



CHRISTINA KELLOGG

CANDIDATE STATEMENT

It would be my honor to serve you as an At-Large Director. I bring a decade of experience (2007-2017) in ASM leadership from a major transition period (onboarding new CEO and some director-level positions, first implementation of open-access publishing, roll out of new communication plan and online platform, restructuring of governance). This experience provides me with institutional knowledge and a deep appreciation for the many ASM programs. I see the Society positioned to innovate new tools and services that facilitate the changing world of open access publishing, data-sharing requirements, and data infrastructure improvement. These key areas are critical to support a vast array of microbial sciences, both clinical and environmental. How available, accessible, and cost-effective these processes become heavily influences the equitability of those activities for our global membership.

ASM-RELATED ACTIVITIES

- American Academy of Microbiology Fellow, elected 2021
- ASM Communications Committee Strategic Planning Retreat, 2014
- ASM Finance Committee, Member, 2013–2016
- Council Policy Committee, At-Large Branch Representative, 2011–2017
- ASM Florida Branch, Officer (Councilor, Secretary, President-elect, President, National Councilor), 2001–2011

CHRISTINA A. KELLOGG

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Professional Preparation

Georgetown University	Biology	BS (Cum Laude), 1991
University of South Florida	Marine Microbiology ,	Ph.D., 1998
Georgetown Univ. Medical Center	Medical Mycology	Post-doc 1998 – 2001
United States Geological Survey	Environmental Microbiology	Post-doc 2001 - 2006

Appointments

United States Geological Survey
February 2006 – Present
Research Microbiologist, Principal Investigator, Senior Scientist

Honors and Awards

2021, Elected to the American Academy of Microbiology

2020, American Society for Microbiology Service Award

2018, Rudi Lemberg Travelling Fellowship from Australian Academy of Science

2015, Excellence in Partnering Award, National Oceanographic Partnership Program (NOPP) (*Atlantic Canyons–Pathways to the Abyss* Project, with BOEM, NOAA, WHOI, national and international academic collaborators, private firms and the North Carolina Museum of Natural Science)

2013, U.S. Department of Interior Partners in Conservation Award (*Atlantic Canyons–Pathways to the Abyss* Project, with BOEM, NOAA, WHOI, several universities, private firms and the North Carolina Museum of Natural Science)

2011, Outstanding Service as an Online Mentor, American Society for Microbiology Minority Mentoring Program

2011, Excellence in Partnering Award, National Oceanographic Partnership Program (NOPP) (*Lophelia II* Project, with BOEM, NOAA, national and international academic collaborators)

Refereed Publications

*Mentored students and postdocs are indicated by the symbol *. For h-index and current citation numbers, please see my Google Scholar page.*

1. Paul, J.H., J.B. Rose, S.C. Jiang, **C.A. Kellogg**, and L. Dickson (1993). Distribution of viral abundance in the reef environment of Key Largo, Florida. *Applied and Environmental Microbiology*, 59: 718-724.
2. Boehme, J., M.E. Frischer, S.C. Jiang, **C.A. Kellogg**, S. Pichard, J.B. Rose, C. Steinway, and J.H. Paul (1993). Viruses, bacterioplankton, and phytoplankton in the southeastern Gulf of Mexico: distribution and contribution to oceanic DNA pools. *Marine Ecology Progress Series*, 97: 1-10.
3. **Kellogg, C.A.**, J.B. Rose, S.C. Jiang, J.M. Thurmond, and J.H. Paul (1995). Genetic diversity of related Vibriophages isolated from marine environments around Florida and Hawaii. *Marine Ecology Progress Series* 120: 89-98.
4. Paul, J.H., J.B. Rose, S. Jiang, **C. Kellogg**, and E.A. Shinn (1995). Occurrence of fecal indicator bacteria in surface waters and the subsurface aquifer in Key Largo, Florida. *Applied and Environmental Microbiology* 61: 2235-2241.
5. Paul, J.H., **C.A. Kellogg**, and S.C. Jiang. (1996). Viruses and DNA in marine environments, IN *Microbial Diversity in Time and Space* (R. Colwell, U. Simidu, K. Ohwada, Eds.), Plenum Publishing, p. 115-124.
6. Paul, J.H., J.B. Rose, S.C. Jiang, P. London, X. Zhou, and **C. Kellogg** (1997). Coliphage and indigenous phage in Mamala Bay, Oahu, Hawaii. *Applied and Environmental Microbiology* 63: 133-138.
7. Paul, J.H., J.B. Rose, S.C. Jiang, X. Zhou, P.K. Cochran, **C. Kellogg**, J.B. Kang, S. Farrah, and G. Lukasik. (1997). Evidence for groundwater and surface marine water contamination by waste disposal wells in the Florida Keys. *Water Research*. 31: 1448-1454.
8. Jiang, S.C., **C.A. Kellogg**, and J.H. Paul. (1998). Characterization of marine temperate phage-host systems isolated from Mamala Bay, Hawaii. *Applied and Environmental Microbiology* 64: 535-542.
9. Cochran, P.K., **C.A. Kellogg**, and J.H. Paul. (1998). Prophage induction of indigenous marine lysogenic bacteria by environmental pollutants. *Marine Ecology Progress Series* 164:125-133.
10. **Kellogg, C.A.** (1998). Genetic diversity and DNA repair of marine vibriophages, Department of Marine Science, University of South Florida, Ph.D. dissertation, 161 p., 2 appendices.
11. Paul, J.H. and **C.A. Kellogg** (2000). The ecology of bacteriophages in nature, IN *Viral Ecology* (C. J. Hurst, Ed.), Academic Press, pp. 211-246.

