Cordes EE**, Gollner S. (2010) Epizooic metazoan meiobenthos associated with tubeworm and mussel aggregations from cold seeps of the Northern Gulf of Mexico. *Deep-Sea Res II* 57: 1982-1989. doi:10.1016/j.dsr2.2010.05.003
26. **Cordes EE**, Becker EL, Fisher CR. (2010) Temporal shift in nutrient input to cold-seep food webs revealed by carbon, nitrogen, and sulfur stable-isotope signatures of associated communities. *Limnol Oceanogr* 55: 2537-2548.
25. **Cordes EE**, Becker EL, Hourdez S, Fisher CR. (2010) Influence of foundation species, depth, and location on biodiversity and structure of cold seep macrofaunal communities on the lower slope of the Gulf of Mexico. *Deep-Sea Res II* 57: 1870-1881. doi:10.1016/j.dsr2.2010.05.010
24. **Cordes EE**, Cunha MM, Galeron J, Mora C, Olu-Le Roy K, Sibuet M, Van Gaeve S, Vanreusel A, Levin L. (2010) The influence of geological, geochemical, and biogenic habitat heterogeneity on seep biodiversity. *Mar Ecol* 31: 51-65. doi:10.1111/j.1439-0485.2009.00334.x

23. **Cordes EE**, Hourdez S, Roberts HH. (2010) Unusual habitats and organisms associated with the cold seeps of the Gulf of Mexico. In: Kiel S (ed) The Vent and Seep Biota. Topics in Geobiology. pp 315-332.
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13. **Cordes EE**, Bergquist DC, Redding MR*, Fisher CR (2007) Growth of *Seepiophila jonesi*: a second species of long-lived vestimentiferan. Mar Ecol 28: 160-168. doi:10.1111/j.1439-0485.2006.00112.x
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3. Andrews AH, **Cordes EE**, Mahoney MM, Munk K, Coale KH, Cailliet GM, Heifetz J (2002) Age, growth and radiometric age validation of a deep-sea, habitat-forming gorgonian (*Primnoa resedaeformis*) from the Gulf of Alaska. Hydrobiologia 471: 101-110. doi:10.1023/A:1016501320206
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[Manuscripts in Progress](#)

- Bettors M, Keller A, **Cordes EE**. Evidence of depth partitioning in *Provanna* (Gastropoda: Provannidae) from the Costa Rica Margin. Submited to Journal of Biogeography.
- Carvalho NF, Waters LG, Arantes RCM, Couto DM, Cavalcanti GH, Hercos CM, Falcão APC, Güth AZ, Nagata PD, **Cordes EE**, Sumida PY. Deep-sea corals in newly explored regions in the South Atlantic. submitted to Communications Earth & Environment.
- Cordes EE**, et al. Oceanographic conditions at a coral reef complex reveal new suitable habitat for cold-water corals. in prep for Scientific Reports.
- Gasbarro R, Margolin A, Sowers D, **Cordes EE**. Distribution and predicted climatic refugia for a reef-building cold-water coral on the southeast US margin. submitted to Global Change Biology.

Weinnig AM, Herrera S, **Cordes EE**. A decrease in pH, increase in temperature, and pollution exposure elicit distinct stress responses in a scleractinian coral *Lophelia pertusa*. resubmitted to Mol Ecol.

INVITED SEMINARS

<i>Spatial management of offshore drilling to avoid impacts to vulnerable deep-sea ecosystems</i>	Society for the Protection of Nature Tel Aviv, Israel (virtual)	2021
<i>Exploration of hydrocarbon seep ecosystems and their ties to the deep ocean and the blue economy</i>	NOAA/NOS Science Seminar Series (virtual)	2020
<i>Exploration to inform management of the blue economy and to protect hydrocarbon seep ecosystems</i>	iAtlantic Webinar Series EU iAtlantic Project	2020
<i>Deep-Sea Exploration for Research, Assessment, and Management</i>	Graduate School of Oceanography University of Rhode Island Narragansett, RI	2020
<i>What are the limits of deep-sea coral distribution?</i>	Invited Keynote presentation International Symposium on Deep-Sea Corals Cartagena, Colombia	2019
<i>Bringing light to the depths of the ocean</i>	University of New Hampshire Durham, NH	2018
<i>ROC HITS: Research on Cold Seeps and How They Influence the Sea</i>	Deep Regions of Costa Rica Symposium University of Costa Rica San Jose, Costa Rica	2018
<i>An Evolving Understanding of the Deep Sea and Our Role in the Depths of the Ocean</i>	Lehigh University Bethlehem, PA	2018
<i>An Evolving Understanding of the Deep Sea and Our Role in the Depths of the Ocean</i>	Bryn Mawr College Bryn Mawr, PA	2017
<i>The Ecology of the Deep Sea: What we have learned from exploration and exploitation</i>	Shoals Marine Lab Isles of Shoals, NH	2016
<i>The Ecology of the Deep Sea: What we have learned from exploration and exploitation</i>	The College of New Jersey Ewing, NJ	2016

<i>The significance of chemosynthetic ecosystems in the function of the global ocean</i>	Graduate School of Oceanography University of Rhode Island Narragansett, RI	2015
<i>Understanding the Deep Sea in the Anthropocene</i>	Lamont-Doherty Earth Observatory Columbia University Palisades, NY	2015
<i>Deep Coral Ecosystem Management Perspectives Following the Deepwater Horizon Oil Spill</i>	Invited Plenary Lecture 1 st Brazilian Deep-Sea Coral Symposium Rio de Janeiro, Brazil	2015
<i>How Human Impacts Precede Human Presence: Oil spills and ocean acidification threaten deep-water corals in the Gulf of Mexico</i>	Villanova University Villanova, PA	2014
<i>Ocean Acidification: The impact of climate change is already being felt in the deep sea</i>	Keynote Speaker 12 th Annual Environmental Forum Stockton College Galloway, NJ	2013
<i>Anthropogenic Impacts in the Deep Sea: Oil spills and ocean acidification threaten deep-water corals in the Gulf of Mexico</i>	Woods Hole Oceanographic Institution Woods Hole, MA	2012
<i>Deepwater Impacts of the Deepwater Horizon: Damage to deep-sea corals and how they might be restored</i>	Stockton College Galloway, NJ	2012
<i>The Gulf Oil Spill: Determining the Impact in an Unexplored Deep Sea</i>	University of New England Biddeford, ME	2012
<i>Impacts of the Gulf Oil Spill on Deepwater Coral Communities</i>	University of Pennsylvania Philadelphia, PA	2011
<i>Impacts of the Oil Spill on Seafloor Communities: Coupling Exploration and Damage Assessment.</i>	Metcalf Institute URI Graduate School of Oceanography South Kingston, RI	2011
<i>Ecology of the deep-sea: complex interactions and the structure of cold-seep communities</i>	Franklin & Marshall College Lancaster, PA	2010
<i>Ecology of deep-sea biogenic habitats: Complex interactions, communities, and conservation</i>	University of Pennsylvania Philadelphia, PA	2009
<i>How organisms shape their environment from the microbe to the landscape.</i>	Marine Science Institute University of Texas Port Aransas, TX	2008

<i>Exploring the effects of cold-seep tubeworms on deep-sea community ecology and biogeochemistry</i>	Oregon Institute of Marine Biology Charleston, OR	2006
<i>How organisms shape their environment from the microbe to the landscape</i>	Temple University Philadelphia, PA	2007
<i>Exploring the effects of cold-seep tubeworms on deep-sea community ecology and biogeochemistry</i>	University of Oregon Eugene, OR	2006
<i>Exploring the effects of cold-seep tubeworms on deep-sea community ecology and biogeochemistry</i>	University of Massachusetts Lowell, MA	2005
<i>Age, growth and radiometric validation of a deep-sea, habitat forming gorgonian <i>Primnoa resedaeformis</i>, from the Gulf of Alaska</i>	University of Guelph Ontario, Canada	2001

