DR. EVELYN E. GAISER

George M. Barley, Jr. Eminent Scholars Chair, Institute of Environment Distinguished University Professor, Department of Biological Sciences Florida International University Miami, FL 33199 305-348-6145 (phone), 305-348-4096 (fax), gaisere@fiu.edu

Ph.D. University of Georgia, Athens, Georgia, Institute of Ecology

M.S. Iowa State University, Ames, Iowa, Department of Animal Ecology

EDUCATION

1991

1987-1988

1989	B.S.	Kent State University, Kent, Ohio, Department of Biology
ACAI	DEMIC	AND PROFESSIONAL APPOINTMENTS
2021-	present	Distinguished University Professor, Department of Biological Sciences, Florida International University, Miami, FL
2018-	present	George M. Barley, Jr. Éminent Scholars Chair, Institute of Environment, Florida International University, Miami, FL
2014 -	- 2018	Dean, College of Arts, Sciences and Education, Florida International University,
2012-2	2021	Miami, FL Professor, Department of Biological Sciences, Florida International University, Miami, FL
2006-2	2012	Associate Professor, Department of Biological Sciences, Florida International University, Miami, FL
2008-	present	Research Associate, Archbold Biological Station, Lake Placid, FL
2001-	2006	Assistant Professor, Department of Biological Sciences, Florida International
		University, Miami, FL
1997-2	2001	Assistant Research Scientist, Southeast Environmental Research Center, Florida
		International University, Miami, FL
1991-	1997	Research/Teaching Assistant, Institute of Ecology, University of Georgia, Athens,
		GA and Savannah River Ecology Lab, Aiken, SC
1989-	1991	Research/Teaching Assistant, Department of Animal Ecology, Iowa State
		University, Ames, IA and Iowa Lakeside Laboratory, Milford, IA

ADMINISTRATIVE SERVICE AT FLORIDA INTERNATIONAL UNIVERSITY

State University, Wooster, OH

2014 – 2018 Executive Director, School of Environment, Arts and Society and Associate Dean, College of Arts, Sciences and Education. I served as the academic leader of one of three schools in the College of Arts, Sciences and Education. The School includes 3 departments with 53 degree programs, 5 research centers, the Institute of Environment, and a public education and outreach program. I was responsible

Research Technician, Ohio Agricultural Research and Development Center, Ohio

for executing the school's vision, fundraising, outreach, communications, partner relationships, and building intramural research and education programming.

SCIENTIFIC PUBLICATIONS (* indicates student author under my supervision)

PEER-REVIEWED JOURNAL ARTICLES (Google Scholar Profile, ORCID)

- 112. Emery Boeck*, M., E. E. **Gaiser**, H. M. Swain, M. Brenner, J. H. Curtis, and W. F. Kenney. Cyclical browning in a subtropical lake inferred from diatom records. Frontiers in Ecology and Evolution. In Press.
- 111. Zhao, J., S. Chakrabarti, R. Chambers, P. Weisenhorn, R. Travieso, S. Stumpf, E. Standen, H. Briceno, T. Troxler, E. Gaiser, J. Kominoski, B. Dhillon, & W. Martens-Habbena. 2023. Year-around survey and manipulation experiments reveal differential sensitivities of soil prokaryotic and fungal communities to saltwater intrusion in Florida Everglades wetlands. Science of the Total Environment 858. http://dx.doi.org/10.1016/j.scitotenv.2022.159865.
- 110. Laas, P., K. Ugarelli, R. Travieso, S. Stumpf, **E.E. Gaiser**, J. S. Kominoski, & U. Stingl. 2022. Water column microbial communities vary along salinity gradients in the Florida Coastal Everglades wetlands. Microorganisms 10. https://doi.org/10.3390/microorganisms10020215.
- 109. Gaiser, E.E., J.S. Kominoski, D.M. McKnight, C.A. Bahlai, C. Cheng, S. Record, W.W. Wollheim, K.R. Christianson, M.R. Downs, P.A. Hawman, S.J. Holbrook, A. Kumar, D.R. Mishra, N.P. Molotch, R.B. Primack, A. Rassweiler, R.J. Schmitt, & L.A. Sutter. 2022. Long-term ecological research and the COVID-19 anthropause: A window to understanding social-ecological disturbance. Ecosphere 13:e4019. https://doi.org/10.1002/ecs2.4019
- 108. Sullivan*, K.L., **E.E. Gaiser**, & H.M. Swain. 2021. Dissolved organic carbon as a driver of seasonal and multi-year phytoplankton assembly oscillations in a subtropical monomictic lake. Limnology and Oceanography. https://doi.org/10.1002/lno.12004.
- 107. Smith, M.A., J.S. Kominoski, **E.E. Gaiser**, R. Price, & T.G. Troxler. 2021. Stormwater runoff and tidal flooding transform dissolved organic matter composition and increase bioavailability in urban coastal ecosystems. Journal of Geophysical Research: Biogeosciences 126. https://doi.org/10.1029/2020JG006146.
- Pilla, R., E. Mette, C. Williamson, B. Adamovich, R. Adrian, O. Anneville, E.G. Balseiro, S. Ban, S. Chandra, W. Colom-Montero, S. Devlin, M. Dix, M. Dokulil, N. Feldsine, H. Feuchtmayr, N. Fogarty, E. Gaiser, S. Girdner, M. González, K.D. Hambright, D. Hamilton, K.Havens, D. Hessen, H. Hetzenauer, S. Higgins, T. Huttula, H. Huuskonen, P. Isles, K. Jöhnk, W. Keller, J. Klug, L. Knoll, J. Korhonen, N. Korovchinsky, O. Köster, B. Kraemer, P. Leavitt, B. Leoni, F. Lepori, E. Lepskaya, N. Lottig, M. Luger, S. Maberly, S. Macintyre, C. McBride, P. McIntyre, S. Melles, B.E. Modenutti, D. Müller-Navarra, L. Pacholski, A. Paterson, D. Pierson, H. Pislegina, P. Plisnier, D. Richardson, A. Rimmer, M. Rogora, D. Rogozin, J. Rusak, O. Rusanovskaya, S. Sadro, N. Salmaso, J. Saros, J. Sarvala, É. Saulnier-Talbot, D. Schindler, S. Shimaraeva, E. Silow, L. Sitoki, R. Sommaruga, D. Straile, K. Strock, H. Swain, J. Tallant, W. Thiery, M. Timofeyev,

- A. Tolomeev, K. Tominaga, M. Vanni, P. Verburg, R. Vinebrooke, J. Wanzenböck, K. Weathers, G. Weyhenmeyer, E. Zadereev, & T. Zhukova. 2021. Global data set of long-term summertime vertical temperature profiles in 153 lakes. Scientific Reports. SDATA-21-00154A.
- 105. Zhao, X., V.H. Rivera-Monroy, L.M. Farfán, H. Briceño, E. Castañeda-Moya, R. Travieso, & E.E. Gaiser. 2021. Tropical cyclones cumulatively control regional carbon fluxes in Everglades mangrove wetlands (Florida, USA). Scientific Reports 11:13927. https://doi.org/10.1038/s41598-021-92899-1
- 104. Pilla R.M., C.E. Williamson, B.V. Adamovich, R. Adrian, O. Anneville, S. Chandra, W. Colom-Montero, S.P. Devlin, M.A. Dix, M.T. Dokulil, E.E. Gaiser, S.F. Girdner, K.D. Hambright, D.P. Hamilton, K. Havens, D.O. Hessen, S.N. Higgins, T.H. Huttula, H. Huuskonen, P.D.F. Isles, K.D. Joehnk, I.D. Jones, W.B. Keller, L.B. Knoll, J. Korhonen, B.M. Kraemer, P.R. Leavitt, F. Lepori, M.S. Luger, S.C. Maberly, J.M. Melack, S.J. Melles, D.C. Muller-Navarra, D.C. Pierson, H.V. Pislegina, P.D. Plisnier, D.C. Richardson, A. Rimmer, M. Rogora, J.A. Rusak, S. Sadro, N. Salmaso, J.E. Saros, E. Saulnier-Talbot, D.E. Schindler, M. Schmid, S.V. Shimaraeva E.A., Silow L.M., Sitoki R., Sommaruga D., Straile K.E., Strock W., Thiery, M.A. Timofeyev, P. Verburg, R.D. Vinebrooke, G.A. Weyhenmeyer, and E. Zadereev. 2020. Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. Scientific Reports. https://doi.org/10.1038/s41598-020-76873-x
- 103. Dempsey, C.M., J.A. Brentrup, S. Magyan, L.B. Knoll, H.M. Swain, **E.E. Gaiser**, D.P. Morris, M.T. Granger, and C.E. Williamson. 2020. The relative importance of photodegradation and biodegradation of terrestrially derived dissolved organic carbon across four lakes of differing trophic status. Biogeochemistry 17:6327-6340. https://doi.org/10.5194/bg-17-6327-2020
- 102. Doubek, J., O. Anneville, G. Dur, A. Lewandowska, V. Patil, J. Rusak, N. Salmaso, C. Seltmann, D. Straile, P. Urrutia-Cordero, P. Venail, R. Adrian, M. Alfonso, C. DeGasperi, E. De Eyto, H. Feuchtmayr, E.E. Gaiser, S. Girdner, J.L. Graham, H. Grossart, J. Hejzlar, S. Jacquet, G. Kirillin, M. Llames, S. Matsuzaki, E. Nodine, M. Piccolo, D. Pierson, A. Rimmer, L. Rudstam, S. Sadro, H. Swain, S. Thackeray, W. Thiery, P. Verburg, T. Zohary, & J. Stockwell. 2021. The extent and variability of storm-induced temperature changes in lakes measured with long-term and high-frequency data. Limnology and Oceanography. https://doi.org/10.5194/bg-2020-160
- 101. Kraemer, B.M., R.M. Pilla, R.L. Woolway, O. Anneville, S. Ban, W. Colom-Montero, S.P. Devlin, M.T. Dokulil, E.E. Gaiser, K.D. Hambright, D.O. Hessen, S.N. Higgins, K.D. Jöhnk, W. Keller, L.B. Knoll, P.R. Leavitt, F. Lepori, M.S. Luger, S.C. Maberly, D.C. Müller-Navarra, A.M. Paterson, D.C. Pierson, D.C. Richardson, M. Rogora, J.A. Rusak, S. Sadro, N. Salmaso, M. Schmid, E.A. Silow, R. Sommaruga, J.A.A. Stelzer, D. Straile, W. Thiery, P. Verburg, G.A. Weyhenmeyer, and R. Adrian. 2021. Climate change drives widespread shifts in lake thermal habitat. Nature Climate Change. https://doi.org/10.1038/s41558-021-01060-3.
- 100. Sarker, S.K., J.S. Kominoski, **E.E. Gaiser**, L.J. Scinto, and D.T. Rudnick. 2020. Quantifying effects of increased hydroperiod on wetland nutrient concentrations

- during early phases of freshwater restoration of the Florida Everglades. Restoration Ecology 28:1561-1573. https://doi.org/10.1111/rec.13231
- 99. Berthold*, D.E., T. Frankovich, **E.E. Gaiser**, and H.D. Laughinghouse IV. 2020. *Fistulifera alcalina* sp. nov. (Naviculales: Bacillariophyceae) a new alkaliphilic diatom species from Lake Okeechobee, Florida (USA). Diatom Research. https://doi.org/10.1080/0269249X.2020.1801517
- 98. **Gaiser, E.E.**, D.M. Bell, M.C.N. Castorani, D.L. Childers, P.M. Groffman, R.C. Jackson, J.S. Kominoski, D.P.C. Peters, S.T.A. Pickett, J. Ripplinger, & J.C. Zinnert. 2020. Long term ecological research and evolving frameworks of disturbance ecology. BioScience 70:141-156. https://doi.org/10.1093/biosci/biz162
- 97. Castañeda-Moya, E., V.H. Rivera-Monroy, R.M. Chambers, X. Zhao, L. Lamb-Wotton, A. Gorsky, E.E. Gaiser, T.G. Troxler, J.S. Kominoski, & M. Hiatt. 2020. Hurricanes fertilize mangrove forests in the Gulf of Mexico (Florida Everglades, USA). Proceedings of the National Academy of Science 117:4831-4841. https://doi.org/10.1073/pnas.1908597117
- 96. Servais, S., J.S. Kominoski, C. Coronado-Molina, L. Bauman, S.E. Davis, E.E. Gaiser, S. Kelly, C. Madden, V. Mazzei*, D. Rudnick, F. Santamaria, F.H. Sklar, J. Stachelek, T.G. Troxler, & B.J. Wilson. 2020. Effects of saltwater pulses on soil microbial enzymes and organic matter breakdown in freshwater and brackish coastal wetlands. Estuaries and Coasts https://doi.org/10.1007/s12237-020-00708-1
- 95. Kominoski, J.S., E.E. Gaiser, E. Castañeda-Moya, S.E. Davis, S. Dessu, P. Julian II, D.Y. Lee, L. Marazzi*, V.H. Rivera-Monroy, A. Sola*, U. Stingl, S. Stumpf, D. Surratt, R. Travieso, & T.G. Troxler. 2020. Disturbance legacies synchronize fluctuations in nutrient concentrations and bacterial productivity in coastal ecosystems. Ecology 101(5) e02988. https://doi.org/10.1002/ecy.2988
- 94. Dessu, S.B., R.M. Price, J.S. Kominoski, S.E. Davis, A.S. Wymore, W.H. McDowell, & **E.E. Gaiser**. 2019. Percentile-range indexed mapping and evaluation (PRIME): a new tool for long term data discovery and application. Environmental Modelling and Software 124:104580. https://doi.org/10.1016/j.envsoft.2019.104580
- 93. Mazzei*, V., B. Wilson, S. Servais, S. Charles, J. Kominoski, & E.E. **Gaiser**. 2020. Periphyton as an indicator of saltwater intrusion in freshwater wetlands: insights from experimental manipulations. Ecological Applications 30:e02067. https://doi.org/10.1002/eap.2067
- 92. Charles, S.P., J.S. Kominoski, T.G. Troxler, **E.E. Gaiser**, S. Servais, B.J. Wilson, S.E. Davis, F.H. Sklar, C. Coronado-Molina, C.J. Madden, S. Kelly, & D.T. Rudnick. 2019. Experimental saltwater intrusion drives rapid soil elevation and carbon loss in freshwater and brackish Everglades marshes. Estuaries and Coasts 42:1868-1881. https://doi.org/10.1007/s12237-019-00620-3
- 91. Rivera-Monroy, V.H., T.M. Danielson, E. Castaneda-Moya, B.D. Marx, R. Travieso, X. Zhao, **E.E. Gaiser**, & L.M. Farfan. 2019. Long-term demography and stem productivity of Everglades mangrove forests (Florida, USA): Resistance to hurricane disturbance. Forest Ecology and Management 400:79-91. https://doi.org/10.1016/j.foreco.2019.02.036
- 90. Wilson, B.J., S. Servais, S.P. Charles, V. Mazzei*, **E.E. Gaiser**, J.S. Kominoski, J.H. Richards, & T.G. Troxler. 2019. Phosphorus alleviation of salinity stress: effects of