12. Cihlar, R., **C. Kellogg**, and S. Broedel Jr. (2001). Antifungal drug targets: Discovery and selection, IN *Fungal Pathogenesis: Principles and Clinical Applications* (R. A. Calderone & R. L. Cihlar, Eds.), Marcel Decker, Inc, pp. 579-600.
13. Griffin, D.W., **C.A. Kellogg** and E.A. Shinn (2001). Dust in the wind: Long range transport of dust in the atmosphere and its implications for global public and ecosystem health. *Global Change & Human Health* 2: 2-15.
14. Griffin, D.W., **C.A. Kellogg**, K.K. Peak, and E.A. Shinn. (2002). A rapid and efficient assay for extracting DNA from fungi. *Letters in Applied Microbiology* 34: 1-5.
15. **Kellogg, C.A.** and J. H. Paul (2002). Degree of ultraviolet radiation damage and repair capabilities are related to G+C content in marine vibriophages. *Aquatic Microbial Ecology* 27: 13-20.
16. **Kellogg, C.A.** and D.W. Griffin (2003). African dust carries microbes across the ocean: are they affecting human and ecosystem health?: USGS Open File Report 2003-028 http://coastal.er.usgs.gov/african_dust/ofr-2003-028.html
17. Griffin, D.W., **C.A. Kellogg**, V.H. Garrison, and E.A. Shinn (2002). The global transport of dust. *American Scientist* 90: 228-235.
18. Griffin, D.W., **C.A. Kellogg**, V.H. Garrison, and E.A. Shinn (2003). Il trasporto globale delle polveri. *Le Scienze* 417: 73-80. [Translated & reprinted from American Scientist]
19. Griffin, D.W., **C.A. Kellogg**, V.H. Garrison, and E.A. Shinn (2003). La mondialisation des poussières. *Pour La Science* 309: 79-85. [Translated & reprinted from American Scientist]
20. Griffin, D.W., **C.A. Kellogg**, V.H. Garrison, J.T. Lisle, T.C. Borden, and E.A. Shinn (2003). Atmospheric microbiology in the northern Caribbean during African dust events. *Aerobiologia* 19: 143-157.
21. Garrison, V.H., E.A. Shinn, W.T. Foreman, D.W. Griffin, C.W. Holmes, **C.A. Kellogg**, M.S. Majewski, L.L. Richardson, K.B. Ritchie, and G.W. Smith (2003). African and Asian dust: From desert soils to coral reefs. *BioScience* 53: 469-480.
22. **Kellogg, C.A.** (2004). Tropical Archaea: diversity associated with the surface microlayer of corals. *Marine Ecology Progress Series* 273: 81-88.
23. **Kellogg, C.A.**, D.W. Griffin, V.H. Garrison, K.K. Peak, *N. Royall, R.R. Smith, and E.A. Shinn (2004). Characterization of aerosolized bacteria and fungi from desert dust events in Mali, West Africa. *Aerobiologia* 20: 99-110.
24. Griffin, D.W. and **C.A. Kellogg** (2004). Dust storms and their impact on ocean and human health: Dust in Earth's atmosphere. *EcoHealth* 1: 284-295. DOI: 10.1007/s10393-004-0120-8