CONFERENCE PRESENTATIONS

<i>Explore, Inform, Protect: How Ocean Exploration can improve our global capacity for marine conservation</i>	Oral Presentation Ocean Sciences Meeting (Virtual)	2022
<i>Can we restore the deep sea?</i>	Oral Presentation 16 th Deep-Sea Biology Symposium Brest, France	2021
<i>Habitat suitability modeling to predict the spatial distribution of cold-water coral communities affected by the Deepwater Horizon oil spill</i>	Oral Presentation Gulf of Mexico Oil Spill & Ecosystem Science Conference (GoMOSES) Tampa, FL	2020
<i>Discovery of an extensive coral reef ecosystem off of the US Southeast Atlantic coast</i>	Oral Presentation ASLO Aquatic Sciences Meeting San Juan, Puerto Rico	2019
<i>Just what is the Phoenix Islands Protected Area protecting?</i>	Oral Presentation Ocean Sciences Meeting Portland, OR	2018
<i>The Influence of Hydrocarbon Seeps on the Deep Sea in the Anthropocene</i>	Oral Presentation Chemosynthetic Ecosystems Symposium Woods Hole, MA	2017

<i>Exploration of the water column overlying deep-sea hydrocarbon seeps</i>	Oral presentation ASLO Aquatic Sciences Meeting Honolulu, HI	2017
<i>Environmental impacts of the deep-water oil and gas industry: a review to guide management strategies</i>	Oral presentation GoMOSES New Orleans, LA.	2017
<i>Strategies for restoration of deep-water coral ecosystems based on a global survey of oil and gas regulations</i>	Poster presentation ASLO Ocean Sciences Meeting New Orleans, LA	2016
<i>How drilling impacts inform oil and gas management worldwide: Introducing the DOSI Oil & Gas working group.</i>	Oral Presentation GoMOSES Tampa, FL	2016
<i>Deep-sea ecological paradigms tested in coral and chemosynthetic communities</i>	Oral presentation 14 th Deep-Sea Biology Symposium Aveiro, Portugal	2015
<i>Deep ocean stewardship issues related to the oil & gas industry</i>	Poster Presentation 14 th Deep-Sea Biology Symposium Aveiro, Portugal	2015
<i>Response to ocean acidification varies by genotype in the deep-sea coral <i>Lophelia pertusa</i></i>	Oral Presentation NSF Ocean Acidification P.I. Meeting Woods Hole, MA	2015
<i>Extreme is in the Eye of the Beholder: Perspectives from the Deep Sea</i>	Kavli Frontiers of Science Symposium US/Israeli National Academies Jerusalem, Israel	2015
<i>The Acid Horizon Cruise: Expanding scientific outreach by crowd-funding a film project</i>	Poster Presentation American Geophysical Union San Francisco, CA	2014
<i>Telepresence-enabled science and Outreach</i>	Oral Presentation (virtual) INMARTEC Corvallis, OR	2014
<i>Integrating oceanography, radiometric dating, geochemical proxies, physiology, and genetics to understand a deep-water coral's response to ocean acidification</i>	Oral Presentation Ocean Sciences Meeting Honolulu, HI	2014
<i>Impacts of the Deepwater Horizon on deepwater corals</i>	Invited Presentation GoMOSES Mobile, AL	2014

<i>Use of genetic tools to monitor populations of Paramuricea, a genus of deep-sea gorgonian corals impacted during the 2010 oil spill</i>	Poster Presentation GoMOSES Mobile, AL	2014
<i>Sensitivity and resilience of the deep-sea gorgonian coral Paramuricea sp. to oil and dispersant exposure</i>	Oral Presentation GoMOSES New Orleans, LA	2013
<i>Different genotypes of the deep-water coral Lophelia pertusa have different responses to ocean acidification</i>	Poster Presentation NSF Ocean Acidification P.I. Workshop Washington, DC	2013
<i>Roberts' Reef: An enigmatic cold-water coral mound in the deep- and low-aragonite-saturation-state Gulf of Mexico</i>	Oral Presentation 13 th Deep-Sea Biology Symposium Wellington, New Zealand	2012
<i>Insights into the population dynamics of the deep-sea coral genus Paramuricea</i>	Poster Presentation 13 th Deep-Sea Biology Symposium Wellington, New Zealand	2012
<i>Impacts of the Gulf of Mexico Oil Spill on Deepwater Communities</i>	Oral Presentation International Deep-Sea Coral Symposium Amsterdam, Netherlands	2012
<i>Distribution of Cold-Water Coral Communities in the Gulf of Mexico</i>	Invited Presentation BOEM Information Transfer Meeting New Orleans, LA	2011
<i>Roberts Reef: A natural laboratory for the examination of the effects of ocean acidification on the deep-water coral Lophelia pertusa</i>	Poster Presentation ASLO Aquatic Sciences Meeting San Juan, Puerto Rico	2011
<i>Tissue damage in the deep-water corals at Mississippi Canyon 338 resulting from the Deepwater Horizon incident.</i>	Poster Presentation Our Changing Oceans Conference National Council for Society & the Environment Washington, DC	2011
<i>Deep-water communities of the Gulf of Mexico: Preliminary findings on the impact of the Mississippi Canyon 252 incident</i>	Invited Oral Presentation American Chemical Society Boston, MA	2010
<i>Refined models for deep-water coral exploration: Recent results from Gulf of Mexico expeditions</i>	Oral Presentation Ocean Sciences Meeting Portland, OR	2010
<i>Influence of foundation species, depth, and location on biodiversity and community structure at Gulf of Mexico cold seeps</i>	Oral Presentation Chemosynthetic Ecosystems Symposium Okinawa, Japan	2009

<i>Coral communities of the lower continental slope of the Gulf of Mexico</i>	Poster Presentation International Deep-Sea Coral Symposium Wellington, New Zealand	2008
<i>Endolithic microbial communities of Juan de Fuca Ridge hydrothermal vent chimneys</i>	Poster Presentation American Society of Microbiology Boston, MA	2008
<i>Biogeographic and bathymetric trends in the seep communities below 1000 m in the northern Gulf of Mexico</i>	Invited Oral Presentation Ocean Sciences Meeting Orlando, FL	2008
<i>Preliminary investigations of the hard-ground communities below 1000 m in the northern Gulf of Mexico</i>	Invited Oral Presentation MMS Information Transfer Meeting New Orleans, LA	2007
<i>Communities associated with <i>Lophelia pertusa</i>, similarity to seep fauna, and potential trophic interactions</i>	Invited Oral Presentation MMS Information Transfer Meeting New Orleans, LA	2007
<i>Relating microbial distribution to geochemical gradients in deep-sea hydrothermal vent chimneys</i>	Oral Presentation Ecology Society of America Memphis, TN	2006
<i>Community ecology of the deep Gulf of Mexico seeps</i>	Invited Oral Presentation Census of Marine ChEss project Barcelona, Spain	2006
<i>Biodiversity and Biogeography of Communities Associated with <i>Lophelia pertusa</i> in the Northern Gulf of Mexico</i>	Oral Presentation International Deep-Sea Coral Symposium Miami, FL	2005
<i>Exploration, biogeography and biodiversity of cold seep fauna in the Gulf of Mexico</i>	Oral Presentation ASLO Ocean Research Conference Honolulu, HI	2004
<i>Cold seep tubeworms meet their high sulfide by enhancing microbial anaerobic methane oxidation and hydrocarbon degradation</i>	Oral Presentation ASLO Ocean Research Conference Honolulu, HI	2004
<i>Biodiversity and biogeography of communities associated with vestimentiferan aggregations in the northern Gulf of Mexico</i>	Poster Presentation RIDGE2000 workshop Southampton, UK	2003
<i>Steady-state diagenetic model of hydrogen sulfide supply to aggregations of the hydrocarbon seep vestimentiferan <i>Lamellibrachia luymsi</i></i>	Poster Presentation ASLO Aquatic Sciences Meeting Salt Lake City UT	2003