- saltwater intrusion on an Everglades freshwater peat marsh. Ecology 100(5):e02672. https://doi.org/10.1002/ecy.2672
- 89. Servais, S., J.S. Kominoski, S.E. Davis, **E.E. Gaiser**, J. Pachón, & T.G. Troxler. 2019. Effects of nutrient limitation on disturbance recovery in experimental mangrove wetlands. Wetlands 39:337-347. https://doi.org/10.1007/s13157-018-1100-z
- 88. Servais, S., J.S. Kominoski, S.P. Charles, **E.E. Gaiser**, V. Mazzei*, T.G. Troxler, & B.J. Wilson. 2019. Saltwater intrusion and soil carbon loss: Testing effects of salinity and phosphorus loading on microbial functions in experimental freshwater wetlands. Geoderma 337:1291-1300. https://doi.org/10.1016/j.geoderma.2018.11.013
- 87. Marazzi*, L., **E.E. Gaiser**, M. B. Eppinga, J. P. Sah, L. Zhai, E. Castañeda-Moya, & C. Angelini. 2019. Why do we need to document and conserve foundation species in freshwater wetlands? Water 11(2):265. https://doi.org/10.3390/w11020265
- Wilson, B., S. Servais, V. Mazzei*, L. Bauman, M. Hu, S. Davis, E.E. Gaiser, S. Kelly, J. Kominoski, C. Madden, J. Richards, D. Rudnick, F. Sklar, J. Stachelek, & T. Troxler. 2018. Salinity pulses interact with seasonal dry-down to increase ecosystem carbon loss in Florida Everglades coastal marshes. Ecological Applications 28:2092-2108. https://doi.org/10.1002/eap.1798
- Wilson, B.J., S. Servais, S.P. Charles, S. E. Davis, **E.E. Gaiser**, J.S. Kominoski, J.H. Richards, & T.G. Troxler. 2018. Declines in plant productivity drive carbon loss from brackish coastal wetland mesocosms exposed to saltwater intrusion. Estuaries and Coasts 41:2147-2158. https://doi.org/10.1007/s12237-018-0438-z
- 84. Mazzei*, V., **E.E. Gaiser**, J. Kominoski, T. Troxler, B. Wilson, S. Servais, L. Bauman, S. Davis, S. Kelly, F. Sklar, D. Rudnick, & J. Stachelek. 2018. Functional and compositional responses of periphyton mats to simulated saltwater intrusion in the southern Everglades. Estuaries and Coasts 41: 2105-2119. https://doi.org/10.1007/s12237-018-0415-6
- 83. Marazzi*, L., & E.E. Gaiser. 2018. Long-term changes in spatially structured benthic diatom assemblages in a major subtropical wetland under restoration. Inland Waters 8:434-448. https://doi.org/10.1080/20442041.2018.1500206
- 82. Kominoski, J., **E.E. Gaiser**, & S.G. Baer. 2018. Advancing theories of ecosystem development through long-term ecological research. BioScience 68:554-562. https://doi.org/10.1093/biosci/biy070
- 81. Marazzi*, L., C.M. Finlayson, P.A. Gell, P. Julian, J.S. Kominoski, & E.E. Gaiser. 2018. Balancing wetland restoration benefits to people and nature. The Solutions Journal 9(3):1-23. https://www.thesolutionsjournal.com/article/balancing-wetland-restoration-benefits-people-nature/
- 80. Davis, S.E., R. Boucek, E. Castaneda-Moya, S. Dessu, **E.E. Gaiser**, J. Kominoski, J.P. Sah, D. Surratt, & T. Troxler. 2018. Episodic disturbances drive nutrient dynamics along freshwater-to-estuary gradients in a subtropical wetland. Ecosphere 9(6):e02296. https://doi.org/10.1002/ecs2.2296
- 79. Mazzei*, V., & E.E. Gaiser. 2018. Diatoms as tools for inferring ecotone boundaries in a coastal freshwater wetland threatened by saltwater intrusion. Ecological Indicators 88:190-204. https://doi.org/10.1016/j.ecolind.2018.01.003
- 78. Sola*, A.D., L.M. Marazzi, M.M. Flores, J.S. Kominoski, & E.E. Gaiser. 2018. Short-term effects of drying-rewetting and long-term effects of nutrient loading on

- periphyton N:P stoichiometry. Water 10(2):105. https://doi.org/10.3390/w10020105
- 77. Marazzi*, L., **E.E. Gaiser**, & F.A.C. Tobias. 2017. Phosphorus scarcity and desiccation stress increase the occurrence of dominant taxa in wetland benthic primary producer communities. Aquatic Ecology 51:571-589. https://doi.org/10.1007/s10452-017-9637-0
- 76. Danielson, T.M., V.H. Rivera-Monroy, E. Castañeda-Moya, H. Briceño, R. Travieso, B.D. Marx, **E.E. Gaiser**, & L. Farfán. 2017. Assessment of Everglades mangrove forest resilience: Implications for above-ground net primary productivity and carbon dynamics. Forest Ecology and Management 404:115-125. https://doi.org/10.1016/j.foreco.2017.08.009
- 75. Naja, G.M., D.L. Childers, & **E.E. Gaiser**. 2017. Water quality implications of hydrologic restoration alternatives in the Florida Everglades, USA. Restoration Ecology 25:S48-S58. https://doi.org/10.1111/rec.12513
- 74. Mazzei*, V., & E.E. Gaiser. 2017. Scale and spatial consistency of specialization in an endemic and abundant freshwater diatom from the Caribbean Basin. Freshwater Science 36:542-554. https://doi.org/10.1086/693105
- 73. Marazzi*, L., **E.E. Gaiser**, V J. Jones, F.A.C. Tobias, & A.W. MacKay. 2017. Algal richness and life-history strategies are influenced by hydrology and phosphorus in two major subtropical wetlands. Freshwater Biology 62:274-290. https://doi.org/10.1111/fwb.12866
- 72. Malone, S.L., J. Barr, J.D. Fuentes, S.F. Oberbauer, C.L. Staudhammer, E.E. Gaiser, & G. Starr. 2016. Sensitivity to low-temperature events: Implications for CO₂ dynamics in subtropical coastal ecosystems. Wetlands 36:957–967. https://doi.org/10.1007/s13157-016-0810-3
- 71. Lammertsma, E.I., T.H. Donders, C. Pearce, H. Cremer, **E.E. Gaiser**, & F. Wagner-Cremer. 2015. Sensitivity of wetland hydrology to external climate forcing in central Florida. Quaternary Research 84:287-300. https://doi.org/10.1016/j.yqres.2015.09.003
- 70. Nodine*, E., & E.E. Gaiser. 2015. Seasonal differences and response to a tropical storm reflected in diatom assemblage changes in a southwest Florida watershed. Ecological Indicators 57:139-148. https://doi.org/10.1016/j.ecolind.2015.04.035
- 69. Gaiser, E.E., E.P. Anderson, E. Castañeda-Moya, L. Collado-Vides, J.W. Fourqurean, M.R. Heithaus, R. Jaffé, D. Lagomasino, N. Oehm, R.M. Price, V.H. Rivera-Monroy, R. Roy Chowdhury, & T. Troxler. 2015. New perspectives on an iconic landscape from comparative international long-term ecological research. Ecosphere 6(10):1-18. https://doi.org/10.1890/ES14-00388.1
- 68. Hamilton, D., C. Carey, L. Arvola, P. Arzberger, C. Brewer, J. Cole, E.E. Gaiser, P. Hanson, B. Ibelings, E. Jennings, T. Kratz, F. Lin, C. McBride, D. Motta Marques, K. Muraoka, A. Nishri, B. Qin, J. Read, K. Rose, E. Ryder, K. Weathers, G. Zhu, D. Trolle, & J. Brookes. 2014. A Global Lake Ecological Observatory Network (GLEON) for synthesizing high-frequency sensor data for validation of deterministic ecological models. Inland Waters 5:49-56. https://doi.org/10.5268/IW-5.1.566

67. Tallis, H., J. Lubechenco, ... **E.E. Gaiser**, plus 238 coauthors. 2014. Working together: A call for inclusive conservation. Comment to Nature 515:27-28. https://doi.org/10.1038/515027a

- 66. Lee*, S., **E.E. Gaiser**, B. Van De Vijver, M. Edlund, & S. Spaulding. 2014. Morphology and typification of *Mastogloia smithii* and *M. lacustris*, with descriptions of two new species from the Florida Everglades and the Caribbean region. Diatom Research 2:325-350. https://doi.org/10.1080/0269249X.2014.889038
- 65. Nodine*, E., & **E.E. Gaiser**. 2014. Distribution of diatoms along environmental gradients in the Charlotte Harbor, Florida (USA), Estuary and its watershed: implications for bioassessment of salinity and nutrient concentrations. Estuaries and Coasts 37:864-879. https://doi.org/10.1007/s12237-013-9729-6
- 64. **Gaiser, E.E.**, P. Sullivan*, F.A.C. Tobias, A.J. Bramburger, & J.C. Trexler. 2014. Boundary effects on benthic microbial phosphorus concentrations and diatom beta diversity in a hydrologically-modified, nutrient-limited wetland. Wetlands 34:55-64. https://doi.org/10.1007/s13157-011-0149-8
- 63. Sokol, E.R., J.M. Hoch, **E.E. Gaiser**, & J.C. Trexler. 2014. Metacommunity structure along resource and disturbance gradients in Everglades wetlands. 34:135-146. https://doi.org/10.1007/s13157-013-0413-1
- 62. Koch*, G.R., S. Hagerthey, D.L. Childers, & **E.E. Gaiser**. 2014. Examining seasonally pulsed detrital transport in the coastal Everglades using a sediment tracking technique. Wetlands 34:123-133. https://doi.org/10.1007/s13157-013-0388-y
- 61. Sullivan*, P.L., R.M. Price, J.L. Schedlbauer, A. Saha, & **E.E. Gaiser**. 2014. The influence of hydrologic restoration on groundwater-surface water interactions in a karst wetland, Everglades (FL, USA). Wetlands 34:23-35. https://doi.org/10.1007/s13157-013-0451-8
- 60. Weathers, K., P. Hanson, P. Arzberger, J. Brentrup, J. Brookes, C. Carey, E.E. Gaiser, D. Hamilton, G. Hong, B. Ibelings, V. Istavanovics, E. Jennings, B. Kim, T. Kratz, F. Lin, K. Muraoka, C. O'Reilly, K. Rose, E. Ryder, & G. Zhu. 2013. The Global Lake Ecological Observatory Network: The Evolution of Grassroots Network Science. Limnology and Oceanography Bulletin 23:71-73. https://doi.org/10.1002/lob.201322371
- 59. Troxler, T., E.E. Gaiser, J. Barr, J. Fuentes, R. Jaffé, D. Childers, L. Collado-Vides, V. Rivera-Monroy, E. Castañeda-Moya, W. Anderson, R. Chambers, M. Chen, C. Coronado-Molina, S. Davis, V. Engel, C. Fitz, J. Fourqurean, T. Frankovich, J. Kominoski, C. Madden, S. Malone, S. Oberbauer, P. Olivas, J. Richards, C. Saunders, J. Schedlbauer, F. Sklar, T. Smith, J. Smoak, G. Starr, R. Twilley, & K. Whelan. 2013. Integrated carbon budget models for the Everglades terrestrial-coastal-oceanic gradient: current status and needs for inter-site comparisons. Oceanography 26:98-107. https://doi.org/10.5670/oceanog.2013.51
- 58. Abbey-Lee, R.N., **E.E. Gaiser**, & J.C. Trexler. 2013. Relative roles of dispersal dynamics and competition in determining the isotopic niche breadth of a wetland fish. Freshwater Biology 58:780-792. https://doi.org/10.1111/fwb.12084
- 57. Solomon, C.T., D.A. Bruesewitz, D.C. Richardson, K.C. Rose, M.C. Van de Bogert, P.C. Hanson, T.K. Kratz, B. Larget, R. Adrian, B.L. Babin, C. Hiu, D.P. Hamilton, **E.E. Gaiser**, S. Hendricks, V. Istvánovics, A. Laas, D.M. O'Donnell, M.L. Pace, E.

- Ryder, P.A. Staehr, T. Torgersen, M.J. Vanni, K.C. Weathers, & G. Zhu. 2013. Ecosystem respiration: drivers of daily variability and background respiration in lakes around the globe. Limnology and Oceanography 58:849-866. https://doi.org/10.4319/lo.2013.58.3.0849
- Wachnicka*, A., E.E. Gaiser, L. Wingard, H. Briceño, & P. Harlem. 2013. Impact of late Holocene climate variability and anthropogenic activities on Biscayne Bay (Florida, U.S.A): evidence from diatoms. Palaeogeography, Palaeoclimatology, Palaeoecology 371:80-82. https://doi.org/10.1016/j.palaeo.2012.12.020
- 55. Lee*, S., **E.E. Gaiser**, & J. Trexler. 2013. Diatom-based models for inferring hydrology and periphyton abundance in a subtropical karstic wetland: Implications for ecosystem-scale bioassessment. Wetlands 33:157-173. https://doi.org/10.1007/s13157-012-0363-z
- 54. Wachnicka*, A., **E.E. Gaiser**, & L. Collins. 2013. Correspondence of historic salinity fluctuations in Florida Bay, USA, to atmospheric variability and anthropogenic changes. Journal of Paleolimnology 49:103-115. https://doi.org/10.1007/s10933-011-9534-9
- 53. Wachnicka*, A., L. Collins, & **E.E. Gaiser**. 2013. Response of diatom assemblages to 130 years of environmental change in Florida Bay (USA). Journal of Paleolimnology 49: 83-101. https://doi.org/10.1007/s10933-011-9556-3
- 52. Sanchez*, C., **E.E. Gaiser**, C. Saunders, A. Wachnicka*, & N. Oehm. 2013. Exploring siliceous subfossils as a tool for inferring past water level and hydroperiod in Everglades marshes. Journal of Paleolimnology 49:45-66. https://doi.org/10.1007/s10933-012-9624-3
- 51. Quillen*, A., **E.E. Gaiser**, & E. Grimm. 2013. Diatom-based paleolimnological reconstruction of regional climate and local land-use change from a protected sinkhole lake in southern Florida, U.S.A. Journal of Paleolimnology 49:15-30. https://doi.org/10.1007/s10933-011-9558-1
- 50. Bramburger*, A., J. Munyon*, & **E.E. Gaiser**. 2013. Water quality and wet season diatom assemblage characteristics from the Tamiami Trail pilot swales sites. Phytotaxa 127:163-182. http://dx.doi.org/10.11646/phytotaxa.127.1.16
- 49. Schedlbauer, J., J. Munyon*, S. Oberbauer, **E.E. Gaiser**, & G. Starr. 2012. Controls on ecosystem carbon dioxide exchange in short- and long-hydroperiod Florida Everglades freshwater marshes. Wetlands 32:801-812. https://doi.org/10.1007/s13157-012-0311-y
- 48. La Hée*, J., & E.E. **Gaiser**. 2012. Benthic diatom assemblages as indicators of water quality in the Everglades and three tropical karstic wetlands. Freshwater Science 31: 205-221. https://doi.org/10.1899/11-022.1
- 47. Dunalska, J., D. Górniak, B. Jaworska, & **E.E. Gaiser**. 2012. Effects of temperature on organic matter transformation in trophically-diversified lake ecosystems. Ecological Engineering 49:27-34. https://doi.org/10.1016/j.ecoleng.2012.08.023
- 46. Dodds, W., C. Robinson, E.E. Gaiser, G. Hansen, H. Powell, J. Smith, N. Morse, S. Gregory, T. Bell, T. Kratz, & W. McDowell. 2012. Surprises and insights from long-term aquatic data sets. BioScience 62:709-721. https://doi.org/10.1525/bio.2012.62.8.4
- 45. Wozniak, J.R., D.L. Childers, W.T. Anderson, **E.E. Gaiser**, D.T. Rudnick, & C.J. Madden. 2012. Potential N processing by southern Everglades freshwater marshes:

- Are Everglades marshes passive conduits for nitrogen? Estuarine and Coastal Shelf Science 96:60-68. https://doi.org/10.1016/j.ecss.2011.08.024
- 44. Kara, E., P. Hanson, D. Hamilton, M. Hipsey, K. McMahon, J. Read, L. Winslow, J. Dedrick, K. Rose, C. Carey, S. Bertilsson, D. Motta-Marques, L. Beversdorf, T. Miller, C. Wu, Y-F Hsieh, E.E. Gaiser, & T. Kratz. 2012. Time-scale dependence in numerical simulations: Assessment of physical, chemical, and biological predictions in a stratified lake at temporal scales from hours to months. Environmental Modelling and Software 35:104-121. https://doi.org/10.1016/j.envsoft.2012.02.014
- 43. Koch*, G.R., D.L. Childers, P.A. Staehr, R.M. Price, S.E. Davis, & **E.E. Gaiser**. 2012. Hydrological conditions control P loading and aquatic metabolism in an oligotrophic, subtropical estuary. Estuaries and Coasts 35:292-307. https://doi.org/10.1007/s12237-011-9431-5
- 42. Jennings, E., S. Jones, L. Arvola, P. A. Staehr, E.E. **Gaiser**, I. D. Jones, K. C. Weathers, G. A. Wyhenmeyer, C-Y. Chiu, & E. de Eyto. 2012. Impacts of weather related events in lakes: an analysis based on high frequency data. Freshwater Biology 57:589-601. https://doi.org/10.1111/j.1365-2427.2011.02729.x
- 41. Sargeant, B., **E.E. Gaiser**, & J. Trexler. 2011. Indirect and direct controls of macroinvertebrates and small fish by abiotic factors and trophic interactions in the Florida Everglades. Freshwater Biology 56:2334-2346. https://doi.org/10.1111/j.1365-2427.2011.02663.x
- 40. Read, J.S., D. Hamilton, I. Jones, K. Muraoka, R. Kroiss, C. Wu, & **E.E. Gaiser**. 2011. Derivation of lake mixing and stratification indices from high-resolution lake buoy data. Environmental Modelling and Software 26:1325-1336. https://doi.org/10.1016/j.envsoft.2011.05.006
- Wachnicka*, A., E.E. Gaiser, & J. Boyer. 2011. Autecology and distribution of diatoms in Biscayne Bay, Florida (USA): implications for biomonitoring and paleoenvironmental studies. Ecological Indicators 11:622-632. https://doi.org/10.1016/j.ecolind.2010.08.008
- 38. **Gaiser, E.E.**, P. McCormick, & S. Hagerthey. 2011. Landscape patterns of periphyton in the Florida Everglades. Critical Reviews in Environmental Science and Technology 41(S1):92-120. https://doi.org/10.1080/10643389.2010.531192
- 37. Hagerthey, S., B. Bellinger, K. Wheeler, M. Gantar, & **E.E. Gaiser**. 2011. Everglades periphyton: A biogeochemical perspective. Critical Reviews in Environmental Science and Technology 41(S1):309-343. https://doi.org/10.1080/10643389.2010.531218
- Liu, G., M. Naja, P. Kalla, D. Scheidt, E.E. Gaiser, & Y. Cai. 2011. Legacy and fate of mercury and methylmercury in the Florida Everglades. Environmental Science and Technology 45:496–501. https://doi.org/10.1021/es101207f
- 35. **Gaiser, E.E.**, J. La Hée*, F. Tobias, & A. Wachnicka*. 2010. *Mastogloia smithii* Thwaites *ex* Wm. Smith: A structural engineer of calcareous mats in karstic subtropical wetlands. Proceedings of the Academy of Natural Sciences, Philadelphia 160:99-112. https://doi.org/10.1635/053.160.0111
- 34. Wachnicka*, A., E.E. Gaiser, L. Collins, T. Frankovich & J. Boyer. 2010. Distribution of diatoms and development of diatom-based inferences of environmental change

- in Florida Bay and adjacent coastal wetlands of South Florida. Estuaries and Coasts 33:1080-1098. https://doi.org/10.1007/s12237-010-9283-4
- 33. Sargeant, B., J. Trexler, & E.E. Gaiser. 2010. Biotic and abiotic determinants of intermediate-consumer trophic diversity in the Florida Everglades. Marine and Freshwater Research 61:11-22. https://doi.org/10.1071/MF08322
- 32. **Gaiser, E.E.**, N. Deyrup, R. Bachmann, L. Battoe, & H. Swain. 2009. Multidecadal climate oscillations detected in a transparency record from a subtropical Florida lake. Limnology and Oceanography 54:2228–2232. https://doi.org/10.4319/lo.2009.54.6.2228
- 31. **Gaiser, E.E.**, R. Bachmann, L. Battoe, N. Deyrup, & H. Swain. 2009. Effects of climate variability on transparency and thermal structure in subtropical, monomictic Lake Annie, Florida. Fundamental and Applied Limnology 175:217-230. https://doi.org/10.1127/1863-9135/2009/0175-0217
- 30. **Gaiser, E.E.** 2009. Periphyton as an indicator of restoration in the Everglades. Ecological Indicators 9:S37-S45. https://doi.org/10.1016/j.ecolind.2008.08.004
- 29. Frankovich, T., A. Armitage, A. Wachnicka*, **E.E. Gaiser**, & J. Fourqurean. 2009. Nutrient effects on seagrass epiphyte community structure in Florida Bay. Journal of Phycology 45:1010-1020. https://doi.org/10.1111/j.1529-8817.2009.00745.x
- 28. **Gaiser, E.E.**, R. Doren, P. McCormick, S. Newman, J. Richards, & J. Trexler. 2008. Comment on "Estimating Ecological Thresholds for Phosphorus in the Everglades." Environmental Science and Technology 42:6770-6771. https://doi.org/10.1021/es800347t
- 27. Liu, G., Y. Cai, P. Kalla, D. Scheidt, J. Richards, L. Scinto, **E.E. Gaiser**, & C. Appleby. 2008. Mercury mass budget estimates and cycling seasonality in the Florida Everglades. Environmental Science and Technology 42:1954-1960. https://doi.org/10.1021/es7022994
- Wachnicka*, A.H., & E.E. Gaiser. 2007. Characterization of *Amphora* and *Seminavis* (Bacillariophyceae) from South Florida, U.S.A. Diatom Research 22:387-455. https://doi.org/10.1080/0269249X.2007.9705722
- 25. Tobias, F.A.C., & **E.E. Gaiser**. 2006. Taxonomy and distribution of taxa in the genus *Gomphonema* from the Florida Everglades, U.S.A. Diatom Research 21: 379-405. https://doi.org/10.1080/0269249X.2006.9705677
- 24. Gottlieb, A., J. Richards, & **E.E. Gaiser**. 2006. Comparative study of periphyton community structure in long and short hydroperiod Everglades marshes. Hydrobiologia 569:195-207. https://doi.org/10.1007/s10750-006-0132-1
- 23. **Gaiser, E.E.**, A. Zafiris*, P. Ruiz, F. Tobias, & M. Ross. 2006. Tracking rates of ecotone migration due to salt-water encroachment using fossil mollusks in coastal south Florida. Hydrobiologia 569:237-257. https://doi.org/10.1007/s10750-006-0135-y
- 22. Frankovich, T., **E.E. Gaiser**, J. Zieman, & A. Wachnicka*. 2006. Spatial and temporal distributions of epiphytic diatoms growing on *Thalassia testudinum* Banks ex König: relationships to water quality. Hydrobiologia 569:259-271. https://doi.org/10.1007/s10750-006-0136-x
- 21. Dorn, N., J. Trexler, & **E.E. Gaiser**. 2006. Exploring the role of large predators in marsh food webs: evidence for a behaviorally-mediated trophic cascade. Hydrobiologia 569:375-386. https://doi.org/10.1007/s10750-006-0143-y

20. Thomas*, S., **E.E. Gaiser**, & F.A.C. Tobias. 2006. Effects of shading on calcareous benthic periphyton in a short-hydroperiod oligotrophic alkaline wetland (Everglades, FL, U.S.A.). Hydrobiologia 569:209-221. https://doi.org/10.1007/s10750-006-0133-0

- 19. Ewe, S., **E.E. Gaiser**, D. Childers, V. Rivera-Monroy, D. Iwaniec, J. Fourquerean, & R. Twilley. 2006. Spatial and temporal patterns of aboveground net primary productivity (ANPP) in the Florida Coastal Everglades LTER (2001-2004). Hydrobiologia 569:459-474. https://doi.org/10.1007/s10750-006-0149-5
- 18. Xu, Y., A. Wachnicka*, **E.E. Gaiser**, & R. Jaffé. 2006. Occurrence of C₂₅ highly branced isoprenoids in Florida Bay: Paleoenvironmental indicators of diatom-derived organic matter. Organic Geochemistry 37:728-739. https://doi.org/10.1016/j.orggeochem.2006.02.001
- 17. Thomas*, S., **E.E. Gaiser**, M. Gantar, & L. Scinto. 2006. Quantifying the responses of calcareous periphyton crusts to rehydration: A microcosm study (Florida Everglades). Aquatic Botany 84:317-323. https://doi.org/10.1016/j.aquabot.2005.12.003
- 16. **Gaiser, E.E.**, J. Richards, J. Trexler, R. Jones, & D. Childers. 2006. Periphyton responses to eutrophication in the Florida Everglades: Cross-system patterns of structural and compositional change. Limnology and Oceanography 51:617-630. https://doi.org/10.4319/lo.2006.51.1_part_2.0617
- 15. Davis, S., **E.E. Gaiser**, W. Loftus, & A. Huffman. 2005. Southern marl prairies conceptual ecological model. Wetlands 25:821-831. https://doi.org/10.1672/0277-5212(2005)025[0821:SMPCEM]2.0.CO;2
- 14. **Gaiser, E.E.**, K. Rosenfeld, D. Ebert-May, E. Weber, & A. McConney. 2005. Pathways to Scientific Teaching: Here today, not gone tomorrow? Understanding extinction. Frontiers in Ecology and the Environment 7:452-453. https://doi.org/10.1890/1540-9295(2004)002[0323:PTST]2.0.CO;2
- 13. Gottlieb, A., J. Richards, & **E.E. Gaiser**. 2005. Effects of desiccation duration on the community structure and nutrient retention of short and long-hydroperiod Everglades periphyton mats. Aquatic Botany 82:99-112. https://doi.org/10.1016/j.aquabot.2005.02.012
- 12. **Gaiser, E.E.**, J. Trexler, J. Richards, D. Childers, D. Lee, A. Edwards, L. Scinto, K. Jayachandran, G. Noe, & R. Jones. 2005. Cascading ecological effects of low-level phosphorus enrichment in the Florida Everglades. Journal of Environmental Quality 34:717-723. https://doi.org/10.2134/jeq2005.0717
- 11. **Gaiser, E.E.**, M. Brooks, W. Kenney, C. Schelske, & B. Taylor. 2004. Interpreting the hydrologic history of a temporary pond using siliceous microfossils. Journal of Paleolimnology 31:63-76. https://doi.org/10.1023/B:JOPL.0000013280.72275.81
- Donar*, C., K. Condon, M. Gantar, & E.E. Gaiser. 2004. A new technique for examining the physical structure of Everglades floating periphyton mat. Nova Hedwigia 78: 107-119. https://doi.org/10.1127/0029-5035/2004/0078-0107
- Gaiser, E.E., L. Scinto, J. Richards, K. Jayachandran, D. Childers, J. Trexler, & R. Jones. 2004. Phosphorus in periphyton mats provides best metric for detecting low-level P enrichment in an oligotrophic wetland. Water Research 38:507-516. https://doi.org/10.1016/j.watres.2003.10.020

8. Thomas*, S., **E.E. Gaiser**, M. Gantar, A. Pinowska, L. Scinto, & R. Jones. 2002. Growth of calcareous epilithic mats in the margin of natural and polluted hydrosystems: phosphorus removal implications in the C-111 basin, Florida Everglades, USA. Lake and Reservoir Management 18:323-329. https://doi.org/10.1080/07438140209353939

- 7. Noe, G., D. Childers, A. Edwards, **E.E. Gaiser**, K. Jayachandran, D. Lee, J. Meeder, J. Richards, L. Scinto, J. Trexler, & R. Jones. 2001. Short-term changes in phosphorus storage in an oligotrophic Everglades wetland ecosystem receiving experimental nutrient enrichment. Biogeochemistry 59:239-267. https://doi.org/10.1023/A:1016090009874
- Gaiser, E.E., B. Taylor, & M. Brooks. 2001. Establishment of wetlands on the southeastern Atlantic Coastal Plain: Paleolimnological evidence of a mid-Holocene hydrologic threshold from a South Carolina pond. Journal of Paleolimnology 26:373-391. https://doi.org/10.1023/A:1012645302945
- Gaiser, E.E., & J. Johansen. 2000. Freshwater diatoms from Carolina bays and other isolated wetlands on the Atlantic Coastal Plain of South Carolina, U.S.A., with descriptions of seven taxa new to science. Diatom Research 15:75-130. https://doi.org/10.1080/0269249X.2000.9705487
- 4. **Gaiser, E.E.,** T. Philippi, & B. Taylor. 1998. Distribution of diatoms among intermittent ponds on the Atlantic Coastal Plain: development of a model to predict drought periodicity from surface sediment assemblages. Journal of Paleolimnology 20:71-90. https://doi.org/10.1023/A:1007969500673
- 3. **Gaiser, E.E.**, & K. Lang. 1998. Distribution of cladoceran zooplankton among prairie pothole wetlands in northwest Iowa. Lake and Reservoir Management 14:37-51. https://doi.org/10.1080/07438149809354108
- 2. **Gaiser, E.E.**, & R. Bachmann. 1994. Seasonality, substrate preference and attachment sites of epizoic diatoms on cladoceran zooplankton. Journal of Plankton Research 16:53-68. https://doi.org/10.1093/plankt/16.1.53
- 1. **Gaiser, E.E.**, & R. Bachmann. 1993. The ecology and taxonomy of epizoic diatoms on Cladocera. Limnology and Oceanography 38:628-637. https://doi.org/10.4319/lo.1993.38.3.0628

BOOKS

Childers, D.L., **E.E. Gaiser**, & L.A. Ogden (eds.) 2019. The Coastal Everglades: The Dynamics of Social-Ecological Transformation in the South Florida Landscape. Oxford University Press. ISBN: 9780190869007