25. **Kellogg, C.A.** (2005). Coral microbial ecology. USGS Fact Sheet 2005-3039, <http://pubs.usgs.gov/fs/2005/3039/>
26. **Kellogg, C.A.** and J.T. Lisle (2006). Microbiology and public beach safety: Integrated science for the protection of public health: USGS Fact Sheet 2006-3045, <http://pubs.usgs.gov/fs/2006/3045/>
27. **Kellogg, C.A.** and D.W. Griffin (2006). Aerobiology and the global transport of desert dust. *Trends in Ecology and Evolution* 21(11): 638-644. DOI: 10.1016/j.tree.2006.07.004
28. Garrison, V.H., W.T. Foreman, S. Genualdi, D.W. Griffin, **C.A. Kellogg**, M.S. Majewski, A. Mohammed, A. Ramsubhag, E.A. Shinn, S.L. Simonich and G.W. Smith (2006). Saharan dust—a carrier of persistent organic pollutants, metals and microbes to the Caribbean? *Revista Biologia Tropical* 54(Suppl. 3): 9-21.
29. Rosenberg, E., **C.A. Kellogg**, and F. Rohwer (2007). Coral microbiology. *Oceanography* 20(2): 114-122.
30. **Kellogg, C.A.** (2007). Phage therapy for Florida corals? USGS Fact Sheet 2007-3065, <http://pubs.usgs.gov/fs/2007/3065/>
31. **Kellogg, C.A.** (2008). Microbial ecology of *Lophelia pertusa* in the northern Gulf of Mexico. Chapter 6 *IN*: Characterization of Northern Gulf of Mexico Deepwater Hard Bottom Communities with Emphasis on *Lophelia* Coral – *Lophelia* Reef Megafaunal Community Structure, Biotopes, Genetics, Microbial Ecology, and Geology (2004-2006), (K.J. Sulak, M. Randall, K.E. Luke, A.D. Norem, and J.M. Miller, eds.). USGS Open-File Report 2008-1148.
32. Poore, R.Z., I.B. Kuffner and **C.A. Kellogg** (2008). Florida Integrated Science Center (FISC) Coral Reef Research. USGS Fact Sheet 2008-3057, <http://pubs.usgs.gov/fs/2008/3057/>
33. *Galkiewicz, J.P. and **C.A. Kellogg** (2008). Cross-kingdom amplification using bacterial-specific primers: complications for coral microbial ecology. *Applied and Environmental Microbiology* 74 (24): 7828-7831. DOI: 10.1128/AEM.01303-08
34. **Kellogg, C.A.**, J.T. Lisle and *J.P. Galkiewicz (2009). Culture-independent characterization of bacterial communities associated with the cold-water coral *Lophelia pertusa* in the northeastern Gulf of Mexico. *Applied and Environmental Microbiology* 75 (8): 2294-2303. DOI: 10.1128/AEM.02357-08
35. Andersen, G.L., A.S. Frisch, **C.A. Kellogg**, E. Levetin, B. Lighthart, and D. Patemo (2009). Aeromicrobiology/Air Quality, *IN Encyclopedia of Microbiology* (M. Schaechter, Ed.), Elsevier, Oxford, pp. 11-26.
36. **Kellogg, C.A.** (2009). Gulf of Mexico Deep-Sea Coral Ecosystem Studies, 2008-2011. USGS Fact Sheet 2009-3094, <http://pubs.usgs.gov/fs/2009/3094/>