<i>Reproductive biology and growth of Anthomastus ritteri (Octocorallia: Alcyonacea) from Monterey Bay</i>	Oral presentation 1 st International Deep-sea Coral Symposium Halifax, Nova Scotia	2000
<i>Reproductive biology and growth of Anthomastus ritteri (Octocorallia: Alcyonacea) from Monterey Bay</i>	Oral presentation Western Society of Naturalists Monterey, CA	1999

WORKSHOPS AND SYMPOSIA

<i>United Nations Open-Ended Informal Consultative Process on Oceans and the Law of the Sea, ICP22: Ocean Observing</i>	Invited Participant United Nations New York NY	2022
<i>Workshop to Coordinate Biological Observing Programs of the UN Decade of Ocean Science</i>	Invited Participant Consortium for Ocean Leadership Washington DC	2022
<i>Advancing Achievements Through Increasing Collaboration in Ocean Sciences Research: Identifying Challenges and Barriers to Successful Collaboration</i>	Invited Panelist Ocean Sciences Meeting (Virtual)	2022
<i>Best Practices and Current Barriers to Sharing Ocean Data</i>	Invited Panelist Community Workshop of the IOC-UNESCO Ocean Best Practices System	2021
<i>Sky Blue: Training for Leaders Working on Environmental Challenges</i>	Selected Participant Common Purpose International	2021
<i>Managing a Thriving Ocean</i>	Invited Panelist Schmidt Ocean Institute Science Symposium	2021
<i>Rooting Out Racism Anti-Racism Training Program</i>	Participant with SIC Board of Directors Service to Justice	2021
<i>Workshop to Identify National Ocean Exploration Priorities in the Pacific</i>	Invited Participant Consortium for Ocean Leadership (virtual)	2020
<i>Cognition and Genomics Seed Seminar</i>	Invited Participant The Ocean Memory Project (virtual) National Academies of Science	2020
<i>Habitat Protection and Ecosystem-Based Management Panel</i>	Invited Speaker South Atlantic Fisheries Management Council Meeting (virtual)	2020

<i>Deep Search Annual Meeting</i>	Organizer and Convener Ocean Sciences Meeting San Diego, CA	2020
<i>Avoidance and Mitigation of Coral and Sponge Species During Exploratory Drilling Activities Offshore Newfoundland and Labrador</i>	Expert External Reviewer Fisheries and Oceans Canada St. Johns, Newfoundland (remote participant)	2020
<i>Cold Seeps of the Eastern Pacific</i>	Symposium co-chair American Geophysical Union San Francisco, CA	2019
<i>Deep Submergence Steering Committee (DeSSC) New User Program</i>	Workshop leader: Proposal Writing UNOLS DESSC Meeting San Francisco, CA	2019
<i>Community Impacts of Oil and Gas Development</i>	Invited Panelist SciLine workshop for journalists State College, PA	2019
<i>GoMRI Core 3 Synthesis workshop: Vulnerability and resilience of species and ecosystems to large-scale events</i>	ECOGIG Deep Benthic Representative Consortium for Ocean Leadership Washington, DC	2019
<i>Revive & Restore project feasibility workshop</i>	Invited Participant The Charles Stark Draper Laboratory Cambridge, MA	2019
<i>Updates from the Field: Connecting Ecosystems and Cultures through Deep-Sea Exploration</i>	Invited Panelist IUCN / DOSI Side Event U.N. Conference on Biodiversity in ABNJ New York, NY	2019
<i>Deep Search Annual Meeting</i>	Organizer and Convener Aquatic Sciences Meeting Portland, OR	2019
<i>Symposium on Transdisciplinary Sustainability Science</i>	Invited Participant Temple University Philadelphia, PA	2018
<i>Environmental Research and Global Change in the 21st Century.</i>	Invited Speaker (representing CST) Temple University Philadelphia, PA	2017
<i>6th International Symposium on Deep-Sea Corals</i>	Chair of Organizing Committee Boston, MA	2016

<i>ShelfReCover: Ecological Restoration of Deep-Sea Coral Populations</i>	Invited Speaker Institut de Ciències del Mar Universitat de Barcelona Barcelona, Spain	2016
<i>Open Access and the Future of Scholarly Publishing</i>	Invited Panelist Temple University Libraries Philadelphia, PA	2016
<i>National Ocean Exploration Forum</i>	Invited Participant Rockefeller University New York, NY	2016
<i>Scientific Experts Forum on Marine Life and Mid-Atlantic Regional Planning</i>	Invited Participant Mid-Atlantic Regional Council on the Ocean Baltimore, MD	2016
<i>Public Policy Forum: Science and Solutions for a Resilient Ocean</i>	Consortium for Ocean Leadership Washington, DC	2016
<i>Deep-Ocean Stewardship Initiative Town Hall</i>	Co-convener Ocean Sciences Meeting New Orleans, LA	2016
<i>Physics, Chemistry, and Ecology of the Deep Gulf of Mexico Following the Deepwater Horizon Oil Spill</i>	Symposium co-chair Ocean Sciences Meeting New Orleans, LA	2016
<i>Southeast Initiative Priority Scoping Workshop</i>	Invited Speaker and Participant NOAA DSCRTP St. Petersburg, FL	2016
<i>Chemosynthetic Ecosystems at the Crossroads</i>	Invited Speaker and Participant Deep Ocean Stewardship Initiative Scripps Institution of Oceanography La Jolla, CA	2015
<i>Deep Ocean Stewardship Initiative Workshop: Information and Planning for the Future</i>	Lead of DOSI Oil & Gas Working Group Deep-Sea Biology Symposium Aveiro, Portugal	2015
<i>Science Communications Workshop</i>	Invited Speaker and Participant Ocean Exploration Trust URI Graduate School of Oceanography South Kingston, RI	2015
<i>Deep-sea Benthos Injury Assessment Meeting</i>	NOAA Technical Working Group Natural Resources Damage Assessment Silver Spring, MD	2015

<i>Telepresence-Enabled Exploration of the Eastern Pacific Ocean</i>	Invited Participant Ocean Exploration Trust San Francisco, CA	2014
<i>Deep Submergence Committee Meeting</i>	Invited Speaker American Geophysical Union San Francisco, CA	2014
<i>Deep-Water Corals as Habitat Areas of Particular Concern</i>	Coral Working Group Gulf of Mexico Fishery Management Council Tampa Bay, FL	2014
<i>Oil Spill Science Seminar for Journalists</i>	Invited Speaker Metcalf Institute Symposium, GoMOSES Mobile, AL	2014
<i>Accelerating the Pace of Ocean Science through Technological Advancement and Open Sharing of Information</i>	Invited Participant Schmidt Ocean Institute Honolulu, HI	2013
<i>Science Communications Workshop</i>	Invited Speaker and Participant Ocean Exploration Trust URI Graduate School of Oceanography South Kingston, RI	2013
<i>Perspectives on the Restoration of the Gulf of Mexico</i>	Symposium co-Chair ASLO Aquatic Sciences Meeting New Orleans, LA	2013
<i>Oil Spill Research Forum</i>	UNH Coastal Response Research Center Baton Rouge, LA	2012
<i>Offshore Restoration Planning Workshop</i>	Invited Participant NOAA Office of Response and Restoration New Orleans, LA	2011
<i>Northeast Deep-Sea Coral Research Needs and Priorities Workshop</i>	Invited Speaker and Participant NOAA DSCRTP NOAA National Marine Fisheries lab Sandy Hook, NJ	2011
<i>Telepresence-Enabled Exploration in the Atlantic Basin</i>	Invited Participant NOAA Office of Ocean Exploration URI Graduate School of Oceanography South Kingston, RI	2011
<i>Deepwater Benthic Communities Trustee Workshop</i>	Invited speaker and Participant NOAA Office of Response and Restoration St. Petersburg, FL	2011