CHAPTERS IN BOOKS

- 17. Childers, D.L., **E.E. Gaiser**, & L.A. Ogden. 2019. Preface. In Childers, D.L., E.E. Gaiser, and L.A. Ogden (eds.) The Coastal Everglades: The Dynamics of Social-Ecological Transformation in the South Florida Landscape. Oxford University Press.
- 16. Childers, D.L., **E.E. Gaiser**, & L.A. Ogden. 2019. Chapter 1. In Childers, D.L., E.E. Gaiser and L.A. Ogden (eds.) The Coastal Everglades: The Dynamics of Social-

- Ecological Transformation in the South Florida Landscape. Oxford University Press.
- 15. Ogden, L.A., J.C. Trexler, D.L. Childers, **E.E. Gaiser**, & K.Z.S. Schwartz. 2019. Chapter 2: The Everglades as Icon. In Childers, D.L., E.E. Gaiser and L.A. Ogden (eds.) The Coastal Everglades: The Dynamics of Social-Ecological Transformation in the South Florida Landscape. Oxford University Press.
- 14. Davis, S.E., E. Castañeda-Moya, R. Boucek, R.M. Chambers, L. Collado-Vides, H.C. Fitz, J.D. Fuentes, E.E. Gaiser, M.R. Heithaus, J.S. Rehage, V.H. Rivera-Monroy, J.P. Sah, F.H. Sklar, & T. Troxler. 2019. Chapter 7: Exogenous Drivers What has Disturbance Taught Us? In Childers, D.L., E.E. Gaiser and L.A. Ogden (eds.) The Coastal Everglades: The Dynamics of Social-Ecological Transformation in the South Florida Landscape. Oxford University Press.
- 13. **Gaiser, E.E.**, L.A. Ogden, D.L. Childers, & C. Hopkinson. Chapter 9: Re-Imagining Ecology through an Everglades Lens. 2019. In Childers, D.L., E.E. Gaiser, & L.A. Ogden (eds.) The Coastal Everglades: The Dynamics of Social-Ecological Transformation in the South Florida Landscape. Oxford University Press.
- 12. **Gaiser, E.E.** 2016. The Benefits of Long-Term Environmental Research, Friendships, and Boiled Peanuts. In Willig, M., & L. Walker (Eds.) Long-Term Environmental Research: Changing the Nature of Scientists. Chapter 17. Oxford Press.
- 11. Gann, D., J. Richards, S. Lee*, & **E.E. Gaiser**. 2015. Detecting and monitoring calcareous periphyton mats in the greater Everglades using passive remote sensing methods. In Entry, J., K. Jayachandrahan, A. Gottlieb, & A. Ogram (Eds.) Microbiology of the Everglades Ecosystem. Science Publishers. pp. 350-372.
- Gaiser, E.E., A. Gottlieb, S. Lee*, & J. Trexler. 2015. The importance of species-based microbial assessment of water quality in freshwater Everglades wetlands. In Entry, J., K. Jayachandrahan, A. Gottlieb, & A. Ogram (Eds.) Microbiology of the Everglades Ecosystem. Science Publishers. Pp. 115-130.
- 9. Gottlieb, A., E.E. Gaiser, & and S. Hagerthey. 2015. The effects of development, and water management infrastructure and operations on hydrology, nutrient loading, and conductivity in the Florida Everglades, and concurrent changes in periphyton mat community structure and function. In Entry, J., K. Jayachandrahan, A. Gottlieb, & A. Ogram (Eds.) Microbiology of the Everglades Ecosystem. Science Publishers. pp. 131-154.
- 8. Trexler, J.C., **E.E. Gaiser**, J.S. Kominoski, & J. Sanchez. 2015. The role of periphyton mats in consumer community structure and function in calcareous wetlands: lessons from the Everglades. In Entry, J., K. Jayachandrahan, A. Gottlieb, & A. Ogram (Eds.) Microbiology of the Everglades Ecosystem. Science Publishers. pp. 155-179.
- 7. **Gaiser, E.E.**, J.C. Trexler, & P.R. Wetzel. 2012. The Everglades. In Batzer, D., & A. Baldwin (Eds.), Wetland Habitats of North America: Ecology and Conservation Concerns. University of California Press, Berkeley. pp. 231-252.
- 6. Cooper, S., **E.E. Gaiser**, & A. Wachnicka*. 2010. Estuarine paleoecological reconstructions using diatoms. In Smol, J. and E. Stoermer (Eds.), The Diatoms: Applications in Environmental and Earth Sciences. Cambridge. pp. 324-345.

5. **Gaiser, E.E.**, & K. Rühland. 2010. Diatoms as indicators of environmental change in wetlands and peatlands. In Smol, J., & E. Stoermer (Eds.), The Diatoms: Applications in Environmental and Earth Sciences. Cambridge. pp. 473-496.

- 4. Hall, R., S. Thomas*, & E.E. Gaiser. 2007. Measuring freshwater primary production and respiration. In Fahey, T., & A. Knapp (Eds.), Principles and Standards for Measuring Primary Production. Oxford University Press, UK. pp. 175-203.
- 3. **Gaiser, E.E.**, A. Wachnicka*, P. Ruiz, F. Tobias, & M. Ross. 2004. Diatom indicators of ecosystem change in coastal wetlands. In Bortone, S. (Ed.), Estuarine Indicators. CRC Press, Boca Raton, FL. pp. 127-144.
- 2. Ross, M., E.E. Gaiser, J. Meeder, & M. Lewin. 2001. Multi-taxon analysis of the "white zone", a common ecotonal feature of South Florida coastal wetlands. In Porter, J., & K. Porter (Eds.), The Everglades, Florida Bay, and Coral Reefs of the Florida Keys. CRC Press, Boca Raton, FL. pp. 205-238.
- 1. Childers, D., R. Jones, J. Trexler, C. Buzzelli, J. Boyer, A. Edwards, **E.E. Gaiser**, K. Jayachandaran, D. Lee, J. Meeder, J. Pechmann, J. Richards, & L. Scinto. 2001. Quantifying the effects of low level phosphorus enrichment on unimpacted Everglades wetlands with in situ flumes and phosphorus dosing. In Porter, J., & K. Porter (Eds.), The Everglades, Florida Bay, and Coral Reefs of the Florida Keys. CRC Press, Boca Raton, FL. pp. 127-152.

EDITED SPECIAL JOURNAL ISSUES

- 5. Vanderbilt, K., & **E.E. Gaiser**. 2017. The International Long Term Ecological Research Network: A platform for collaboration. Ecosphere 8(2):e01697. https://doi.org/10.1002/ecs2.1697
- 4. Boucek, R., **E.E. Gaiser**, H. Liu, & J. Rehage. 2016. A review of sub-tropical community resistance and resilience to extreme cold spells. Ecosphere 7(10):e01455. https://doi.org/10.1002/ecs2.1455
- 3. Sullivan*, P., **E.E. Gaiser**, D. Surratt, D. Rudnick, S. Davis, & F. Sklar. 2014. Wetland ecosystem response to hydrologic restoration and management: The Everglades and its urban-agricultural boundary. Wetlands Vol. 34(S1):1-8. https://doi.org/10.1007/s13157-014-0525-2
- 2. Anderson, W., & **E.E. Gaiser**. 2013. Paleoenvironmental change in wetlands of the Florida Everglades, southeast USA. Journal of Paleolimnology 49(S1):1-3. https://doi.org/10.1007/s10933-012-9665-7
- 1. Trexler, J., **E.E. Gaiser**, & D. Childers. 2006. Interaction of hydrology and nutrients in controlling ecosystem function in oligotrophic coastal environments of South Florida. Hydrobiologia 569(1):1-2. https://doi.org/10.1007/s10750-006-0118-z

BOOK REVIEWS

- 2. **Gaiser, E.E.** 2011. Review: Lodge, T. 2010. The Everglades Handbook: Understanding the Ecosystem. 3rd Edition. CRC Press. Wetlands 32:445-446.
- 1. **Gaiser, E.E.** 2000. Review: Stoermer, E., & J. Smol. 1999. The Diatoms: Applications for the Environmental and Earth Sciences. Cambridge University Press Limnology and Oceanography 45:860-863.

OTHER CREATIVE PEER-REVIEWED WORKS

- 2. Gaiser, E.E. 2012. Think like a diatom. Word and World 32: 21-25.
- 1. **Gaiser, E.E.** 2009. Two biologists on church and faith: A call for building partnerships. Word and World 29: 85-87.

PUBLISHED DATASETS

- Gaiser, E. 2021. Periphyton Productivity from the Shark River Slough and Taylor Slough, Everglades National Park (FCE), from October 2001 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/455fc9811d2321bcdbe0764a381e3baa.
- Gaiser, E. 2021. Periphyton Biomass Accumulation from the Shark River and Taylor Sloughs, Everglades National Park (FCE LTER), from January 2003 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/eba5dc4882541be7696a1f59c1b62c64.
- Gaiser, E. 2021. Periphyton Accumulation Rates from Shark River Slough, Taylor Slough and Florida Bay, Everglades National Park (FCE LTER) from January 2001 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/e963f515578c8f33e3cc3d3bd548f234.
- Gaiser, E., D. Childers. 2021. Sawgrass above ground biomass from the Shark River Slough, Everglades National Park (FCE LTER), South Florida from November 2000 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/800da15e45d294c5d32ea601cbeb3622.
- Gaiser, E., D. Childers. 2021. Water Quality Data (Grab Samples) from the Shark River Slough, Everglades National Park (FCE LTER), from May 2001 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/b1728f184e37a74107da707f26da749e.
- Gaiser, E., D. Childers. 2021. Water Quality Data (Extensive) from the Shark River Slough, Everglades National Park (FCE LTER), from October 2000 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/c0e834e8e1bf4050db6a9967ec99b4b7.
- Gaiser, E., D. Childers. 2021. Sawgrass Above and Below Ground Total Phosphorus from the Shark River Slough, Everglades National Park (FCE LTER), from September 2002 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/a8e93b56115178781b4fab946d857b09.
- Gaiser, E., D. Childers. 2021. Sawgrass Above and Below Ground Total Nitrogen and Total Carbon from the Shark River Slough, Everglades National Park (FCE LTER), from September 2002 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/57ec1ea96f7b5830396c392cada58028.
- Gaiser, E., D. Childers. 2021. Water Quality Data (Porewater) from the Shark River Slough, Everglades National Park (FCE LTER), from January 2001 to Present. Environmental Data Initiative. https://doi.org/10.6073/pasta/269b52cfc1e30e4aaf6fa0dfb29b2407.
- Pilla, R.M., et al. 2021. Global data set of long-term summertime vertical temperature profiles in 153 lakes ver 4. Environmental Data Initiative. https://doi.org/10.6073/pasta/f889d5fe5a7e1132dcbc1f76cee660c1.
- Dempsey, C.M., J.A. Brentrup, S. Magyan, L.B. Knoll, H.M. Swain, E.E. Gaiser, D.P. Morris, M.T. Ganger, and C.E. Williamson. 2020. Photodegradation and biodegradation of dissolved organic carbon from four lakes of varying trophic status in Pennsylvania and

- Florida in 2016 ver 1. Environmental Data Initiative. https://doi.org/10.6073/pasta/f786154967693a6e86c9b63fd9e30091.
- Nelson, M., G. Shaver, S. Pickett, R. Ruess, N. Grimm, D. Tilman, T. Gragson, E. Gaiser, M. Alber, C. Driscoll, D. Foster, D. Peters, P. Robertson, J. Nippert, J. Zimmerman, M. Gooseff, R. Waide, E. Stanley, K. Suding, H. Ducklow, A. Giblin, D. Reed, W. Pockman, J. Moore, K. McGlathery, M. Ohman, and R. Schmitt. 2018. Standardized directory for US LTER sites. Data for climate, ecosystem, history, and research focus. 2016 ver 3. Environmental Data Initiative. https://doi.org/10.6073/pasta/07873c729f008116249c4f44fc2e6302.
- Rizzie, C., A. Nocentini, F. Tobias, J. Kominoski, E. Gaiser. 2020. Vegetation data collected from Northeast Shark River Slough, Everglades National Park, Florida, from September 2006 to present. Environmental Data Initiative. https://doi.org/10.6073/pasta/510de0ee18750619c160efd857211700.
- Rizzie, C., A. Nocentini, S. Sarker, J. Kominoski, E. Gaiser, L. Scinto. 2021. Biogeochemical data collected from Northeast Shark River Slough, Everglades National Park, Florida from September 2006 to present. Environmental Data Initiative. https://doi.org/10.6073/pasta/56ed2fa499366b43e43ac794fcaa52c6.
- Mazzei, V., E. Gaiser. 2018. Periphyton, hydrological and environmental data in a coastal freshwater wetland (FCE), Florida Everglades National Park, USA (2014-2015). Environmental Data Initiative. https://doi.org/10.6073/pasta/4e6dc2b1aab5c02c224a27c2eaff2e82.
- Kominoski, J., E. Gaiser. 2019. Mangrove soil phosphorus addition experiment from July 2013 to August 2013 at the mangrove peat soil mesocosms (FCE), Key Largo, Florida Nutrients in Surface Water and Aboveground Biomass. Environmental Data Initiative. https://doi.org/10.6073/pasta/96f4fc41e721f657219429c64b01f0e4.
- Kominoski, J., E. Gaiser. 2019. Mangrove soil phosphorus addition experiment from June 2013 to August 2013 at the mangrove peat soil mesocosms (FCE), Key Largo, Florida Nutrients in Porewater, Soil and Roots. Environmental Data Initiative. https://doi.org/10.6073/pasta/e355a9f1d3c1e5ad4e5764a9c24b02c3.
- Kominoski, J., E. Gaiser. 2019. Mangrove soil phosphorus addition experiment from June 2013 to August 2013 at the mangrove peat soil mesocosms (FCE), Key Largo, Florida Nutrients in Porewater, Soil and Roots. Environmental Data Initiative. https://doi.org/10.6073/pasta/e355a9f1d3c1e5ad4e5764a9c24b02c3.
- Gaiser, E., J. Trexler. 2010. Fish and consumer data collected from Northeast Shark Slough, Everglades National Park (FCE) from September 2006 to September 2008. Environmental Data Initiative. https://doi.org/10.6073/pasta/4eda63d153f0859a70c4398c3762be9e.
- Gaiser, E., L. Scinto. 2009. Biogeochemical data collected from Northeast Shark Slough, Everglades National Park (FCE LTER) from September 2006 to September 2008. Environmental Data Initiative. https://doi.org/10.6073/pasta/b07ae4ab29f525b7a9924382904e581b.
- Gaiser, E. 2017. Relative Abundance of Soft Algae From the Comprehensive Everglades Restoration Plan (CERP) Study (FCE) from February 2005 to November 2014. Environmental Data Initiative. https://doi.org/10.6073/pasta/6e16b97781030e670fd94221ac812f5d.

Gaiser, E. 2017. Relative Abundance Diatom Data from Periphyton Samples Collected for the Comprehensive Everglades Restoration Plan (CERP) Study (FCE) from February 2005 to November 2014. Environmental Data Initiative. https://doi.org/10.6073/pasta/cb0f7e88d28075a6ff1f59d008bb732c.