37. **Kellogg, C.A.** and D.G. Zawada (2009). Applying New Methods to Diagnose Coral Diseases. USGS Fact Sheet 2009-3113, <http://pubs.usgs.gov/fs/2009/3113/> (USGS IP-017284) [50%, NA, NA, 70%]
38. Olson, J.B. and **C.A. Kellogg** (2010). Microbial ecology of corals, sponges, and algae in mesophotic coral environments. *FEMS Microbiology Ecology* 73: 17-30. DOI: 10.1111/j.1574-6941.2010.00862.x
39. **Kellogg, C.A.** (2010). Enumeration of viruses and prokaryotes in deep-sea sediments and cold seeps of the Gulf of Mexico. *Deep-Sea Research II* 57:2002-2007. DOI: 10.1016/j.dsr2.2010.05.006
40. **Kellogg, C.A.** (2010). Microbiology of Deep-Sea Corals, IN *Proceedings of the U.S. Geological Survey Interdisciplinary Microbiology Workshop, Estes Park, Colorado, October 15-17, 2008* (K.M. Briggs, Ed.), U.S. Geological Survey Scientific Investigations Report 2010-5146.
41. **Kellogg, C.A.** (2010). Enumeration of viruses and prokaryotes in deep-sea sediments and cold seeps of the Gulf of Mexico, IN *Proceedings of the U.S. Geological Survey Interdisciplinary Microbiology Workshop, Estes Park, Colorado, October 15-17, 2008* (K.M. Briggs, Ed.), U.S. Geological Survey Scientific Investigations Report 2010-5146.
42. Poore, R.Z., I.B. Kuffner and **C.A. Kellogg** (2010). St. Petersburg Coastal and Marine Science Center Coral Reef Research. USGS Fact Sheet 2010-3103, <http://pubs.usgs.gov/fs/2010/3103/>
43. Gray, M.A., R.P. Stone, M.R. McLaughlin and **C.A. Kellogg** (2011) Microbial consortia of gorgonian corals from the Aleutian islands. *FEMS Microbiology Ecology* 76: 109-120. DOI: 10.1111/j.1574-6941.2010.01033.x
44. *Galkiewicz, J.P., *Z.A. Pratte, M.A. Gray, and **C.A. Kellogg** (2011) Characterization of culturable bacteria isolated from the cold-water coral *Lophelia pertusa*. *FEMS Microbiology Ecology* 77:333-346. DOI: 10.1111/j.1574-6941.2011.01115.x
45. **Kellogg, C.A.** (2011). Microbial Ecology of Deep-Water Mid-Atlantic Canyons. USGS Fact Sheet 2011-3102, <http://pubs.usgs.gov/fs/2011/3102/>
46. Andersen, G.L., A.S. Frisch, **C.A. Kellogg**, E. Levetin, B. Lighthart, and D. Patemo (2011). Aeromicrobiology, IN *Topics in Ecological and Environmental Microbiology* (T. Schimdt, M. Schaechter, Eds.), Academic Press, Elsevier, Oxford, pp. 114-132.
47. **Kellogg, C.A.**, Y.M. Piceno, L.M. Tom, T.Z. DeSantis, D.G. Zawada and G.L. Andersen (2012). PhyloChip™ microarray comparison of sampling methods used for coral microbial ecology. *Journal of Microbiological Methods* 88:103-109. DOI: 10.1016/j.mimet.2011.10.019

48. Ross, S.W., A.W.J. Demopoulos, **C.A. Kellogg**, C.L. Morrison, M.S. Nizinski, C.L. Ames, T.L. Casazza, D. Gualtieri, K. Kovacs, J.P. McClain, A.M. Quattrini, A.Y. Roa-Varón and A.D. Thaler (2012). Deepwater Program: Studies of Gulf of Mexico lower continental slope communities related to chemosynthetic and hard substrate habitats. USGS Open-File Report 2012-1032, 301 p.
49. *Galkiewicz, J.P., *S.H. Stellick, M.A. Gray, and **C.A. Kellogg** (2012). Cultured fungal associates from the deep-sea coral *Lophelia pertusa*. *Deep-Sea Research I* 67: 12-20. DOI: 10.1016/j.dsr.2012.05.001
50. Gray, M.A., *Z.A. Pratte, and **C.A. Kellogg** (2013). Comparison of DNA preservation methods for environmental bacterial-community samples. *FEMS Microbiology Ecology* 83:468-477. DOI: 10.1111/1574-6941.12008
51. **Kellogg, C.A.**, Y.M. Piceno, L.M. Tom, T.Z. DeSantis, M.A. Gray, D.G. Zawada, and G.L. Andersen (2013). Comparing bacterial community composition between healthy and white plague-like disease states in *Orbicella annularis* using PhyloChip™ G3 microarrays. PLOS ONE 8(11): e79801. DOI:10.1371/journal.pone.0079801
52. *Baker, E.J. and **C.A. Kellogg** (2014). Comparison of three DNA extraction kits to establish maximum yield and quality of coral-associated microbial DNA. USGS Open-File Report 2014-1066, 14 p. <http://pubs.usgs.gov/of/2014/1066/> DOI: 10.3133/ofr20141066
53. **Kellogg, C.A.** (2014). Section 3: Sampling from living organisms (Chapter 6: Sampling and experiments with biofilms in the environment), IN *Biofouling Methods* (S. Dobretsov, D.N. Williams, and J. Thomason, Eds.), Wiley Blackwell, pp. 184 – 189. DOI: 10.1002/9781118336144.fmatter
54. **Kellogg, C.A.**, Y.M. Piceno, L.M. Tom, T.Z. DeSantis, M.A. Gray, and G.L. Andersen (2014). Comparing bacterial community composition of healthy and dark spot-affected *Siderastrea siderea* in Florida and the Caribbean. PLOS ONE 9(10): e108767. DOI: 10.1371/journal.pone.0108767
55. **Kellogg, C.A.** (2015). Cold-water coral microbiomes (*Paramuricea placomus*) from Baltimore Canyon: raw and processed data. USGS Data Release, DOI: 10.5066/F7HQ3WZZ
56. **Kellogg, C.A.** and *S.N. Lawler (2015). Cold-water coral microbiomes (*Anthothela* spp.) from Baltimore and Norfolk Canyons: raw and processed data. USGS Data Release, DOI: 10.5066/F7CZ356K
57. **Kellogg, C.A.**, K.K. Yates, *S.N. Lawler, C.S. Moore, and N.A. Smiley (2015). Seasonal microbial and environmental parameters at Crocker Reef, Florida Keys, 2014-2015. USGS Open-File Report 2015-1203, 12 p. <http://dx.doi.org/10.3133/ofr20151203>.
58. **Kellogg, C.A.**, K.K. Yates, *S.N. Lawler, C.S. Moore, and N.A. Smiley (2015). Microbial and environmental dataset from Crocker Reef, Florida Keys, 2014-2015. USGS Data Release, DOI: 10.5066/F74Q7S25