<i>Deep-sea corals and other communities associated with hydrocarbon seeps and polymetallic sulfide deposits</i>	Symposium Chair Aquatic Sciences Meeting San Juan, Puerto Rico	2011
<i>Deepwater Horizon (DWH) Oil Spill Principal Investigator's Conference.</i>	Invited Panelist NSTC Joint Sub-Committee on Ocean Science and Technology St. Petersburg, FL	2010
<i>Energy Issues and Challenges: Post BP Oil Spill.</i>	Invited Panelist Global Interdependence Center Philadelphia, PA	2010
<i>Gulf Oil Spill: Tackling the Chemistry and Food Science Implications</i>	Invited Speaker American Chemical Society Boston, MA	2010
<i>Towards a first global synthesis of biodiversity, biogeography and ecosystem function in the deep sea</i>	Invited Participant and Speaker SynDeep, Census of Marine Life Scripps Institution of Oceanography La Jolla, CA	2008
<i>Roles of Habitat Heterogeneity in Generating and Maintaining Continental Margin Biodiversity</i>	Invited Participant CoMarge, Census of Marine Life Scripps Institution of Oceanography La Jolla, CA	2008
<i>North American Trans-Atlantic Coral Ecosystem Study Planning Workshop</i>	Invited Speaker TRACES program Wilmington, NC	2008
<i>Biogeochemical Interactions at Deep Sea Vents</i>	InterRidge Theoretical Institute Woods Hole Oceanographic Institution Woods Hole, MA	2007
<i>Exploration and Biogeography of Deep-Water Chemosynthetic Ecosystems on the Atlantic Equatorial Belt region: First Results and Planning for Future Research</i>	Invited Participant ChEss program, Census of Marine Life Barcelona, Spain	2006
<i>Biogeography and Biodiversity of Chemosynthetic Ecosystems: Planning for the Future</i>	Ridge 2000 workshop Southampton Oceanography Centre Southampton, UK	2003
<i>Composition of Deep-Water Coral Conservation Statement to the UN</i>	Deep-sea Coral Symposium Halifax, Nova Scotia	2000

AWARDS

Presidential Award for Research and Discovery Office of the President, Temple University	2020
Discovery and Innovation Leadership Award College of Science and Technology, Temple University	2018
Paper of the Year Award (Quattrini et al. 2017, <i>Oecologia</i> 183: 221-236) Deep-Sea Biology Society	2017
Dean's Distinguished Award for Excellence in Research College of Science and Technology, Temple University	2015
Outstanding Reviewer <i>Deep-Sea Research I</i>	2015
William Caldwell Memorial Distinguished Mentoring Award College of Science and Technology, Temple University	2014
Excellence in Partnering Award NOPP (for the BOEM/NOAA/USGS <i>Lophelia II</i> Deepwater Program)	2011
Cooperative Conservation Service Award Department of the Interior (for the MMS/NOAA OE Deep Gulf Habitats Project)	2007
Best Student Poster Award ASLO Aquatic Sciences Meeting, Salt Lake City, UT	2003

RESEARCH EXPEDITION EXPERIENCE

I have participated in 34 research cruises (14 as Chief Scientist) consisting of 83 weeks at sea including 47 submersible dives and 329 working days at sea with ROVs and AUVs. I have organized, led, and provided shoreside support for telepresence cruises on the NOAA Ship Okeanos Explorer and the E/V Nautilus, and I also participated in numerous day trips on board the R/V Point Sur and R/V Point Lobos during my work at Moss Landing Marine Labs.

2022: Puerto Rico Trench, Alvin Science Verification Expedition, Chief Scientist: Adam Soule
RV Atlantis, HOV Alvin, 1 submersible dive, 8 days at sea

2022: Caribbean Sea, Puerto Rico, NOAA OER, Chief Scientist: Andrea Quattrini
NOAA Ship Nancy Foster, ROV Global Explorer, 15 days at sea

2019: U.S. Mid-Atlantic, BOEM and NOAA OER: Deep Search, Chief Scientist: Erik Cordes
NOAA Ship Ron Brown, ROV Jason, 7 days at sea.

2019: Costa Rica Margin, Schmidt Ocean Institute and NSF, Chief Scientist: Erik Cordes
RV Falkor, ROV SuBastian, 21 days at sea

2018: Costa Rica Margin, NSF, Chief Scientist: Erik Cordes
RV Atlantis, HOV Alvin, AUV Sentry, 4 submersible dives, 21 days at sea

2018: U.S. Mid-Atlantic, BOEM and NOAA OER Deep Search, Chief Scientist: Erik Cordes
RV Atlantis, HOV Alvin, 2 submersible dives, 14 days at sea

2017: Phoenix Islands, Schmidt Ocean Institute and NOAA OER, Chief Scientist: Erik Cordes

RV Falkor, ROV SuBastian, 29 days at sea.

2017: Costa Rica Margin, NSF, Chief Scientist: Erik Cordes
RV Atlantis, HOV Alvin, AUV Sentry, 4 submersible dives, 21 days at sea

2016: Gulf of Mexico, GoMRI ECOGIG II, Chief Scientist: Erik Cordes
RV Ocean Inspector, ROV Global Explorer, 7 working days at sea

2015: Gulf of Mexico, GoMRI ECOGIG II, Chief Scientists: Chuck Fisher, Erik Cordes
EV Nautilus, ROV Hercules, 17 days at sea

2014: Anegada Passage, Caribbean Sea, NOAA OER, Chief Scientist: Amanda Demopoulos
EV Nautilus, ROV Hercules, 12 days at sea

2014: Gulf of Mexico, NSF Ocean Acidification Program, Chief Scientist: Erik Cordes
RV Atlantis, HOV Alvin, AUV Sentry, 3 submersible dives, 18 days at sea

2013: Gulf of Mexico, GoMRI ECOGIG consortium, Chief Scientist: Erik Cordes
EV Nautilus, ROV Hercules, 14 days at sea

2012: Gulf of Mexico, RV Falkor Science Shakedown Cruise, Chief Scientist: Peter Etnoyer
RV Falkor, ROV Global Explorer, 17 days at sea

2011: Gulf of Mexico, NRDA, Chief Scientist: Erik Cordes
RV Holiday Chouest, Schilling UHD ROV, 15 days at sea

2010: Gulf of Mexico, NSF RAPID Oil Spill Response, Chief Scientist: Chuck Fisher
RV Atlantis, DSV Alvin, AUV Sentry, 1 submersible dive, 10 days at sea

2010: Gulf of Mexico, Lophelia II, Chief Scientist: Erik Cordes
NOAA Ship Ron Brown, ROV Jason II, 10 days at sea

2010: Gulf of Mexico, NRDA, Chief Scientists: Chuck Fisher, Amanda Demopoulos
NOAA Ship Nancy Foster, ROV Global Explorer, 7 days at sea

2009: Gulf of Mexico, Lophelia II, Chief Scientists: Chuck Fisher, Erik Cordes
NOAA Ship Ron Brown, ROV Jason II, 24 days at sea

2009: Costa Rica Margin, Methane-Derived Carbonates, Chief Scientist: Lisa Levin
RV Atlantis, DSV Alvin, 1 submersible dive, 14 days at sea

2008: Gulf of Mexico, Lophelia II: Reefs, Rigs and Wrecks, Chief Scientist: Erik Cordes
NOAA Ship Nancy Foster, SeaView Falcon DR ROV, 14 days at sea

2007: Juan de Fuca Ridge, Thermal Biology of *Paralvinella*, Chief Scientist: Ray Lee
RV Atlantis, DSV Alvin, 1 submersible dive, 12 days at sea