- Gaiser, E. 2017. Periphyton and Associated Environmental Data From the Comprehensive Everglades Restoration Plan (CERP) Study from February 2005 to November 2014 (FCE). Environmental Data Initiative. https://doi.org/10.6073/pasta/7ed04d64d07a7dd7a4694615df8211a6.
- Gaiser, E. 2012. Periphyton data from LTER Caribbean Karstic Region (CKR) study in Yucatan, Belize and Jamaica (FCE) during 2006, 2007, 2008. Environmental Data Initiative. https://doi.org/10.6073/pasta/f3a6a99aa7dacb1d338cf2d6d1698482.
- Gaiser, E. 2012. Diatom Species Abundance Data from LTER Caribbean Karstic Region (CKR) study (FCE) in Yucatan, Belize and Jamaica during 2006, 2007, 2008. Environmental Data Initiative. https://doi.org/10.6073/pasta/84241f5358c01c8dacd832b42d3fc736.
- Gaiser, E. 2012. Environmental data from FCE LTER Caribbean Karstic Region (CKR) study in Yucatan, Belize and Jamaica during Years 2006, 2007 and 2008. Environmental Data Initiative. https://doi.org/10.6073/pasta/5a01d59e5f7d73bd1f7baee2c71af765.
- Gaiser, E. 2009. Periphyton data collected from Northeast Shark Slough, Everglades National Park (FCE LTER) from September 2006 to September 2008. Environmental Data Initiative. https://doi.org/10.6073/pasta/e7898d1958661abfec2910d778cb2991.
- Gaiser, E. 2010. Macrophyte count data collected from Northeast Shark Slough, Everglades National Park (FCE LTER) from September 2006 to September 2008. Environmental Data Initiative. https://doi.org/10.6073/pasta/df0df1868e303a71e58ec7b29fcf8b29.

ORGANISMS DESCRIBED

Heterokontophyta: Bacillariophyceae (Diatoms):

Fistulifera alcalina sp. nov. Berthold, Frankovich, Gaiser, & Laughinghouse 2020

Mastogloia calcarea sp. nov. Lee, Gaiser, Van de Vijver, Edlund, & Spaulding 2014

Mastogloia pseudosmithii sp. nov. Lee, Gaiser, Van de Vijver, Edlund, & Spaulding 2014

Amphora americana sp. nov. Wachnicka & Gaiser 2007

Amphora archibaldii sp. nov. Wachnicka & Gaiser 2007

Amphora caribbea sp. nov. Wachnicka & Gaiser 2007

Amphora crenulate sp. nov. Wachnicka & Gaiser 2007

Amphora florida sp. nov. Wachnicka & Gaiser 2007

Amphora gramenorum sp. nov. Wachnicka & Gaiser 2007

Amphora indentata sp. nov. Wachnicka & Gaiser 2007 Amphora lacinia sp. nov. Wachnicka & Gaiser 2007

Amphora lunulate sp. nov. Wachnicka & Gaiser 2007

Amphora luteum sp. nov. Wachnicka & Gaiser 2007

Amphora luteum sp. nov. Wachnicka & Gaiser 2007

Amphora montgomeryi sp. nov. Wachnicka & Gaiser 2007

Amphora pseudoproteus sp. nov. Wachnicka & Gaiser 2007

Amphora pseudotenuissima sp. nov. Wachnicka & Gaiser 2007

Amphora scutella sp. nov. Wachnicka & Gaiser 2007

Amphora spriggerica sp. nov. Wachnicka & Gaiser 2007

Amphora subtropica sp. nov. Wachnicka & Gaiser 2007

Amphora tegetum sp. nov. Wachnicka & Gaiser 2007

Amphora vadosini sp. nov. Wachnicka & Gaiser 2007

Amphora acuta var. parva var. nov. Wachnicka & Gaiser 2007

Amphora cymbifera var. heritierarum var. nov. Wachnicka & Gaiser 2007

Seminavis cryptorapha sp. nov. Wachnicka & Gaiser 2007

Seminavis deliculata sp. nov. Wachnicka & Gaiser 2007

Seminavis witkowskii sp. nov. Wachnicka & Gaiser 2007

Eunotia pocosinensis sp. nov. Gaiser & Johansen 2000

Eunotia sarraceniae sp. nov. Gaiser & Johansen 2000

Pinnularia turfosiphila sp. nov. Gaiser & Johansen 2000

Pinnularia bigibba sp. nov. Gaiser & Johansen 2000

Pinnularia bigibba var. gracilis var. nov. Gaiser & Johansen 2000

Pinnularia subgibba var. lanceolata var. nov. Gaiser & Johansen 2000

Stauroneis anceps var. subrostrata var. nov. Gaiser & Johansen 2000

RESEARCH SEMINARS AND CONFERENCE TALKS

INVITED SEMINARS AND PLENARY PRESENTATIONS

- **Gaiser, E.** Panel Presentation: Sea level rise, peat soils, and the future of the Everglades. Everglades Coalition Conference. Duck Key, FL.
- 2021 **Gaiser, E.** Panel Presentation: Sea level rise and the future of the Florida Everglades. United States Committee of the International Council on Monuments and Sites Virtual International Symposium on Preserving World Heritage in a Changing Climate.
- Gaiser, E. Plenary: Pulsing dynamics and the development of coastal ecosystems facing sea-level rise. Society of Wetland Scientists. Virtual Annual Meeting.
- **Gaiser**, E. Plenary: Long-term trends in Everglades National Park. Everglades Coalition. Captiva, FL.
- 2019 **Gaiser**, E. Plenary: Climate change fortunes from plants in glass houses. Annual Meeting of the Phycological Society of America. Ft. Lauderdale, FL.
- 2019 **Gaiser**, E. & L. Marazzi. Foundation species in benthic microbial systems. Foundation Species Distributed Graduate Seminar. LTER Cross-Site Symposium.
- 2019 **Gaiser**, E. Plenary: The Wonderful Wizard of Wind. Greater Everglades Ecosystem Restoration Conference. Coral Springs, FL.
- 2018 **Gaiser**, E. Plenary: Surface tensions: Harnessing the connecting power of water for a sustainable future. Association for the Science of Limnology and Oceanography. Victoria, BC.
- 2018 **Gaiser**, E. Effects of water management on periphyton dynamics along the boundary of Everglades National Park. South Florida Natural Resource Center. Homestead, FL.
- 2018 **Gaiser**, E. Plenary: Cooperation during booms and busts: ingredients for dynamic development in ecology. Odum School of Ecology 50th Alumni Reunion. University of Georgia. Athens, GA.
- 2018 **Gaiser**, E. Hurricanes as Resilience Builders. National Science Foundation LTER Symposium. Washington, DC.
- 2017 **Gaiser**, E. Progress in long-term, networked science for society: Perspectives from the small. National Science Foundation. Arlington, VA.

2016 **Gaiser**, E. Sea Level Solutions Center: A catalyst for integrating natural sciences into urban planning. FIU Sea Level Solutions Center Public Launch. Miami, Florida.

- **Gaiser**, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Everglades Research Center. Florida Gulf Coast University, Naples, Florida.
- 2015 **Gaiser**, E. Advancing limnological theory through the Global Lakes Ecological Observatory Network. Iowa Lakeside Laboratory. Milford, Iowa.
- 2015 **Gaiser**, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Cary Institute for Ecosystem Studies. Millbrook, New York.
- 2014 **Gaiser**, E. Plenary: Biodiversity resilience in a changing world: the importance of little glass canaries in coal mines. International Diatom Symposium. Nanjing, China.
- 2013 **Gaiser**, E. Plenary: Understanding an iconic landscape through comparative international long-term ecological research. Annual Meeting of the International Long-Term Ecological Research Network. Seoul, Korea.
- 2013 **Gaiser**, E. Unraveling the biogeography of karstic wetland diatoms from Canada to the tropics. Iowa Lakeside Laboratory. Milford, IA.
- 2012 **Gaiser**, E. Sensor deployment and operations. Organization for Biological Field Stations Meeting. Archbold Biological Station. Lake Placid, FL.
- 2012 **Gaiser**, E. Evidence for multi-decadal climate controls on South Florida Ecosystems. Department of Paleoecology. Utrecht University. Utrecht, The Netherlands.
- 2012 Gaiser, E. Florida Coastal Everglades Long-Term Ecological Research Program.
 Department of Biological Sciences, Western Kentucky University. Bowling Green, KY.
- **Gaiser**, E. Expecting the unexpected: Paradox in an upside-down estuary. Department of Ecology, Evolution and Organismal Biology. Iowa State University. Ames, Iowa.
- 2011 **Gaiser**, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biological Sciences, Florida International University, Miami, FL.
- 2011 **Gaiser**, E. Legacies and scenarios of socio-ecological change in a novel, vulnerable landscape. Department of Biological Sciences, Kent State University, Kent, Ohio.
- **Gaiser**, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biological Sciences, University of Miami, Miami, FL.
- 2011 **Gaiser**, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Ecology and Environmental Sciences. Umeå Universitet, Umeå, Sweden.
- 2011 **Gaiser**, E. Florida Coastal Everglades Long Term Ecological Research. Finnish Environment Institute, Helsinki, Finland.
- Gaiser, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biological Sciences, Cleveland State University, Cleveland, Ohio.
- Gaiser, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Environmental Studies, Utrecht University, Utrecht, Netherlands.
- Gaiser, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. Department of Biology, Utrecht University, Utrecht, Netherlands.
- Gaiser, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. University of Michigan Biological Station, Douglas Lake, Michigan.
- 2010 **Gaiser**, E. Pandora's box of paradox: expecting the unexpected in an upside-down estuary. University of Florida Tropical Research and Education Center, Homestead, Florida.

Gaiser, E. 2010. Pandora's box of paradox: expecting the unexpected in an upside-down estuary. University of Florida, Gainesville, Florida.

- **Gaiser**, E. Pandora's box of paradox: expecting the unexpected in an upside-down estuary. Ave Maria University. Ave Maria, Florida.
- **Gaiser**, E., V. Rivera-Monroy, S. Davis, V. Engle & J. Fuentes. Effects of hurricanes on state changes in the Florida Everglades. Caribbean Hurricane Research Network meeting. Merida, Mexico.
- **Gaiser**, E. Pandora's box of paradox: expecting the unexpected in an upside-down estuary. University of Georgia Odum School of Ecology Graduate Student Symposium. Athens, GA.
- 2009 Gaiser, E. & L. Ogden. Florida Coastal Everglades Long-Term Ecological Research program. LTER Network Graduate Education Course. University of Georgia, Athens, GA.
- **Gaiser**, E. 2006. Ecological research in the FIU Department of Biology. FIU-Universidad Nacional Autónoma de México Marine Sciences Meeting. Merida, Yucatan, Mexico.
- **Gaiser**, E. Cascading ecological effects of low-level phosphorus enrichment and abatement in the Florida Everglades. Illinois Natural History Survey, University of Illinois, Champaign, IL.
- **Gaiser**, E. Establishing a phosphorus criterion to protect the Everglades: cascading ecological imbalances suggest a critical minimum standard. Harvard Forest, Harvard University, Petersham, MA.
- **Gaiser**, E. Establishing a phosphorus criterion to protect the Everglades: cascading ecological imbalances suggest a critical minimum standard. University of Georgia, Athens, GA.
- **Gaiser**, E. Establishing a phosphorus criterion to protect the Everglades: cascading ecological imbalances suggest a critical minimum standard. Nova Southeastern University Oceanographic Institute, Delray Beach, FL.
- **Gaiser**, E. Establishing a phosphorus criterion to protect the Everglades: cascading ecological imbalances suggest a critical minimum standard. Department of Fisheries and Aquatic Sciences, University of Florida, Gainesville, FL.
- **Gaiser**, E. Establishing a phosphorus criterion to protect the Everglades: cascading ecological imbalances suggest a critical minimum standard. Department of Biology, Southern Illinois University, Carbondale, IL.
- **Gaiser**, E. Periphyton in the Florida Everglades: effects of hydroperiod and nutrients on structural and functional dynamics. University of Miami, Department of Biology, Miami, FL.

ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS

- **Gaiser**, E., P. Kleindl, and T. Fish. Enacting LTER science through federal agency partnerships. Long Term Ecological Research Network All Scientists Meeting. Asilomar, CA.
- **Gaiser, E.** J. C. Trexler, J. Kline, F. A. Tobias, and G. Kamener. Restoring Connectivity while maintaining oligotrophy: long-term signals of legacy nutrient spiraling and recovery in wetland algal mats. Joint Aquatic Sciences Meeting. Grand Rapids, MI.

2022 **Gaiser, E.,** and N. Dorn. Wet season fauna and primary production in Florida Everglades. RECOVER Science Coordination Meeting. Virtual Presentation.

- 2022 **Gaiser, E.** Abiotic resources and stressors. Florida Coastal Everglades Long Term Ecological Research Program All Scientists Meeting. Fairchild Tropical Botanic Garden. Miami, FL.
- 2022 **Gaiser, E.** Justice, Equity, Diversity, & Inclusion. Florida Coastal Everglades Long Term Ecological Research Program All Scientists Meeting. Fairchild Tropical Botanic Garden. Miami, FL.
- 2021 Gaiser, E. Lakeridge lake water quality. Lakeridge Community Meeting. Miami, FL.
- 2021 **Gaiser**, E. Pulsing dynamics and the development of coastal ecosystems facing sea-level rise. Department of Biological, Geological, and Environmental Sciences. Cleveland State University. Cleveland, OH.
- 2021 **Gaiser**, E., J. Trexler, J. Kline, F. Tobias, & R. Travieso. Long-term periphyton dynamics reflect legacy nutrient sources and downstream biological spiraling along the eastern boundary of Everglades National Park. Greater Everglades Ecosystem Restoration Conference. Virtual presentation.
- 2021 **Gaiser**, E. Periphyton and vegetation monitoring for the adaptive management of the Upper Taylor Slough (UTS) hydrological changes. Annual meeting of the Upper Taylor Slough Adaptive Management Team. Virtual presentation.
- **Gaiser**, E., & F. Tobias. Long-term studies of calcareous benthic diatom assemblages in the Florida Everglades. Diatom Web Academy. Virtual presentation.
- 2021 **Gaiser**, E. Biodiversity patterns in the unusual benthic diatom communities of karstic Caribbean wetlands. Virtual presentation to the Caribbean Biodiversity course. Florida International University.
- 2021 **Gaiser**, E., J. Trexler, J. Kline, F. Tobias, & R. Travieso. Long-term dynamics of periphyton along the eastern boundary of Everglades National Park. South Florida Natural Resource Center. Virtual Presentation.
- **Gaiser**, E. The state of the Everglades from tiny glass houses. Virtual presentation to the Doctor of Design Program. Florida International University.
- 2020 Gaiser, E., J. Trexler, J. Kline, F. Tobias, & R. Travieso. Long-term dynamics of periphyton along the Eastern boundary of Everglades National Park. South Florida Natural Resource Center Seminar Series. Homestead, FL.
- 2020 **Gaiser**, E. Diatom sentinels ensure clean freshwater supplies in a threatened coastal wetland. Western Kentucky University. Bowling Green, KY.
- 2019 **Gaiser**, E., V. Mazzei, L. Marazzi, & E. Massa. Comparing three methods for determining phosphorus thresholds for Everglades diatoms. North American Diatom Symposium. Eatonton, GA.
- 2019 Gaiser, E., E. Castaneda-Moya, J. Kominoski, J. Rehage, T. Troxler, & K. Zhang. Hurricanes interact with disturbance legacies to effect ecosystem resilience. Annual Meeting of the Ecological Society of America. Louisville, KY.
- 2018 **Gaiser**, E. Research updates from the GLEON theory group. Global Lakes Ecological Observatory Network Annual Meeting. Rottnest Island, Australia.
- 2018 Gaiser, E., T. Crowl, J. Kominoski, N. Oehm, N. Ogle, D. Ogurcak, B. Schonhoff, & R. Teutonico. Experiential learning in subtropical ecology at the urban-wildland interface. Ecological Society of America Meeting. New Orleans, LA.