59. Kuffner, I.B., K.K. Yates, D.G. Zawada, J.N. Richey, **C.A. Kellogg**, and L.T. Toth (2015). USGS research on Atlantic coral reef ecosystems. USGS Fact Sheet 2015-3073, 2 p. <http://dx.doi.org/10.3133/fs20153073>
60. Kuffner, I.B., K.K. Yates, D.G. Zawada, J.N. Richey, **C.A. Kellogg**, L.T. Toth, and L. Torres-Garcia (2015). Investigación del USGS sobre el ecosistema de arrecifes de coral en el Atlántico. USGS Fact Sheet 2015-3074, 2 p. <http://dx.doi.org/10.3133/fs20153074>
61. *Lawler, S.N., **C.A. Kellogg**, S.C. France, R.W. Clostio, S.D. Brooke, and S.W. Ross (2016) Coral-associated bacterial diversity is conserved across two deep-sea *Anthothela* species. *Frontiers in Microbiology* 7:458. DOI: 10.3389/fmicb.2016.00458
62. **Kellogg, C.A.**, S.D. Brooke, and S.W. Ross (2016) Bacterial community diversity of the deep-sea octocoral *Paramuricea placomus*. *PeerJ* 4:e2529. DOI: 10.7717/peerj.2529
63. **Kellogg, C.A.** and D.B. Goldsmith (2017). Cold-water coral microbiomes (*Lophelia pertusa*) from Gulf of Mexico and Atlantic Ocean: raw data. USGS Data Release, <https://doi.org/10.5066/F7M32SXM> DOI: 10.5066/F7M32SXM
64. **Kellogg, C.A.**, A.E. West and C.M. Runyon (2017). Predation by *Acanthurus leucopareius* on black-band disease in Kauai, Hawaii. *Bulletin of Marine Science* 93(3): 891-892. DOI: 10.5343/bms.2016.1104
65. **Kellogg, C.A.**, D.B. Goldsmith, and M.A. Gray (2017). Biogeographic comparison of *Lophelia*-associated bacterial communities in the western Atlantic reveals conserved core microbiome. *Frontiers in Microbiology* 8:796. DOI: 10.3389/fmicb.2017.00796
66. **Kellogg, C.A.** and M.C. Hopkins (2017). USGS Microbiome Research. USGS Fact Sheet 2017-3074, 4 p. <https://doi.org/10.3133/fs20173074>
67. Demopoulos, A.W.J., S.W. Ross, **C.A. Kellogg**, C. L. Morrison, M. Nizinski, N.G. Prouty, J.R. Bourque, *J.P. Galkiewicz, M.A. Gray, M.J. Springmann, D.K. Coykendall, A. Miller, M. Rhodes, A. Quattrini, C.L. Ames, S. Brooke, J. McClain-Counts, E.B. Roark, N.A. Buster, R.M. Phillips, and J. Frometa (2017). Deepwater Program: *Lophelia* II, continuing ecological research on deep-sea corals and deep-reef habitats in the Gulf of Mexico: U.S. Geological Survey Open-File Report 2017-1139, 269 p. DOI: 10.3133/ofr20171139
68. **Kellogg, C.A.** and *S.N. Lawler (2017). Chapter 12. Canyons Microbiology Studies *IN*: CSA Ocean Sciences Inc. Ross S, Brooke S, Baird E, Coykendall E, Davies A, Demopoulos A, France S, **Kellogg C**, Mather R, Mienis F, Morrison C, Prouty N, Roark B, Robertson C. 2017. Exploration and Research of Mid-Atlantic Deepwater Hard Bottom Habitats and Shipwrecks with Emphasis on Canyons and Coral Communities: Atlantic Deepwater Canyons Study. Volume I: Final Technical Report. Sterling (VA): U.S. Dept. of the Interior, Bureau of Ocean Energy Management, Atlantic OCS Region. OCS Study BOEM 2017-060. 1,000 p. + apps.