2007: Gulf of Mexico, Expedition to the Deep Slope, Chief Scientist: Chuck Fisher
NOAA Ship Ron Brown, ROV Jason II, 32 days at sea

2006: Gulf of Mexico, Expedition to the Deep Slope, Chief Scientist: Chuck Fisher
RV Atlantis, DSV Alvin, 4 submersible dives, 27 days at sea

2005: Gulf of Mexico, Lophelia I, Chief Scientist: Steve Viada
RV Seward Johnson, DSV Johnson Sea-Link, 3 submersible dives, 16 days at sea

2004: Gulf of Mexico, Lophelia I, Chief Scientist: Steve Viada
RV Seward Johnson, DSV Johnson Sea-Link, 2 submersible dives, 16 days at sea

2004: Gulf of Mexico, Physiological Ecology of Vestimentiferans, Chief Scientist: Chuck Fisher
RV Seward Johnson, DSV Johnson Sea-Link, 6 submersible dives, 22 days at sea

2003: Gulf of Mexico, Exploration of Chemosynthetic Ecosystems, Chief Scientist: Bob Carney
RV Atlantis, DSV Alvin, 1 submersible dive, 12 days at sea

2003: Gulf of Mexico, Physiological Ecology of Vestimentiferans, Chief Scientist: Chuck Fisher

RV Seward Johnson, DSV Johnson Sea-Link, 5 submersible dives, 24 days at sea
2002: East Pacific Rise, Hydrothermal Vent Physiology, Chief Scientist: Chuck Fisher
RV Atlantis, DSV Alvin, 1 submersible dive, 28 days at sea
2002: Gulf of Mexico, Reproduction in Cold Seep Mussels, Chief Scientist: Craig Young
RV Seward Johnson, DSV Johnson Sea-Link, 2 submersible dives, 10 days at sea
2002: Gulf of Mexico, Physiological Ecology of Vestimentiferans, Chief Scientist: Chuck Fisher
RV Seward Johnson, DSV Johnson Sea-Link, 4 submersible dives, 24 days at sea
2001: Gulf of Mexico, Life in Extreme Environments, Chief Scientist: Patty Sobecky
RV Seward Johnson, DSV Johnson Sea-Link, 2 submersible dives, 28 days at sea
1995: San Diego Trough, Feeding Ecology of Ophiuroids, Chief Scientist: Gordon Hendler
RV Laney Chouest, DSV SeaCliff, ROV Turtle, 18 working days at sea

TEACHING

COURSES TAUGHT

Temple University

2008 - present

CST First Year Seminar (SCTC 1001)
Introduction to Organismal Biology (Biol 1111)
Honors Introductory Biology (Biol 1911)
Experimental Marine Biology (Biol 3244)
Marine Ecology (Biol 3245)
Introduction to Graduate Research (Biol 8003)
Graduate Seminar: Broader Impacts: The Art of Science Communication
Graduate Seminar: Climate Change and the Global Ocean
Graduate Seminar: Deep-Sea Biology
Graduate Seminar: Experiments in Ecology
Graduate Seminar: Metacommunity Theory
Graduate Seminar: Mutualistic Symbiosis
Graduate Seminar: Oceanography
Graduate Seminar: Use of Stable Isotopes in Ecology

Hartnell College (Salinas, CA)

1996 - 2000

Marine Biology (Bio 30)
General Biology (Bio 10)

MENTORSHIP

Current Graduate Students

Melissa Betters, Temple University Graduate Fellow	2018-present
Emily Cowell	2018-present
Ryan Gasbarro, Temple University Presidential Fellow	2018-present
April Stabbins	2017-present

Current Undergraduate Students

Madeline Evanson	2021-present
Kelly Meinert, Temple University Honors Program	2021-present
Sara Vahdatshoar, Temple University Honors Program	2021-present
Jordan Wenning, Temple University Honors Program	2021-present
Josephine Williams, Temple University Honors Program	2021-present

Current Graduate Thesis Committees

Chris Carnivale	Temple Biology, Dr. Robert Sanders
Nayara Ferreira Carvalho	University of São Paulo, Dr. Paulo Sumida
Mary Cortese	Temple Biology, Dr. Amy Freestone
Lauren Rice	Oregon Institute of Marine Biology, Dr. Craig Young
Avery Selberg	Temple Biology, Dr. David Liberles
Andrew Van Kuren	Temple Biology, Dr. Robert Sanders

Former Post-Docs

Amanda Glazier	2016-2020
Visiting Professor at Haverford College	
Jay Lunden	2019-2020
STEM Educational Development Specialist, University of Delaware	
Bénédicte Ritt	2011-2012
Marine Environment Specialist, SETEC en Vivo, France	

Former Graduate Students

Steve Auscavitch, Ph.D.	2015-2020
Data Manager, Ocean Exploration Trust	
Danielle DeLeo, Ph.D., GoMRI Scholar	2012-2016
Post-Doctoral Researcher, Smithsonian Institution	
Alanna Durkin, Ph.D., CST Outstanding Teaching Assistant	2012-2018
Adjunct Faculty at Temple University	
Samuel Georgian, Ph.D., NSF Pre-Doctoral Fellow	2010-2016
Marine Biogeographer, Marine Conservation Institute, Seattle WA	
Carlos Gomez, Ph.D., Fulbright Foreign Student Program	2010-2016

Research Associate, Universidad de los Andes, Colombia	
Michele Grinar, M.S., NSF Scientists as Teachers Fellow	2009-2011
Adjunct Faculty, Penn State Abington	
Jay Lunden, Ph.D., NSF Bridge to Doctorate Fellow	2008-2013
Adjunct Faculty, Temple University	
Andrea Quattrini, Ph.D., NOAA Nancy Foster Scholar	2009-2014
Curator of Invertebrates, NMNH, Smithsonian Institution	
Alexis Weinnig, Ph.D.	2015-2020
Post-Doctoral Researcher, USGS, Leetown, West Virginia	

Former Lab Managers / Technicians

Abigail Keller	2017-2019
Masters student in Marine Policy at University of Washington	
Veronica Radice, Ph.D., University of Queensland	2012-2013
Post-Doctoral Research Fellow at University of Queensland, Australia	
Natasha Remon	2011
Leslie Wickes, M.A., College of Charleston	2008-2010
Senior Consultant at CASE Consultants International	

Former Undergraduate Students (48)

Chelsea Alvarado (2013) Diamond Peer Teacher; Khrystyna Babenko (2017), Presidential Scholar; **Alexandria Barkman (2013-2016)** NOAA Hollings Scholar, Charles Hodge IV Prize in Biology, Ph.D. Candidate at University of Hawaii; Alene Brunkhurst (2012) Diamond Peer Teacher; Adam Butler (2013-2014); Luke Byrnes (2009) Florence Berg Scholar; **Sabatino Campellone (2010)**; Sarah Chan (2020) Diamond Peer Teacher; **Hee Jin Chung (2018-2020)** Temple University Merit Scholar, M.S. student at UC Davis; **Heather Cichowic (2014-2015)**; **Daniel Deegan (2016-2018)** Diamond Research Scholar, CST URP; Mary Deere (2018-2020) Frances Velay Fellow; **Matt Dickisson (2009)**; **Cheryl Doughty (2010-2012)** CST URP, **2011 Dean's Scholar, 2012 Deep-Sea Coral Symposium Best Poster, 2012 CST Rachel Carson Award, M.S. from Villanova, Ph.D. Candidate at UCLA**; Shannon Dwyer, CST Undergraduate Research Program, Ph.D. Candidate at Rowan University, **Salma El-Ashry (2011)** CST URP; **Lisa English (2011-2012)** CST URP; **Bonnie Evans (2009)**; **Rosalia Falco (2010-2012)** CST URP, M.S. from Northeastern University, Research Technician at Ocean Genome Legacy Center; **Holly Fowle (2012-2014)** NOAA Hollings Scholar; **Chloe Glynn (2012-2014)** McNair Scholars Program; **Aubrey Haggerty (2017)**, Presidential Scholar; **Adam Hallaj (2017-2019)** CST Undergraduate Research Program, Laboratory Technician at Auburn University; **Jessica Hart (2016-2017)**, CST Natan Luehrmann-Cowen Memorial Award; **Sarah Kazarnowicz (2009-2012)** Charles Hodge IV Prize in Biology; **Lyanna Kessler (2016-2017)** Charles Hodge IV Prize in Biology, Research Specialist at Penn Medicine; **Lucas Kresmien (2018)** CST URP; **Melissa Kurman (2013-2015)** CST URP, **2015 Harrison Award, M.S. Candidate at Cal State Northridge**; **Thuyvi Luong (2011)** Diamond Peer Teacher; **Alex Margolin (2019-2022)** Temple University Honors Program, **Conall McNicholl (2011-2013)** Ph.D. from Florida Atlantic University; **Ahmed Mirza (2015)** Presidential Scholar; **Priya Nigam (2019)** Diamond Peer Teacher; **Samuel Nguyen (2014-2016)**