Gaiser, E. & B. Ibelings. Research updates from the GLEON theory group. Global Lakes Ecological Observatory Network Annual Meeting. Mohonk Lake, NY.

- **Gaiser**, E. The role of core species in regulating diatom network assembly. North American Diatom Symposium. South Bass Island, Ohio.
- 2017 Gaiser, E., I. Corsi, E. Nodine, & H. Swain. Long-term rainfall cycles control lake plankton dynamics, diversity and metabolism in a low latitude lake: an analog for future high latitude lakes. Annual Meeting of the American Society for Limnology and Oceanography. Honolulu, Hawaii.
- **Gaiser**, E., M. Naja, D. Childers & C. Fitz. Water quality implications of hydrologic restoration alternatives in the Florida Everglades: A periphyton perspective. Greater Everglades Ecosystem Restoration Conference. Coral Springs, FL.
- **Gaiser**, E. Combining paleoecological, observational, and high-frequency information sources to improve predictions of ecosystem resilience. National Conference on Ecosystem Restoration. Coral Springs, Florida.
- **Gaiser**, E. Periphyton responses to flow restoration: distribution, community composition, and edibility. Greater Everglades Ecosystem Restoration Conference. Coral Springs, Florida.
- **Gaiser**, E. How is LTER advancing our understanding of the dynamics and controls of primary productivity in a changing world? LTER Network Science Council Meeting. Manhattan, Kansas.
- **Gaiser**, E. & B. Ibelings. Research updates from the GLEON theory group. Global Lakes Ecological Observatory Network Annual Meeting. Orford, Quebec.
- Gaiser, E. Establishing ecological targets in ecosystems with cascading threshold responses to nutrient pollution. Joint Aquatic Sciences Meeting. Portland, OR.
- **Gaiser**, E. Advancing limnological theory through the Global Lakes Ecological Observatory Network. Southeast Environmental Research Center Brown Bag Seminar. Miami, FL.
- **Gaiser**, E. Linking high-resolution datasets to phytoplankton community change. Annual Meeting of the Global Lakes Ecological Observatory Network. Bahia Blanca, Argentina.
- **Gaiser**, E. Understanding an iconic landscape through comparative international long-term ecological research. LTER Science Council Meeting. Las Cruces, NM.
- **Gaiser**, E. Combining long-term observational and paleolimnological records to distinguish climate from local land use signals in a reference watershed. South Florida Paleoecology Mini-Symposium. Miami, FL.
- **Gaiser**, E. Commonalities in the diatom flora and benthic habitat structure of Caribbean karst and Canadian alvar wetlands. North American Diatom Symposium. Bar Harbor, ME.
- **Gaiser**, E., A. Quillen & H. Swain. Combining long-term observational and paleolimnological records to distinguish climate from local land use signals in a reference watershed. American Society for Limnology and Oceanography Annual Meeting. New Orleans, LA.
- **Gaiser**, E. Ecosystem-wide assessment of Everglades restoration using periphyton. International Association for Ecology Wetlands Conference. Orlando, FL.
- **Gaiser**, E. Update of the GLEON Limnological Theory group. Global Lake Ecological Observatory Network Annual Meeting. Lake Sunapee, NH.

Gaiser, E. Update on the Lake Annie sensor network at Archbold Biological Station. Semi-Annual Meeting of the Global Lake Ecological Observatory Network. Ramot, Israel.

- **Gaiser**, E. Update on the Lake Annie sensor network at Archbold Biological Station. Semi-Annual Meeting of the Global Lake Ecological Observatory Network. Ramot, Israel.
- **Gaiser**, E. Advanced in theoretical limnology: predicting phytoplankton assembly shifts from high-resolution environmental data. Semi-Annual Meeting of the Global Lake Ecological Observatory Network. Ramot, Israel.
- **Gaiser**, E. Advanced in theoretical limnology: predicting phytoplankton assembly shifts from high-resolution environmental data. Workshop of the Global Lake Ecological Observatory Network. Kastanienbaum, Switzerland.
- **Gaiser**, E. How to incorporate variability in community sensitivity in detecting ecological responses to management-driven shifts in hydrology and water quality. Greater Everglades Ecosystem Restoration Conference, Naples, FL.
- Gaiser, E. Regulation of oligotrophy by periphyton in karstic wetlands. Annual Meeting of the American Society of Limnology and Oceanography, Santa Fe, NM.
- **Gaiser**, E. Method development on calculating water column stability from high resolution thermal data. Global Lake Ecological Observatory Network meeting. Hamilton, New Zealand.
- **Gaiser**, E. *Mastogloia smithii* Thwaites *ex* Wm. Smith: A structural engineer of calcareous mats in karstic subtropical wetlands. North American Diatom Symposium. Milford, IA.
- **Gaiser**, E. Synchronized legacies of tropical storms on solute concentrations and primary production from uplands to coast in an expansive subtropical watershed. Biannual Meeting of the Coastal and Estuarine Research Foundation. Portland, OR.
- **Gaiser**, E. & J. Munyon. Effects of scale on the paradox of production in an oligotrophic wetland. Annual Meeting of the Ecological Society of America. Albuquerque, NM.
- **Gaiser**, E. & J. La Hée. Factors governing composition and production of freshwater stromatolitic mats in subtropical calcareous wetlands of the Caribbean. Albuquerque, NM.
- **Gaiser**, E. & H. Swain. Six months of high frequency limnological data from Lake Annie, Florida. Global Lake Ecological Observatory Network meeting. Norttälje, Sweden.
- **Gaiser**, E, M. Ross, P. Ruiz, A. Wachnicka & A. Zafiris. Effects of gradient compression on the habitat mosaic of remnant coastal wetlands in a subtropical, urban landscape. Annual Meeting of the Society for Wetland Scientists. Washington, DC.
- **Gaiser**, E. 2008. Gradients of anthropogenic impact on periphyton abundance and composition in the Florida Coastal Everglades. American Society of Limnology and Oceanography Ocean Sciences Meeting. Orlando, FL.
- **Gaiser**, E., J. La Hée, J. Trexler, C. Ruehl & W. Loftus. Factors governing composition and production of freshwater stromatolitic mats in subtropical calcareous wetlands of the Caribbean. Annual Meeting of the Ecological Society of America. Milwaukee, WI.
- **Gaiser**, E. & J. La Hée. Landscape-scale patterns of periphyton abundance and composition in the Florida Everglades. Greater Everglades Ecosystem Restoration Conference. Naples, FL.

2008 **Gaiser**, E. Landscape patterns of periphyton distribution in the Everglades. Greater Everglades Ecosystem Restoration Conference. Naples, FL.

- 2008 Gaiser, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. Effects of changes in precipitation on transparency and thermal structure in subtropical, monomictic Lake Annie, Florida. Annual Meeting of the American Society of Limnology and Oceanography. St. John's, Newfoundland.
- 2008 **Gaiser**, E. & H. Swain. Deployment of continuous monitoring sensors on Lake Annie, FL. Global Lake Ecological Observatory Network meeting. Archbold Biological Station, FL.
- 2007 **Gaiser**, E. & J. La Hée. Taxonomic and morphological variability in diatoms endemic to modern stromatolitic microbial mats of Caribbean wetlands. North American Diatom Symposium. Pellston, MI.
- 2007 **Gaiser**, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. Long-term shifts in water transparency alter thermal responses to climate change in a subtropical, monomictic seepage lake. 30th Congress of the International Association of Theoretical and Applied Limnology. Montreal, Quebec.
- 2007 Gaiser, E. Linking spatial and temporal patterns of benthic algal primary production to climate and water management drivers in the Florida Coastal Everglades Long-Term Ecological Research Program. North American Benthological Society Annual Meeting. Columbia, SC.
- 2007 **Gaiser**, E. & S. Thomas. Freshwater periphyton communities in the Greater Everglades: modeling responses to hydrology and water quality. National Conference on Ecosystem Restoration. Kansas City, MO.
- 2007 **Gaiser**, E. & D. Childers. State of the Program report. Florida Coastal Everglades Long-Term Ecological Research program Annual All Scientists Meeting. Miami, FL.
- 2007 **Gaiser**, E., J. Fourqurean, D. Childers, R. Monroy-Rivera & S. Davis. 2007. Primary production in the Florida Coastal Everglades Long-Term Ecological Research Program. Florida Coastal Everglades Long-Term Ecological Research program Annual All Scientists Meeting. Miami, FL.
- 2007 Gaiser, E. Patterns of periphyton production in the Florida Coastal Everglades Long-Term Ecological Research program. South Florida and Caribbean Cooperative Ecosystems Studies Unit Annual Meeting, Miami, FL.
- 2007 **Gaiser**, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. A 23-year record of cascading limnological effects of a shifting light environment in a monomictic seepage lake in central Florida. Global Lakes Ecological Observatory Network meeting. Lammi Biological Station, Finland.
- 2006 **Gaiser**, E. Why is periphyton so abundant in the Everglades? Florida Ecology and Evolution Society Annual Meeting. Archbold Biological Station, FL.
- 2006 **Gaiser**, E., R. Bachmann, N. Deyrup, L. Battoe & H. Swain. A 20-year limnological dataset from Lake Annie, FL. Archbold Biological Station, Lake Placid, FL.
- 2006 **Gaiser**, E., D. Iwaniec, T. Frankovich, S. Thomas & S. Ewe. Benthic algal productivity in the Florida Coastal Everglades. Long-Term Ecological Research Program All Scientists Meeting. Estes Park, CO.
- 2006 **Gaiser**, E., N. Deyrup, R. Bachmann, L. Battoe & H. Swain. A 23-year record of cascading limnological effects of a shifting light environment in a monomictic seepage lake in central Florida. Ecological Society of America. Annual Meeting. Memphis, TN.

2006 **Gaiser**, E. & S. Thomas. Freshwater periphyton communities of the Florida Everglades: An update on performance measures. Greater Everglades Ecosystem Restoration Science Annual Meeting. Orlando, FL.

- 2006 Gaiser, E., A. Zafiris, P. Ruiz, F. Tobias & M. Ross. Tracking rates of salt-water encroachment using fossil mollusks in coastal south Florida. Florida Bay and Adjacent Marine Systems Science Conference. Duck Key, FL.
- 2005 **Gaiser**, E. Marine benthic diatoms of Bocas Del Toro, Panama. 18th North American Diatom Symposium. Mobile, AL.
- 2005 **Gaiser**, E., A. Wachnicka, R. Jaffe, Y. Xu & J. Fourqurean. 2005. Paleoenvironmental history of Florida Bay: Interpretations of diatom trends and linkages to other ecological proxies. North American Benthological Society. Annual Meeting. New Orleans, LA.
- 2005 **Gaiser**, E. Periphyton in the Everglades marl prairie. Cape Sable Seaside Sparrow Symposium. Everglades National Park, FL.
- 2005 **Gaiser**, E. Tracking rates of ecotone migration due to saltwater encroachment in the Biscayne Bay Coastal Wetlands. CERP Biscayne Bay AAT RECOVER Workshop. Boca Raton, FL.
- 2004 **Gaiser**, E. Cascading ecological effects of low-level phosphorus enrichment and abatement in the Florida Everglades. National Conference on Ecosystem Restoration. Orlando, FL.
- 2004 **Gaiser**, E., A. Zafiris & M. Ross. Using paleoecology to calculate rates of migration of coastal vegetation zones due to salt-water encroachment in South Florida. Ecological Society of America. Annual Meeting. Portland, OR.
- 2003 Gaiser, E., A. Wachnicka, A. Zafiris, P. Ruiz & M. Ross. Paleoecological determination of effects of saltwater encroachment on community migration in coastal South Florida wetlands. Ecological Society of America. Annual Meeting. Savannah, GA.
- 2003 Gaiser, E., A. Edwards, K. Jayachandran, R. Jones, D. Lee, T. Philippi, J. Richards, L. Scinto & J. Trexler. Experimental phosphorus enrichment in Everglades National Park: I. Approach and Methods. Greater Everglades Ecosystem Restoration Science Conference. Tampa Bay, FL.
- 2003 Gaiser, E., D. Childers, K. Jayachandran, R. Jones, D. Lee, G. Noe, T. Philippi, J. Richards, L. Scinto & J. Trexler. Experimental phosphorus enrichment in Everglades National Park: III. Application to large-scale pattern of enrichment in Everglades Marshes. Greater Everglades Ecosystem Restoration Science Conference. Tampa Bay, FL.
- 2002 **Gaiser**, E. & M. Ross. Water flow through coastal wetlands. Biscayne Bay Coastal Wetlands Science Meeting. Miami, FL.
- 2002 **Gaiser**, E. Using diatoms to create performance measures in Biscayne coastal wetlands. Biscayne Bay Coastal Wetlands Science Meeting. Miami, FL.
- 2002 Gaiser, E., D. Childers & R. Jones. Effects of hydrologic and nutrient alterations on periphyton biomass and composition across the Everglades landscape, Florida, USA. American Society of Limnology and Oceanography. Annual Meeting. Victoria, BC.
- **Gaiser**, E. *Gomphonema* of the Florida Everglades. National Water Quality Assessment Taxonomy Workshop. Academy of Natural Sciences, Philadelphia, PA.
- 2001 **Gaiser**, E. & R. Jones. Predicting phosphorus from diatom species composition in the Everglades: effects of unstable phosphorus optima. 16th North American Diatom Symposium. Ely, MN.

2001 **Gaiser**, E., M. Brooks, W. Kenney, C. Schelske & B. Taylor. Climatic interpretation of alternations between flooded and ponded states in the Holocene history of a temporary pond in South Carolina, USA. American Society of Limnology and Oceanography. Annual Meeting. Albequerque, NM.