69. Goldsmith, D.B., **C.A. Kellogg**, C.L. Morrison, M.A. Gray, R.P. Stone, R.G. Waller, S.D. Brooke, S.W. Ross (2018). Comparison of microbiomes of cold-water corals *Primnoa pacifica* and *Primnoa resedaeformis*, with possible link between microbiome composition and host genotype. Scientific Reports 8: 12383 DOI:10.1038/s41598-018-30901-z
70. **Kellogg, C.A.** and D.B. Goldsmith (2018). Cold-water coral microbiomes (*Primnoa* spp.) from Gulf of Alaska, Baltimore Canyon, and Norfolk Canyon: raw data. USGS Data Release, <https://doi.org/10.5066/F7P55KMJ> DOI: 10.5066/F7P55KMJ
71. **Kellogg, C.A.** and D.B. Goldsmith (2018). Cold-water Coral Metagenomes (*Lophelia pertusa*) from Gulf of Mexico and Atlantic Ocean: Raw Data. USGS Data Release, DOI: 10.5066/P9AA0H3B
72. Goldsmith, D.B., Z.A. Pratte, **C.A. Kellogg**, *S.E. Snader, K.H. Sharp (2019). Stability of temperate coral *Astrangia poculata* microbiome is reflected across different sequencing methodologies. AIMS Microbiology 5(1): 62-76 DOI 10.3934/microbiol.2019.1.62
73. Goldsmith, D.B. and **C.A. Kellogg** (2019) Cold-water coral microbiomes (*Astrangia poculata*) from Narragansett Bay: raw data. USGS Data Release, DOI: 10.5066/P9C2XCQQ 0
74. *Martin, M.M., **C.A. Kellogg**, P. Hallock (2019). Microbial associations of four species of algal symbiont-bearing foraminifers from the Florida Reef Tract, USA. Journal of Foraminiferal Research 49(2): 178-190 DOI: 10.2113/gsjfr.49.2.178
75. **Kellogg, C.A.** (2019). Microbiomes of stony and soft deep-sea corals share rare core bacteria. Microbiome 7: 90 DOI: 10.1186/s40168-019-0697-3
76. Prouty, N.G., **C.A. Kellogg**, C.L. Morrison (2019). Multidisciplinary assessment of deep-water coral ecosystems: Tools to detect impacts of sub-lethal stress. New Orleans (LA): U.S. Department of the Interior, Bureau of Ocean Energy Management, Gulf of Mexico OCS Region. OCS Study BOEM 2019-034.
77. Oberle, F.K.J., C.D. Storlazzi, O.M. Cheriton, R. Takesue, D.J. Hoover, J. Logan, C. Runyon, **C.A. Kellogg**, C.D. Johnson, and P.W. Swarzenski (2019). Physiochemical controls on zones of higher coral stress where Black Band Disease occurs at Makua Reef, Kaua'i, Hawai'i. Frontiers in Marine Science 6, 552. DOI: 10.3389/fmars.2019.00552
78. Jiang, S. C., M. Han, S. Chandrasekaran, Y. Fang, and C.A. Kellogg (2020). Assessing the water quality impacts of two category-5 hurricanes on St. Thomas Virgin Islands. Water Research 171: 115440 DOI: **10.1016/j.watres.2019.115440**
79. **Kellogg, C.A.**, R.P. Moyer, M. Jacobsen, K. Yates (2020) Identifying mangrove-coral habitats in the Florida Keys. PeerJ 8:e9776 DOI: **10.7717/peerj.9776**
80. **Kellogg, C.A.**, J.S. Evans and J.J. Voleschow (2021) Bacterial communities shed by *Montastraea cavernosa* coral fragments into filtered seawater mesocosms—raw data. U.S. Geological Survey Data Release <https://doi.org/10.5066/P9B13K8N>