CST URP; **Seren Palacio**, Frances Velay Scholar (2021); **Madison Peschen** (2018) Diamond Peer Teacher; **Megan Platt** (2016-2017) Presidential Scholar; **Helen Reukert** (2017) Diamond Peer Teacher; **Dana Jean Russel** (2014-2015) Presidential Scholar, NOAA Hollings Scholar; **Mak Sarich** (2011) CST URP; **Carolyn Schew** (2014) Presidential Scholar; **Madison Schwaab** (2016-2017) Presidential Scholar, **Frances Velay Fellow**, Master's Student at University of South Florida; **Chris Sears** (2011-2012); **Ellen Skelton** (2016) NOAA Hollings Scholar, UNC Wilmington; **Kate Songile** (2009) Diamond Scholar, M.A. from John's Hopkins; **Alex Stevens** (2012); **Kari Strouse** (2015-2016) Merit Scholar, Ph.D. candidate at Duke University; **Jeff Turner** (2008-2009)

Former Graduate Thesis Committees

Sarah DeVaul, Ph.D.	Temple Biology, Dr. Bob Sanders
Janessy Frometa, M.S.	College of Charleston, Dr. Peter Etnoyer
Erin Graham, Ph.D.	Temple Biology, Dr. Bob Sanders
Lara Henry, Ph.D.	University of South Florida, Dr. Jose Torres
Jenna Hoffman, M.A.	UPenn, Masters of Integrated Science Education
Nicole Masouchova, Ph.D.	Temple Biology, Dr. Tonia Hsieh
Zaid McKie-Krisberg, Ph.D.	Temple Biology, Dr. Bob Sanders
Katherine Papacostas, Ph.D.	Temple Biology, Dr. Amy Freestone
Janne Pfeifenberger, Ph.D.	Temple Biology, Dr. Tonia Hsieh
Elizabeth Reilly, Ph.D.	Temple Biology, Dr. Amy Freestone
Michele Repetto	Temple Biology, Dr. Amy Freestone
Kim Reuter, Ph.D.	Temple Biology, Dr. Brent Sewall
Grier Sellers, Ph.D.	Temple Biology, Dr. Bob Sanders

SERVICE

SCIENTIFIC COMMUNITY

Science Evaluation Board	Rick Sanger, Alvin Pilot Certification Woods Hole Oceanographic Institution	2022
Steering Committee	Challenger-150 UN Ocean Decade Program	2021-present
Trustee for Development	Deep-Sea Biology Society	2021-present
Integrated Research Team co-Lead	N2N GoM US-Mexico Partnership Organization	2021-present
Promotion Review Panelist	National Museum of Natural History Smithsonian Institution	2021

Proposal Review Panelist	Revive & Restore Wild Genomes	2021
Early Career Mentor	Deep-Sea Biology Society	2020-present
Expert Reviewer	IPCC Report, Chapter 3: Oceans and Coastal Ecosystems	2020-2021
Associate Editor	Frontiers in Marine Science Deep-Sea Environments and Ecology	2019-present
Scientific Steering Committee	7 th International Symposium on Deep-Sea Corals Cartagena, Colombia	2019
Health + Science Advisory Group	WHYY, NPR/PBS Philadelphia	2018-present
Core Team	Deep Ocean Stewardship Initiative	2018-present
Science Evaluation Board	Danik Forsman, Alvin Pilot Certification Woods Hole Oceanographic Institution	2022
Pool of Experts	2 nd U.N. World Ocean Assessment	2017-2021
Editorial Board	PeerJ	2017-present
ROV/AUV Science Advisory Group	Schmidt Ocean Institute	2015-2016
Founder and Chair	Offshore Energy Working Group Deep Ocean Stewardship Initiative	2014-present
Review Editorial Board	Frontiers in Marine Science Marine Ecosystem Ecology	2014-present
Coral Working Group	Gulf of Mexico Fishery Management Council	2014-2017
Pool of Experts	1 st U.N. World Ocean Assessment	2013-2015
Review Editorial Board	Frontiers in Microbiology Microbial Symbiosis	2013-present
Governing Board	Deep-Sea Biology Society	2013-2014
Board of Directors	Star Island Corporation Isles of Shoals, New Hampshire	2012-2021
Restoration Planning Team Deep Benthic Communities	NOAA Office of Response and Restoration	2012-2018
Deepwater Communities Technical Working Group	NOAA Office of Response and Restoration	2010-2016

Science Evaluation Board	Sean Kelley, Alvin Pilot Certification Woods Hole Oceanographic Institution	2009
Steering Committee Chemosynthetic Ecosystems	Census of Marine Life	2009-2010
Rutledge Marine Lab Advisory Committee (Chair in 2010)	Star Island Corporation Isles of Shoals, New Hampshire	2004-2021
Student Representative Senior Ecologist Faculty search committee	Penn State University	2002

TEMPLE UNIVERSITY (* indicates elected position)

Faculty Advisor SPROUT (Science Preparatory Research Opportunities for Underrepresented Teens)	College of Science and Technology	2021-present
Chair, Outreach & Engagement Committee	Department of Biology	2021-2022
Chair, Undergraduate Committee	Department of Biology	2021-2022
Advisory Board Center for Online & Digital Learning	College of Science and Technology	2020-2021
Selection Committee Science Scholar Program	College of Science and Technology	2019
Selection Committee Faculty Teaching Awards	College of Science and Technology	2019
Mission and Goals Working Group Middle States Accreditation	Temple University	2018-2020
Search Committee Vice Provost for Undergraduate Studies	Temple University	2017
Graduate Committee	Department of Biology	2017
Faculty Editorial Board, <i>Maneto</i>	Temple University	2016-present
Personnel & Policies Committee*	Department of Biology	2016-2018
Merit Committee	College of Science and Technology	2016
New Building Committee (ad hoc)	Department of Biology	2015
Faculty Responsibility Committee (ad hoc)	College of Science and Technology	2015
Oversight Committee* University Honors Program	Temple University	2014-2021
Chair, Tenure and Promotion Committee	Department of Biology	2014

NSF GFRP Writing Workshop	Temple University	2014
Faculty Search Committee Conservation Biology	Department of Biology	2014
Steering Committee Water Resources Initiative	Temple University	2011-2012
Faculty Search Committee Integrative Biology	Department of Biology	2011-2012
Steering Committee Environmental Sciences Program	Temple University	2010-present
Personnel & Policies Committee*	Department of Biology	2010-2012
Faculty Search Committee Integrative Biology	Department of Biology	2010-2011
Faculty Search Committee, Ecology	Department of Biology	2008-2009

PEER REVIEW

Manuscript Review

Aquatic Conservation, Biogeosciences, Biological Conservation, Biological Journal of the Linnean Society, Bulletin of Marine Science, Continental Shelf Research, Coral Reefs, Deep-Sea Research I, Deep-Sea Research II, Diversity and Distributions, Ecological Modeling, Ecology, Ecology Letters, Ecosphere, Environmental Microbiology, Environmental Management, FACIES, FEMS Microbiology Ecology, Frontiers in Marine Science, Frontiers in Microbiology, Geobiology Journal, Geology, Geophysical Research Letters, Global Change Biology, Hydrobiologia, ICES Journal of Marine Science, ISME Journal, Journal of Environmental Policy and Planning, Journal of the Marine Biological Association of the UK, Journal of Marine Systems, Journal of Toxicology and Environmental Health, Limnology & Oceanography, Marine Biology, Marine Biology Research, Marine Ecology, Marine Ecology Progress Series, Marine Environmental Research, Marine Geology, Microbial Ecology, Molecular Ecology, Nature, Naturwissenschaften, Oceanography, Oecologia, PeerJ, PLoS: ONE, Proceedings of the Royal Society B, Progress in Oceanography, Science, Scientific Reports, Zoological Journal of the Linnean Society.