- 2000 Gaiser, E., L. Scinto, J. Richards, D. Childers, J. Trexler, K. Jayachandran & R. Jones. Nutrients sequestered in microbial mats reflect remote source water quality in Everglades National Park. Greater Everglades Ecosystem Restoration Science Conference. Naples, FL.
- 2000 **Gaiser**, E., R. Jones & J. Stober. Using diatoms for risk assessment in the Everglades. Greater Everglades Ecosystem Restoration Science Conference. Naples, FL.
- 2000 Gaiser, E., J. Boyer, D. Childers, J. Fourqurean, J. Richards, M. Ross & R. Twilley. 2000. Trends in primary production at the Florida Coastal Everglades (FCE) LTER: Existing data and future plans. NSF Long Term Ecological Research Program All Scientists Meeting. Snowbird, UT.
- 1999 **Gaiser**, E. & M. Ross. Diatom indicators of salt-water encroachment in South Florida coastal mangrove wetlands. 15th North American Diatom Symposium. Pingree Park, CO.
- 1999 **Gaiser**, E., J. Richards and R. Jones. Effects of low-level phosphorus enrichment on Everglades periphyton. Ecological Society of America. Annual Meeting. Spokane, WA.
- 1999 Gaiser, E., M. Ross, J. Meeder & M. Lewin. Multi-taxon analysis of the "white zone", a common ecotonal feature of South Florida coastal wetlands. Florida Bay Ecosystem Science Conference. Key Largo, FL.
- 1999 **Gaiser**, E., S. DeCelles & J. Richards. Seasonality and succession of periphyton communities in Everglades National Park, Florida. American Society of Limnology and Oceanography. Annual Meeting. Santa Fe, NM.
- 1997 **Gaiser**, E. Paleolimnological Reconstruction of Holocene Environments in Wetland Ponds of the Upper Atlantic Coastal Plain using Siliceous Microfossils. 14th North American Diatom Symposium. Pellston, MI.
- 1997 **Gaiser**, E. Development of a diatom-based transfer function to infer pond permanence from fossil assemblages in intermittent ponds of South Carolina. American Society of Limnology and Oceanography. Annual Meeting. Santa Fe, NM
- 1996 **Gaiser**, E. & B. Taylor. Development of a model for inferring drought periodicity from diatoms in ephemeral ponds of the Atlantic Coastal Plain. Ecological Society of America. Annual Meeting. Providence, RI.
- 1996 **Gaiser**, E. & B. Taylor. Paleolimnological reconstruction of Holocene environments in Carolina Bays and upland wetland ponds of the Atlantic Coastal Plain. Association of Southeastern Biologists. Annual Meeting. Statesborough, GA.
- 1995 **Gaiser**, E. Distribution of diatoms along hydrologic gradients within and among Carolina bays of the Upper Atlantic Coastal Plain. 17th Southeastern Phycological Colloquy. Charleston, SC.
- 1995 **Gaiser**, E. & B. Taylor. Development of a diatom training set for the reconstruction of hydrologies in Carolina bays of the Upper Atlantic Coastal Plain. 13th North American Diatom Symposium. Milford, IA.
- 1995 **Gaiser**, E. & B. Taylor. Paleolimnological reconstruction of Holocene environments in wetland ponds of the Upper Atlantic Coastal Plain. Ecological Society of America. Annual Meeting. Snowbird, UT.

1994 **Gaiser**, E. Development of a long-term limnological data base for lakes of Manitoulin Island, Ontario. Institute of Ecology Hydrobiology Symposium. Athens, GA.

- 1993 **Gaiser**, E. & R. Bachmann. Seasonality and taxonomy of epizoic diatoms on planktonic cladocerans in three Iowa lakes. Ecological Society of America. Annual Meeting. Madison, WI.
- 1993 **Gaiser**, E. Holocene diatoms of Carolina Bay wetlands. American Society of Limnology and Oceanography and the Society of Wetland Scientists. Annual Meeting. Edmonton, Alberta, Canada.
- 1991 **Gaiser**, E. & R. Bachmann. The ecology and taxonomy of epizoic diatoms on Cladocera. Ecological Society of America. Annual Meeting. San Antonio, TX.

RESEARCH GRANTS/CONTRACTS

GRANTS AS PRINCIPAL INVESTIGATOR AT FLORIDA INTERNATIONAL UNIVERSITY

- 2022-2023 Aquifer storage and recovery periphyton assessment. Gaiser, E. South Florida Water Management District. \$76,004. CA 4500135763. 2022-2023 Periphyton and vegetation monitoring for adaptive management of the Upper Taylor Slough (UTS) hydrological changes. Gaiser, E. South Florida Water Management District. \$110,340. CA 4500129818. 2022-2023 Analyzing the impact of changing hydrological conditions along the boundary of Everglades National Park. Gaiser, E. & N. Dorn. Everglades National Park. P21AC10834-00. \$220,650. Vegetation and periphyton monitoring and vegetation mapping of the L-31E flow 2022-2025 way and Cutler wetlands - Extension. Gaiser, E., & M. S. Ross. South Florida Water Management District. \$352,704. CA 4600004511. Wet season aquatic fauna and primary production in Florida Everglades. Gaiser, 2022-2023 E. & N. Dorn. U.S. Army Corps of Engineers. W9126-G-21-2-0047. \$847,184. Establishing a protective phosphorus criterion for Big Cypress National Preserve. 2022-2023 Gaiser, E. National Park Service, Department of Interior. \$89,497. P22AC00276-00. 2022-2023 South Florida-Caribbean Cooperative Ecosystems Studies Unit. Gaiser, E. & R. Gutierrez. National Park Service, Department of Interior. \$46,225. P21AC12003-00. 2021-2022 Vegetation and periphyton monitoring and vegetation mapping of the L-31E flow way and Cutler wetlands - Extension. Gaiser, E., & M. S. Ross. South Florida Water Management District. \$124,072. CA 4600004511. 2021-2022 Analyzing the impact of changing hydrological conditions along the boundary of Everglades National Park. Gaiser, E. & N. Dorn. Everglades National Park. P21AC10834-00. \$220,650. Periphyton and vegetation monitoring for adaptive management of the Upper 2021-2022
- Management District. \$110,340. CA 4500129818.

 2021-2022 South Florida-Caribbean Cooperative Ecosystems Studies Unit. **Gaiser**, E. & R. Gutierrez. National Park Service, Department of Interior. \$16,200. P21AC12003-00.

Taylor Slough (UTS) hydrological changes. Gaiser, E. South Florida Water

2020-2021	Periphyton and vegetation monitoring for adaptive management of the Upper Taylor Slough (UTS) hydrological changes – Extension. Year 4.5. Gaiser , E.
2020-2021	South Florida Water Management District. CA#4500129818. \$65,004. Periphyton and vegetation monitoring for adaptive management of the Upper
	Taylor Slough (UTS) hydrological changes. Gaiser , E. South Florida Water Management District. CA#4500124987. \$95,249.
2021-2023	Monitoring performance measures of the Broward County Water Preserve Areas. Gaiser , E. & N. Dorn. U.S. Army Corps of Engineers. W912HZ2020018. \$403,098.
2021-2022	Wet season aquatic fauna and primary production in Florida Everglades. Gaiser , E. & N. Dorn. U.S. Army Corps of Engineers. W9126-G-21-2-0047. \$488,537.
2021-2024	Supplement to FCE LTER IV. Research Experience for Teachers. Gaiser, E., J. Fourqurean, K. Grove, J. Kominoski, & J. Rehage. National Science Foundation. \$60,000.
2020-2021	Vegetation and periphyton monitoring and vegetation mapping of the L-31E flow way and Cutler wetlands. Gaiser , E., & M. S. Ross. South Florida Water Management District. \$92,147. CA#4600004370-9500008905.
2021-2024	FCE LTER IV: Coastal Oligotrophic Ecosystems Research. Gaiser , E., J. Fourqurean, K. Grove, J. Kominoski, J. Rehage. National Science Foundation. \$4,750,800. DEB-2025954
2020-2021	Supplement to FCE LTER IV. Research Experience for Teachers. Gaiser , E., J. Fourqurean, K. Grove, J. Kominoski, & J. Rehage. National Science Foundation. \$60,000.
2019-2020	Vegetation and periphyton monitoring, Biscayne Coastal Wetlands Component. Gaiser, E., & M.S. Ross. South Florida Water Management District. \$36,994.
2019-2020	Baseline vegetation and periphyton monitoring. Gaiser , E., & M. S. Ross. South Florida Water Management District. \$10,646.
2018-2021	FCE LTER IV: Drivers of Abrupt Change in the Florida Coastal Everglades. Gaiser, E., J. Fourqurean, K. Grove, J. Kominoski, J. Rehage. National Science Foundation. \$2,254,000. #DEB-1832229
2018-2021	Supplement to FCE LTER IV. Research Experience for Teachers. Gaiser, E., J. Fourqurean, K. Grove, J. Kominoski, & J. Rehage. National Science Foundation. \$9,999.
2017-2019	RAPID: Hurricane Irma: How do ecosystem perturbations interact to influence long-term resilience mechanisms? Gaiser , E., J. Kominoski, E. Castaneda, T. Troxler, M. Heithaus, J. Rehage, and K. Zhang. National Science Foundation. \$178,159.
2017-2020	Vegetation and periphyton monitoring Biscayne Bay Coastal Wetlands Project, L 31E component. Gaiser , E. & M. Ross. South Florida Water Management District. \$135,900.
2016-2021	Periphyton and vegetation monitoring for adaptive management of the Upper Taylor Slough (UTS) hydrological changes. Gaiser , E. South Florida Water Management District. \$313,849.
2016-2019	Supplement to FCE LTER III. Research Experience for Teachers. Research

Experience for High School Students. Gaiser, E., R. Jaffe, M. Heithaus, L. Ogden

and R. Price. National Science Foundation. \$17,000.

2015-2020 Urban Resilience to Extremes Sustainability Research Network. **Gaiser**, E., T. Troxler, and J. Kominoski. National Science Foundation Subaward from Arizona State University (C. Redman, N. Grimm). \$623,320.

- 2015-2019 Supplement to FCE LTER III. Research Experience for Teachers. Research Experience for High School Students. **Gaiser**, E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. \$17,000.
- 2015-2019 Supplement to FCE LTER III. **Gaiser,** E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. National Science Foundation. \$179,000.
- 2012-2019 FCE LTER III: Coastal Oligotrophic Ecosystems Research. National Science Foundation. **Gaiser**, E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. \$5,880,000.
- Assessing near-field and landscape scale ecological effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park. **Gaiser**, E., J. Trexler, J. Richards, L. Scinto and A. Bramburger. Department of Interior, National Park Service. \$366,000.
- 2011-2012 Supplement to FCE LTER II. **Gaiser,** E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. National Science Foundation. \$112,620.
- 2010-2012 Supplement to FCE LTER II. **Gaiser,** E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. National Science Foundation. \$158,000.
- 2009-2012 Supplement to FCE LTER II. **Gaiser,** E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. National Science Foundation. \$138,000.
- 2009-2010 Effects of Tamiami Trail swale creation on ecosystem structure and nutrient delivery to Everglades National Park. **Gaiser**, E., J. Trexler, J. Richards and L. Scinto. Department of Interior, National Park Service. \$314,000.
- 2008-2012 Supplement to FCE LTER II. **Gaiser,** E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. National Science Foundation. \$108,000.
- Developing periphyton-based hydrologic indicators for the Everglades marl prairie. **Gaiser**, E. Department of Interior, National Park Service. \$90,000.
- Supplement to FCE LTER II. **Gaiser,** E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. National Science Foundation. \$103,764.
- Supplement to FCE LTER II. **Gaiser,** E., R. Jaffe, M. Heithaus, L. Ogden and R. Price. National Science Foundation. \$10,000.
- 2006-2012 FCE LTER II: Coastal Oligotrophic Ecosystems Research. Childers, D. (Lead PI 2007), E. **Gaiser** (Lead PI 2007-2012), R. Jaffe, M. Heithaus, L. Ogden (2007-2012), and R. Price. National Science Foundation. \$4,919,999.
- Developing ecosystem response indicators to hydrologic and nutrient modifications in Northeast Shark River Slough, Everglades National Park.
 Gaiser, E., J. Trexler, L. Scinto and D. Childers. Department of the Interior, National Park Service. \$407,261.
- 2005-2008 Phosphorus retention and sub-surface movement through the S-332 detention basins on the eastern boundary of Everglades National Park. **Gaiser**, E., J. Trexler, L. Scinto and R. Price. Department of the Interior, National Park Service. \$418,320.
- 2004-2005 Analysis of algae of the Wekiva Spring drainage, FL. **Gaiser**, E. St. John's River Water Management District. \$11,725.

2004-2005	Diatom-based water quality performance metrics for Biscayne Bay. Gaiser , E. Department of Interior the, National Park Service. \$43,000.
2003-2004	Water flow through coastal wetlands. Gaiser , E. & M. Ross. Department of the Interior, National Park Service. \$15,000.
2003-2004	Determine rates and biological consequences of salt-water encroachment in coastal wetlands in Biscayne National Park. Gaiser , E. Department of the Interior, National Park Service. \$86,766.
2003-2004	Water quality in Biscayne Bay. Diatom Component. Gaiser , E. United States Geological Survey. \$12,000.
2003-2004	Linking hydrology to biological recovery after cessation of long-term phosphorus enrichment at the experimental dosing facility in Everglades National Park. Gaiser, E., J. Trexler and J. Richards. Department of the Interior, National Park Service. \$67,000.
2002-2003	Numerical interpretation of Class III Nutrient Water Criteria for Everglades wetlands. Gaiser , E., Jones, R., D. Childers, J. Trexler and J. Richards. Department of the Interior, National Park Service and the South Florida Water Management District. \$560,000.
2002-2005	Characterization of periphyton response to hydroperiod in marl prairie wetlands in the Everglades. Gaiser , E. Department of the Interior, National Park Service. \$295,130.
2001-2003	Water flow through coastal wetlands. Gaiser , E. & M. Ross. Department of the Interior, National Park Service. \$180,000.
GRANTS AS (CO-PRINCIPAL INVESTIGATOR AT FLORIDA INTERNATIONAL UNIVERSITY
2021-2025	Near-field and landscape-scale ecological effects of the modified water deliveries and combined operational plan projects in Northeast Shark River Slough, Everglades National Park. Kominoski, J., & E. Gaiser. Department of Interior, National Park Service. \$899,991.
2021-2024	Supplement to FCE LTER IV: Coastal Oligotrophic Ecosystems Research. Kominoski, J., J. Fourqurean, E. Gaiser , K. Grove, J. Rehage. National Science Foundation. \$ \$149,041. DEB-2025954
2016-2020	Assessing near-field and landscape scale ecological effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park. Kominoski, J., Gaiser , E., J. Trexler, and L. Scinto. Department of Interior, National Park Service. \$578,492. (\$135,000 to Co-PI Gaiser).
2016-2020	Aquatic fauna and periphyton production data collection. Trexler, J. and E.

(\$671,831 to Co-PI Gaiser).

2016-2020 Monitoring performance measures of the Broward County Water Preserve Areas.

Trexler, J. and E. **Gaiser**. U.S. Army Corps of Engineers. \$134,366 (\$48,973 to Co-PI Gaiser).