81. Pratte, Z.A. and **C.A. Kellogg** (2021) The effect of preservative and extraction method on five taxonomically disparate coral microbiomes. *Frontiers in Marine Science* 8:684161 **DOI: 10.3389/fmars.2021.684161**

82. **Kellogg, C.A.**, D.B. Goldsmith, and J.J. Voelschow (2021). Coral microbiome preservation and extraction method comparison—raw data. U.S. Geological Survey data release. <http://dx.doi.org/10.5066/P96GBWDM>

83. **Kellogg, C.A.** and Z.A. Pratte (2021) Unexpected diversity of *Endozoicomonas* in deep-sea corals. *MEPS* 673:1-15. **DOI 10.3354/meps13844 *Editor's featured article**

84. **Kellogg, C.A.** and J.J. Voelschow (2021) Cold-water coral microbiomes (*Acanthogorgia* spp. *Desmophyllum dianthus*, and *Lophelia pertusa*) from the Gulf of Mexico and Atlantic Ocean off the southeast coast of the United States—raw data. U.S. Geological Survey Data Release, <https://doi.org/10.5066/P9Z1HPKR>

85. Evans, J.S., V.J. Paul, B. Ushijima, and **C.A. Kellogg** (2022) Combining tangential flow filtration and size fractionation of mesocosm water as a method for the investigation of waterborne coral diseases. *Biology Methods & Protocols* 7(1): bpac007 **DOI 10.1093/biomethods/bpac007**

Conference Presentations/Lectures

I have been an author or co-author on over 120 oral presentations, including giving 18 invited conference talks and 5 keynotes. I have been invited to give 21 lectures.

Professional Societies

1992-present American Society for Microbiology (ASM)
2013-2019 Association for the Sciences of Limnology and Oceanography (ASLO)
1995-2008 American Association for the Advancement of Science (AAAS)
2006-2008 International Association for Aerobiology (IAA)

Editorial boards

2013-present *Frontiers in Marine Science: Microbial Symbioses*
2013-present *Frontiers in Microbiology: Microbial Symbioses*
2013-2017 PLOS ONE
2011-2013 *The Scientific World Journal*

Peer-reviewer for the following journals

Air Quality, Atmosphere and Health	Journal of the Marine Biol. Assoc. (UK)
Applied and Environmental Microbiology	Journal of Water and Health
Aquatic Ecology	Limnology and Oceanography
Aquatic Microbial Ecology	Marine Biotechnology
Biogeosciences	Marine and Freshwater Research

Continental Shelf Research
Coral Reefs
Environmental Health Perspectives
Environmental Microbiology
FEMS Microbiology Ecology
Frontiers in Microbiology
Frontiers in Marine Science
The ISME Journal

Marine Drugs
Marine Ecology Progress Series
Microbial Ecology
Molecular Ecology
npj Biofilms and Microbiomes
PLOS ONE
Proceedings of the Natl. Acad. Sci.
Trends in Ecology & Evolution

Lab Web Site

Coral Microbial Ecology: <https://www.usgs.gov/coral-microbes/>

Scientific Leadership

Stony Coral Tissue Loss Disease Response: Pathogen ID/Microbiome SubTeam Leader

Within the Stony Coral Tissue Loss Disease (SCTLD) response effort in Florida, the multi-agency, 70+ person research and epidemiology team was subdivided into communities of practice to increase communication, collaboration, research synthesis, and accelerate identification of the causative agent. I am the co-lead of this SubTeam, running quarterly calls for ~30 people and more frequent calls for a working group that is conducting a meta-analysis of bacterial data derived from SCTLD samples. **(2019-present)**

Microbiome Interagency Working Group (MIWG)

Established by the U.S. National Science and Technology Council, Committee on Science, Subcommittee on Life Sciences, the purpose of the MIWG is to develop a Federal Strategic Plan for microbiome research. The plan provides recommendations for improving coordination of microbiome research among Federal agencies and also between Federal agencies and non-Federal domestic and international microbiome research efforts. I co-authored this plan (released April 20, 2018) as well as a USGS fact sheet. Representatives from NOAA and NIH are using the USGS microbiome fact sheet as a template to produce similar documents for their agencies. (2016-2018).