Proposal Review

Australia Marine National Facility, Austrian Science Fund, Fondecyt (Chile), German Research Foundation, National Geographic Society, Netherlands Organization for Scientific Research, UK National Environmental Research Council, NOAA OER, NSF (BIO-OCE, CAREER, EPSCoR, IOS, MG&G, OCE-Ocean Tech, OCE-RIG), Portugal Foundation for Science and Technology, Review Panel German Research Vessels, Schmidt Ocean Institute, South Africa National Research Foundation

Environmental Impact Assessment Review

Comment on the External Evaluation of the Appeals to the Permit granted to Eni and Sasol for Drilling in Offshore Block ER236, KZN, South Africa	2021
EIA for SNE Field Development Phase I, Senegal, by Woodside (development lead) prepared by Earth Systems SARL and Xodus Group	2021
Independent Forensic Assessment of Environmental Pollution in Bayelsa State, Nigeria by Dr. Allan Jamieson and Commissioned by the Bayelsa State & Oil Environmental Commission	2021
EIA for Payara Development Project, Guyana by Esso Exploration and Production Guyana, Ltd.	2020
EIA for Exploration Drilling in Offshore Block ER236, KZN, South Africa by Eni South Africa BV (Eni), and Sasol Africa Limited (Sasol)	2019

PUBLIC OUTREACH

Invited Panelist	<i>Back Ashore: Costa Rica, FK190106</i> Live web event hosted by Schmidt Ocean Institute	2022
Invited Opinion	<i>Climate Change: The deep ocean protects us from ourselves, for now.</i> The Hill, August 11	2021
Invited Opinion	<i>The 'Eye of Fire' in the Gulf and a path forward away from fossil fuels.</i> The Hill, July 18	2021
Invited Speaker	<i>All Star II Conference</i> Week-long public conference with four interactive seminars Star Island, Isles of Shoals, NH	2021
Invited Panelist	<i>Changing Seas: A Decade After Deepwater</i> Virtual Panel Discussion following film premiere screening	2020
Invited Speaker	<i>Critical Dialogues: Art and Science</i> Tyler School of Art Temple University	2020
Invited Panelist	<i>Creating Change Through Art & Action</i> 24 Hours of Reality: Global Climate Change Awareness Hot Bed Studio, Philadelphia, PA	2019
Featured Scientist	<i>Creatures of the Deep</i> , "Expert is In" Program Smithsonian National Museum of Natural History Washington, D.C.	2019

Invited Speaker	<i>Cephalopod Movie Night</i> Science Friday @ Johnny Brenda's Philadelphia, PA	2019
Web coverage	DEEP SEARCH expedition, NOAA Ship <i>Ronald Brown</i> NOAA Ocean Explorer (signature expedition)	2019
Web coverage	Costa Rica Deep-Sea Connections Schmidt Ocean Institute	2019
Public seminar	<i>Bringing Light to the Depths of the Ocean</i> "Starry Night" benefit for Star Island Corporation Portsmouth, NH	2018
Web coverage	DEEP SEARCH expedition, R/V <i>Atlantis</i> NOAA Ocean Explorer	2018
Art Exhibition	<i>Painting the Deep</i> , Lily Simonson Featuring work from 2017 expedition to Costa Rica Harvard Museum of Natural History	2018
Documentary Film	<i>The Most Unknown</i> , Ian Cheney, Vice Media Scenes shot during 2017 expedition to Costa Rica Premiered at Copenhagen International Film Festival	2018
Documentary Film	<i>Acid Horizon</i> , Ivan Hürzeler, Gravitas Ventures Based on NSF Ocean Acidification research Premiered at the Santa Barbara International Film Festival	2018
Web Coverage	<i>Discovering Deep-Sea Corals of the Phoenix Islands</i> NOAA Ocean Explorer and Schmidt Ocean Institute featured on IFLScience Facebook Live page (630,000 views) Webinar and live interactions (11 classrooms and 400 students)	2017
Webinar	<i>Environmental Impacts of Offshore Oil and Gas</i> BOEM and BSEE	2017
Featured Scientist	<i>Be a Marine Biologist Day</i> , Philadelphia Science Festival Wagner Free Institute of Science Philadelphia, PA	2017
Public Interaction	Ocean Discovery Zone booth Philadelphia Science Festival Carnival Philadelphia, PA	2017
Featured Scientist	<i>Nerd Nite</i> , Rumours Nightclub, Ala Moana Hotel Ocean Sciences Meeting Honolulu, HI	2017
Interview	<i>Out of This World</i> , <u>Careers with Science</u> magazine 25,000 copies Distributed to every High School in Australia	2016

Webinar	<i>Understanding the Deep Sea in the Anthropocene</i> Ocean Conservancy	2016
Public Interaction	<i>The Science Behind Pixar</i> , Science After Hours The Franklin Institute, Philadelphia, PA	2016
High School Seminar	<i>Introduction to Marine Ecosystems</i> Lincoln High School, Philadelphia, PA	2016
Telepresence	ECOGIG expedition, E/V <i>Nautilus</i> Nautilus Live and Exploration Now 121,000 visitors, 3750 simultaneous visits	2015
Public Seminar	<i>Human Impacts on Life in Extreme Environments</i> Philly ThinkFest, Philadelphia Magazine Drexel University, Philadelphia, PA	2014
Public Seminar	<i>Great Gigs</i> , Philadelphia Science Festival Live presentation via Skype from the R/V <i>Atlantis</i>	2014
Web Coverage	NSF-SEES Ocean Acidification expedition, R/V <i>Atlantis</i> <i>Acid Horizon</i> Facebook Page	2014
Subject Expert	<i>Ocean Portal</i> Smithsonian National Museum of Natural History	2014
Telepresence	ECOGIG expedition, E/V <i>Nautilus</i> Nautilus Live and Exploration Now 8,300 visitors, 6000-8000 through live interactions	2013
Interview	for Halbert T, & Ingulli E. (2014) <i>Law and ethics in the business environment</i> , Cengage Learning	2013
Public Seminar	<i>Great Gigs</i> , Philadelphia Science Festival Drexel University, Philadelphia, PA	2013
Public Seminar	<i>Why We Explore the Deep Sea</i> TEDx, Temple University Philadelphia, PA	2013
Public Seminar	<i>Science Superheroes</i> Philadelphia Science Festival Chemical Heritage Foundation, Philadelphia, PA	2012
Elementary Lecture	Brooklyn Friends School Brooklyn, New York	2011
Public Seminar	<i>Deepwater Impacts of the Deepwater Horizon</i> Isles of Shoals, New Hampshire	2011
Web coverage	NSF RAPID expedition, R/V <i>Atlantis</i> Dive and Discover website, WHOI	2010