Leadership Role in the American Society for Microbiology

The American Society for Microbiology (ASM) is the oldest and largest single life science membership organization in the world, with more than 40,000 members, over 40% of which are international. ASM's mission is to advance microbial sciences. From 2007–2011, I was elected to serve as a member of ASM Council (the society's governing body). In 2011 and again in 2014, I was elected to three-year terms on the Council Policy Committee (CPC; the society's executive board). From 2013–2017, I was appointed to the Finance Committee, which is responsible for oversight of ASM's annual operating budget (\$54 million, with ~\$100 million in reserve investments) and investments. In 2014, I was chosen to participate in strategic planning retreats to (1) redefine the role of the communications committee and (2) to determine the future course and scope of the organization, leading to a complete overhaul of the governance structure. My decisions shaped the priorities of ASM and thereby impacted not only the membership but also non-member scientists within the microbial sciences (e.g., scientific directions emphasized

in publications and meetings, how we communicate the importance of our science to the public and funding agencies). The new governance structure is more responsive to change and provides greater opportunities for member engagement and leadership development.

Conference Organization

International (I), national (N) and local (L) scientific meetings that I have organized:

- 2020, Invited organizer, convener, and moderator at 2020 ASM Microbe Online Meeting: “On the Front Lines of Coral Disease” (I)
- 2017, Invited convener and plenary speaker at 2017 ASM Microbe Meeting: “Microbes and Climate Change” (I)
- 2017, Co-chairing session at 2017 ASLO Aquatic Sciences Meeting: “Coral Microbiomes: Shallow, Mesophotic, Deep-Sea” (I)
- 2016, Co-chaired session at 13th International Coral Reef Symposium: “Mesophotic and Deep-Sea Coral Ecosystems: A Tribute to the Pioneering Efforts of Dr. John Rooney.” (I)
- 2014, Originated and co-chaired two sessions at the 2014 Ocean Sciences Meeting: “Coral Microbiology: Partners and Pathogens” and “Submarine Canyons: Oceanographic Conditions, Geological Features, and Ecological Settings.” (I)
- 2009, Joint meeting of Florida Branch and Southeastern Branch of the American Society for Microbiology, co-organizer and program planner (L)
- 2008, USGS Interdisciplinary Microbiology Workshop, organizing committee (N)
- 2007, Florida Branch of the American Society for Microbiology annual meeting, organizer and program planner (L)
- 2006, International Society of Environmental Geochemistry (ISEG), co-organizer of a day-long special session on dust and human health, Beijing, China (I)
- 2005, 2nd Sustainable Beaches Summit, steering committee (N)
- 2004, 1st Sustainable Beaches Summit, steering committee (N)
- 2003-2005, German-American Frontiers of Science Meeting, organizing committee (I)
- 2003, USGS Public Health Meeting, invitation and promotion committees (N)

Special Assignments

November 2016–May 2019, **Shell Ocean Discovery XPRIZE judge:** The \$7 million dollar global competition’s goal is to incentivize development of autonomous deep-sea mapping capabilities, as well as an additional \$1 million prize for autonomous biological or chemical sensors. <http://oceandiscovery.xprize.org/>

September 2014–July 2015, **Wendy Schmidt Ocean Health XPRIZE judge:** This \$2- million dollar global competition’s goal was to incentivize development of more accurate and affordable marine pH sensors in order to improve our ability to measure ocean acidification. <http://oceanhealth.xprize.org>

Selected Outreach Examples

Interviewed on Australian podcast “Deep Blue on my Doorstep”, **2020**

<https://podcasts.apple.com/au/podcast/012-coral-reefs-dr-christina-kellogg/id1527313386?i=1000496375957>

Special guest on This Week in Microbiology (TWiM) 1-hr video podcast,

<http://www.microbe.tv/twim/twim-178/>, 2018

Featured in 12-min video “Drawn to the Sea: Florida Women in Marine Science” geared toward Girl Scouts and middle school classes to encourage girls to consider science careers,

<https://youtu.be/O1C1uagBrRg>, 2017

Live online segment to highlight the best sessions of Microbe2017, the premiere meeting of the American Society for Microbiology, held June 1-5, 2017 in New Orleans,

<https://www.facebook.com/asmfan/videos/10156364893865200/>, 2017

Hawaii Public Radio’s morning show "The Conversation" about the USGS's recent field work in Kauai to investigate links between submarine groundwater discharge and coral disease outbreaks, <http://hpr2.org/post/conversation-thursday-august-25th-2016>, 2016

NOAA OceanAGE career interview video and web page,

<http://oceanexplorer.noaa.gov/edu/oceanage/13kellogg/welcome.html>, 2013

TV show titled “Mysterious Microbes” produced by Miami Public Television WPBT2;

<http://video.wpbt2.org/video/2245417400> ; 2012