Public Seminar	<i>Creatures of the Abyss</i> Academy of Natural Sciences, Philadelphia, PA	2010
Scientific Consultant	<i>Journey into the Deep: Discovering New Ocean Creatures</i> Children's book (grades 4-6) by Rebecca Johnson Lerner Publishing Group, Minneapolis, MN	2010
Web Coverage	BOEM-OER <i>Lophelia II</i> expedition, NOAA Ship <i>Ronald Brown</i> NOAA Ocean Explorer (signature expedition)	2010
Scientific Expert	<i>Bringing Deep-sea Science into the Earth Science Classroom</i> FLEXE Forum for 15 High School teachers University of Southern Mississippi	2009
Blog	<i>Reflections on the Johnson Sea-Link: Dr. Cordes</i> Deep-Sea News	2009
Web Coverage	MMS-OER <i>Lophelia II</i> expedition, NOAA Ship <i>Ronald Brown</i> NOAA Ocean Explorer (signature expedition)	2009
Web Coverage	MMS-OER <i>Lophelia II</i> expedition, NOAA Ship <i>Nancy Foster</i> NOAA Ocean Explorer (signature expedition)	2008
Web Coverage	MMS-OER <i>Chemo III</i> , NOAA Ship <i>Ronald Brown</i> NOAA Ocean Explorer (signature expedition)	2007
Web Coverage	MMS-OER <i>Chemo III</i> , R/V <i>Atlantis</i> NOAA Ocean Explorer (signature expedition)	2006
Lesson Plan	Classroom to Sea laboratory SEAS (Student Experiments at Sea) program	2006
Scientific Consultant	<i>Worm World</i> Children's book (grade 7) by Randi Mehling Newbridge Educational Publishing, New York, NY	2004
Public Seminar	<i>A dive in the deep: Life at hot vents and cold seeps</i> Isles of Shoals, New Hampshire	2003
Web Coverage	NOAA OER <i>Chemosynthetic Life</i> R/V <i>Seward Johnson</i> NOAA Ocean Explorer (signature expedition)	2002

MEDIA COVERAGE OF RESEARCH PROGRAM

<i>There's a lot we don't know about the International Space Station's ocean grave</i>	Popular Science February 23, 2022
<i>Deep-sea scientist says Yellowtail environmental study deficient</i>	Stabroek News, Guyana December 18, 2021

<i>New fronts in the fight against climate change</i>	WHYY, Philadelphia October 22, 2021
<i>What a songbird taught me about survival</i>	Audubon Society Magazine March 24, 2021
<i>Deep SEARCHing for Science</i>	EOS Magazine, Coral Reefs 2020 issue July, 2020
<i>Changing Seas: A Decade After Deepwater</i>	South Florida PBS June 24, 2020
<i>Deep Impact: Corals in the depths of the Gulf suffered a direct hit from the spill but some are showing signs of resilience</i>	National Wildlife Magazine February-March 2020
<i>OIL DRILLING: A large spill or blowout would have major consequences for the marine environment</i>	South Coast Herald (South Africa) November 14, 2019
<i>Greens block oil exploration plan off KZN</i>	South Africa Sunday Times October 27, 2019
<i>Chasing The Methane Dragon That Lurks In The Deep Sea</i>	Huffington Post September 2, 2019
<i>Lessons From the BP Oil Spill: A Reading List</i>	Pacific Standard August 6, 2019
<i>No light, no problem: The improbable wonders of deep-sea coral</i>	Christian Science Monitor August 2, 2019
<i>Good and Bad News Found off the Costa Rica Coast</i>	The Costa Rica Star July 3, 2019
<i>Strange Deep-sea Tubeworms Discovered for First Time Off North Carolina's Atlantic Coast</i>	Newsweek May 9, 2019
<i>Scientists Just Discovered A Bizarre Deep-Sea Tubeworm Off the Atlantic Coast</i>	Huffington Post May 8, 2019
<i>Blue Planet Live, episode 4 of season 1</i>	BBC Television March 31, 2019
<i>New Deep Sea Animal Discoveries Warrant Expanded Protections in Costa Rican Water</i>	SevenSeas Magazine, Issue 47 March 2019
<i>Scientists discover 8 "amazing" new sea creatures in Costa Rica</i>	Fox News February 13, 2019
<i>Spooky New Photos Show the Alien Creatures of the Deep Ocean</i>	Gizmodo February 7, 2019
<i>Atlantic Coral Reef Discovery Raises Questions About Looming Seismic Surveys</i>	Huffington Post December 7, 2018

<i>5 Awe-Inspiring Ocean Discoveries of 2018</i>	Ocean Conservancy November 26, 2018
<i>Inside the quest to discover super-corals at the bottom of the sea</i>	Gizmodo/Earther November 22, 2018
<i>'Unbelievable' Deep Coral Reef Discovered Off South Carolina Coast</i>	The Weather Channel August 29, 2018
<i>Huge deep-sea coral reef discovered off the South Carolina coast</i>	NBCNews.com August 29, 2018
<i>Scientists discovered a coral reef — almost as long as Delaware — hidden off the coast of Charleston</i>	The Washington Post August 28, 2018
<i>Scientists Discover Giant Deep-Sea Coral Reef Off Atlantic Coast</i>	The Huffington Post August 25, 2018
<i>These Scientists Are Exploring Uncharted Ecosystems Deep In The Atlantic Ocean</i>	The Huffington Post August 22, 2018
<i>This Coral Must Die (Cover of the Science section)</i>	The New York Times June 25, 2018
<i>Deep Sea Wonders</i>	NIHERST, Trinidad and Tobago April 7, 2018
<i>Voyage to the Phoenix Islands</i>	Daily Planet, Discovery Channel Canada January 2, 2018
<i>Lake of the Dead, Season 1, Episode 8</i>	Strange Evidence, Science Channel Originally aired December 5, 2017
<i>Gulf's Mysterious Deep Corals Reveal Oil Spill's Slow-Motion Damage</i>	Oceans Deeply, News Deeply November 27, 2017
<i>Scientists are back from one of the most remote locations on Earth</i>	The Weather Channel November 10, 2017
<i>All Things Marine Radio Show Podcast</i>	COSEE Island Earth and University of Hawaii Originally aired October 17, 2017
<i>Is this Gulf of Mexico tubeworm the longest living animal in the world?</i>	Science Daily July 17, 2017
<i>In the depths of the oceans, business as usual takes a toll</i>	Ensia Magazine July 7, 2017
<i>A Deeper Dive. World Without Temple campaign</i>	Temple University website June 6, 2017
<i>Scientists Discover A Lake Under The Sea: Those Who Swim There Never Come Back Alive</i>	IFLScience Oct 31, 2016

<i>Uncharted waters: Restoring deep Gulf fouled by BP spill</i>	Associated Press May 30, 2016
<i>Deep-Sea brine lake dubbed “Jacuzzi of Despair”</i>	Discovery News May 5, 2016
<i>Temple researchers say dispersant used to clean 2010 oil spill was at least as toxic to corals as the oil</i>	WHYY, Philadelphia April 2, 2015
<i>Deepwater Horizon oil spill casts wider net in harming coral</i>	WHYY, Philadelphia July 30, 2014
<i>Coral Damage Goes Deeper in Gulf of Mexico’s Oil Spill Zone</i>	NBC News July 28, 2014
<i>Lightning storms, oil rig interference and other research challenges below the Gulf of Mexico</i>	The Pulse, WHYY, Philadelphia June 5, 2014
<i>After the Oil Spill</i>	Enzia Magazine June 2, 2014
<i>500 meters down, a deep-sea researcher describes what he sees</i> Live interview from the Alvin submersible	WHYY, Philadelphia May 8, 2014
<i>Temple scientists hit Gulf of Mexico to explore human-generated deep-sea acidification</i>	The Pulse, WHYY, Philadelphia April 24, 2014
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