Gaiser. U.S. Army Corps of Engineers. CA#912HZ-20-2-0018. \$1,784,907

2016-2018 The effects of projected sea-level rise on Everglades coastal ecosystems:
Evaluating the potential for and mechanisms of peat collapse using integrated mesocosm and field manipulations. Troxler, T., F. Sklar, C. Coronado, E. Gaiser,

J. Kominoski, S. Davis, C. Madden, S. Kelly, and J. Stachelek. Florida SeaGrant. \$180,000. (\$15,000 to Co-PI Gaiser).

- Assessing near-field and landscape scale ecological effects of the Modified Water Deliveries and Comprehensive Everglades Restoration Plan Projects in Northeast Shark River Slough, Everglades National Park. Scinto, L., J. Trexler, J. Richards, and E. Gaiser. Department of Interior, National Park Service. \$300,000 (\$150,000 to Co-PI Gaiser).
- The effects of projected sea-level rise on Everglades coastal ecosystems:

 Evaluating the potential for and mechanisms of peat collapse using integrated mesocosm and field manipulations. Troxler, T., F. Sklar, C. Coronado, E. Gaiser, J. Kominoski, S. Davis, C. Madden, S. Kelly, and J. Stachelek. Florida SeaGrant. \$180,000. (\$15,000 to Co-PI Gaiser).
- 2012-2013 Phase 2: History of ecological regime shifts in Biscayne Bay (Florida, USA) related to climate change and anthropogenic activities on the SE Florida mainland. Wachnicka A., and E. **Gaiser**. U.S. Geological Survey, Reston, Virginia, USA. (\$45,000).
- 2011-2013 Phase 1: History of ecological regime shifts in Biscayne Bay (Florida, USA). Wachnicka A., and E. **Gaiser**. U.S. Geological Survey, Reston, Virginia, USA. (\$25,000).
- 2011-2015 Aquatic fauna and periphyton production data collection. Trexler, J. and E. Gaiser. U.S. Army Corps of Engineers. CA#912HZ-11-2-0048. \$1,578,900 (\$601,900 to Co-PI Gaiser).
- 2010-2012 Causes and trends of enrichment in upper Taylor Slough, Everglades National Park. Jaffé, R., E. **Gaiser** and J. La Hée. Department of Interior, National Park Service. Post-doctoral Fellowship Grant. \$90,000.
- Double Exposures: Socio- ecological vulnerabilities in the Miami-Dade Urban Region. Urban Long-Term Research Exploratory Grant. Hollander, G., L. Ogden, M. Ross, J. Heffernan and E. **Gaiser**. National Science Foundation. \$300,000 (\$50,000 to Co-PI Gaiser).
- Aquatic fauna and periphyton production data collection. Trexler, J. and E. **Gaiser**. South Florida Water Management District. CA#4600001083. \$650,705 (\$247,268 to Co-PI Gaiser).
- 2005-2008 Monitoring, modeling and assessment of the Everglades ecosystem: R-EMAP Phase III. U.S. Environmental Protection Agency. Richards, J., T. Philippi, J. Trexler, E. **Gaiser**, Y. Cai, L. Scinto and D. Childers. \$90,536.
- 2004-2005 Lake Harney sediment accumulation and past water quality. Anderson, W., E. **Gaiser** and L. Scinto. St. John's River Water Management District. \$98,000.
- 2003-2008 Aquatic fauna and periphyton production data collection. Trexler, J. and E. **Gaiser**. South Florida Water Management District. CA#C-C040130. \$1,135,064 (\$431,324 to Co-PI Gaiser).
- 2001-2004 Lake Monroe sediment accumulation and past water quality. Anderson, W., E. **Gaiser** and L. Scinto. St. John's River Water Management District. \$131,610. (\$50,000 to Co-PI Gaiser).
- 2001-2003 Periphyton design and analysis for the C-51 (STA 1 East) Project. Jones, R., E. Gaiser, M. Gantar and L. Scinto. U.S. Army Corps of Engineers. \$792,000. (\$350,000 to Co-PI Gaiser).

2000-2002	Evaluation of the potential use of periphyton-dominated storm water treatment areas for phosphorus reduction in the southern Everglades. Jones, R., E. Gaiser , M. Gantar and L. Scinto. Department of the Interior, National Park Service. \$580,000. (\$250,000 to Co-PI Gaiser).
1999-2001	Research integration of natural advanced treatment technologies. Jones, R., E. Gaiser , M. Gantar and L. Scinto. South Florida Water Management District. \$570,000. (\$100,000 to Co-PI Gaiser).
1999-2001	Southern Biscayne Bay watershed historical creek characterization. Meeder, J., M. Ross and E. Gaiser . South Florida Water Management District. \$74,000. (\$35,000 to Co-PI Gaiser).
1998-1999	Using transect sampling to relate a phosphorus addition flume study to long-term water quality impacts in Everglades marshes. Childers, D., C. Buzzelli, E. Gaiser, R. Jones, J. Richards, L. Scinto and J. Trexler. Department of the Interior, National Park Service. \$241,000. (\$120,000 to Co-PI Gaiser).
1997-2002	Numerical interpretation of Class III narrative nutrient water quality criteria for Everglades wetlands. R. Jones, J. Trexler, D. Childers, D. Lee, J. Richards, K. Jayachandran, E. Gaiser and L. Scinto. Department of the Interior, National Park Service and the South Florida Water Management District. \$4,600,000. (\$120,000 to Co-PI Gaiser).

GRANTS RECEIVED AS A GRADUATE STUDENT

1995-1997	Paleolimnological reconstruction of Holocene environments in wetland ponds of the Upper Atlantic Coastal Plain. National Science Foundation - Dissertation Improvement Grant. \$5,750.
1996	Jessup and McHenry Scholarship, The Academy of Natural Sciences, Philadelphia. \$1,200.
1995	Ruth Patrick Scholarship, The Academy of Natural Sciences, Philadelphia. \$1,200.
1993	Jessup and McHenry Scholarship, The Academy of Natural Sciences, Philadelphia. \$1,200.
1990-1991	Diatoms living on cladocerans: An analysis of a new symbiosis discovered in Iowa lakes. Iowa Science Foundation. \$1,200.
1990	Thomas H. MacBride Scholarship, University of Iowa. \$1200
1989-1990	Iowa Lakeside Laboratory Scholarship, Iowa State University. \$1200
1989-1990	Premium for Academic Excellence Scholarship, Iowa State University. \$11,000

GRANTS AND FELLOWSHIPS TO UNDERGRADUATE STUDENTS, GRADUATE STUDENTS, AND POST-DOCTORAL SCIENTISTS

2021	FIU ForEverglades Fellowship to Thomas Shannon (Ph.D. Student). \$25,000.
2021	Cristina Menendez Memorial Fellowship Award to Paige Kleindl (Ph.D. Student).
	\$5,000.
2021	Cristina Menendez Memorial Fellowship Award to Thomas Shannon (Ph.D.
	Student). \$5,000.

2021	Cristina Menendez Memorial Fellowship Award to Katie Stansbury (M.S. Student). \$4,500.
2019	North American Diatom Symposium Student Travel Award to Meredith Emery (M.S. Student). \$250.
2019	North American Diatom Symposium Student Travel Award to Kristy Sullivan (M.S. Student). \$250.
2019	The Becker Family Graduate Research Fellowship, Friends of Iowa Lakeside Laboratory, to Meredith Emery (M.S. Student). \$3,000.
2019	LacCore/CSDCO Visiting Graduate Student Program Fellowship to Meredith Emery (M.S. Student). \$5,000.
2018	Jane Goodall Endowed Scholarship, Iowa Lakeside Laboratory to Kristy Sullivan (M.S. Student). \$500.
2018	For Everglades Fellowship, Everglades Foundation, to Eric Massa (M.S. Student). \$12,000.
2017	Judith Parker Travel Scholarship to Kristen Dominguez (Undergraduate Student). \$500.
2017	William V. Storch Award of the Florida Chapter of the American Water Resources Association, to Kristen Dominguez (Undergraduate Student). \$2,000.
2017	Dissertation Year Fellowship, Florida International University, to Viviana Mazzei (Ph.D. Student). \$25,000.
2016	ForEverglades Fellowship, Everglades Foundation, to Viviana Mazzei (Ph.D. Student). \$20,000.
2016	Student Government Association Scholarship, Florida International University, to Viviana Mazzei (Ph.D. Student). \$500.
2015	North American Diatom Symposium Student Award to Emily Nodine (Ph.D. Student). \$500.
2015	William V. Storch Award of the Florida Chapter of the American Water Resources Association, to Ileana Corsi (Undergraduate Student). \$2,000.
2014	Hannah T. Croasdale Fellowship (Phycological Society of America) to Nicholas Schulte (M.S. Student). \$500.
2014	Hannah T. Croasdale Fellowship (Phycological Society of America) to Viviana Mazzei (Ph.D. Student). \$500.
2014	Paul C. Silva Student Grant for Travel or Research (International Phycological Society) to Viviana Mazzei (Ph.D. Student). \$500.
2013	Hannah T. Croasdale Fellowship (Phycological Society of America) to Sylvia Lee (Ph.D. Student). \$500.
2014	Dissertation Year Fellowship, Florida International University, to Sylvia Lee (Ph.D. Student). \$16,000.
2014	Dissertation Year Fellowship, Florida International University, to Amanda Quillen (Ph.D. Student). \$16,000.
2013	Dissertation Year Fellowship, Florida International University, to Emily Nodine (Ph.D. Student). \$16,000.
2013	Global Lakes Ecological Observatory Network Travel Award to Emily Nodine (Ph.D. Student). \$2,000.
2012	North American Diatom Symposium Student Award to Sylvia Lee (Ph.D. Student). \$500.

2012	North American Diatom Symposium Student Award to Emily Nodine (Ph.D. Student). \$500.
2012	North American Diatom Symposium Student Award to Nicholas Schulte (M.S. Student). \$500.
2012	Global Lakes Ecological Observatory Network Fellowship to Emily Nodine (Ph.D. Student).
2012	National Research Center Fellowship to Anna Wachnicka (Post-doctoral Scientist). \$165,000.
2012	Barry Goldwater Scholar to Christopher Sanchez (High School Student, Undergraduate Student).
2011	Dissertation Year Fellowship, Florida International University, to Gregory Koch (Ph.D. Student). \$25,000.
2011	Department of Interior Critical Ecosystems Ecosystems Study Initiative Postdoctoral Grant to Josette La Hée (post-doc), \$90,000.
2011	For Everglades Fellowship, Everglades Foundation, to Sylvia Lee (Ph.D. Student) \$20,000.
2010	Global Lakes Ecological Observatory Network Student Travel Fellowships to Gregory Koch (Ph.D. Student). \$6,000.
2010	Everglades Foundation Student Fellowship to Sylvia Lee (Ph.D. Student). \$20,000.
2009	Hannah T. Croasdale Fellowship (Phycological Society of America) to Emily Nodine (Ph.D. Student). \$500.
2009	For Everglades Fellowship, Everglades Foundation, to Gregory Koch (Ph.D. Student). \$20,000.
2009	North American Diatom Symposium Student Award to Anna Wachnicka (Ph.D. Student). \$500.
2009	Jessup and McHenry Scholarship, The Academy of Natural Sciences, Philadelphia to Anna Wachnicka (Ph.D. Student). \$1,200.
2009	North American Diatom Symposium Student Award to Amanda Quillen (Ph.D. Student). \$500.
2009	Intel International Science and Engineering Fair, Second Place in Plant Sciences to Christopher Sanchez (High School Student). \$1500.
2009	Florida Institute of Technology Scholarship to Christopher Sanchez (High School Student). \$40,000.
2009	North American Diatom Symposium Student Award to Sylvia Lee (Ph.D. Student). \$500.
2009	North American Diatom Symposium Student Award to Emily Nodine (Ph.D. Student). \$500.
2008	Global Lakes Ecological Observatory Network Student Travel Fellowship to Jay Munyon (Ph.D. Student). \$2,000.
2008	ForEverglades Fellowship, Everglades Foundation, to Jay Munyon (M.S. Student). \$10,000.
2007	Dissertation Year Fellowship, Florida International University, to Josette La Hée (Ph.D. Student). \$25,000.
2007	Judith Parker Travel Scholarship to Josette La Hée (Ph.D. Student). \$500.

2007	Grants-In-Aid-Of-Research in Phycology from the Phycological Society of
	America, to Josette La Hée (Ph.D. Student). \$500.
2006	Iowa Lakesdie Laboratory Merit Scholarhip to Josette La Hée (Ph.D. Student).
	\$1,000.
2006	Christina Menendez Fellowship for Everglades Research to Josette La Hée (Ph.D.
	Student). \$1,000.
2006	Latin American and Caribbean Center Research Travel Grant to Josette La Hée
	(Ph.D. Student). \$1,000.
2005	Garden Club of America Scholarship to Josette La Hée (Ph.D. Student). \$5,000.

INFORMAL SCIENCE EDUCATION AND PUBLIC ENGAGEMENT

FORMAL K-12 EDUCATION

Florida Coastal Everglades LTER Schoolyard: Between 2007-2021, I supervised the K-12 education and outreach program that includes a Research Experience program, where I have served as mentor of high school students and teachers.

Research Experiences for High School Students: Between 2007-2021, I provided research opportunities for high school students in my research lab including through near-peer mentoring, resulting in placements in the Intel International Science Fair, several university scholarships, and one peer-reviewed publication (Sanchez et al. 2013).

2010-2012	Chris Sanchez – "Exploring siliceous subfossils as a tool for inferring past water
	level and hydroperiod in Everglades marshes." First Place Botany Intel
	International Science Fair. Published results.
2014-2016	Sara Osorio – "Effects of coastal drainage restoration on diatom assemblages."
	First Place Botany Regional Science Fair.

Research Experiences for Teachers: Between 2007-2021, I provided research opportunities for teachers in my laboratory resulting in Everglades-based lesson plans using Long Term Ecological Research Network data.

BLOGS

- *Diatom of the Month:* http://youngisdr.blogspot.com/p/diatom.html (began in my lab and now led by the International Society of Diatom Research)
- *Wading Through Research*: http://floridacoastaleverglades.blogspot.com/ (began under my leadership for the FCE LTER program)

NEWSLETTERS

News from the Sloughs: https://fcelter.fiu.edu/news/index.html

NEWS ARTICLES AND OP EDS (2017-PRESENT)

Tejedor, C. 2021. Warming lakes put biodiversity at risk | FIU News - Florida International University

- Conte, C. 2021. 'Ground zero' for climate change, Florida works to preserve Everglades (thedenverchannel.com)
- Staletovich, J. 2020. Coastal Everglades, deprived of fresh water, near unhealthy 'tipping point.' *The Miami Herald*.
 - https://www.miamiherald.com/news/local/environment/article132530084.html
- Staletovich, J. 2019. New study says Everglades water is harming keys corals. Not everyone agrees. *WLRN Public Radio*. https://www.wlrn.org/environment/2019-07-23/new-study-says-everglades-water-is-harming-keys-corals-not-everyone-agrees
- Staletovich, J. 2019. If a lake could sing, what would it sound like? This scientist found the answer in big data. *WLRN Public Radio*. https://www.wlrn.org/environment/2019-06-04/if-a-lake-could-sing-what-would-it-sound-like-this-scientist-found-the-answer-in-big-data
- Miller, K. 2019. Everglades cleanup: Florida wants to drop federal oversight but is it ready? *Palm Beach Post*. https://www.palmbeachpost.com/news/20190116/everglades-cleanup-florida-wants-to-drop-federal-oversight-but-is-it-ready
- Geraldino, D. 2018. What's stopping the vulnerable Everglades from being healed? *PBS News Hour*. https://www.pbs.org/newshour/show/whats-stopping-vulnerable-everglades-healed
- Harvey, C. 2017. The Everglades have always been hit by hurricanes. Thanks to climate change, Irma could be a different matter. *The Washington Post*.

 https://www.washingtonpost.com/news/energy-environment/wp/2017/09/16/the-everglades-have-always-been-hit-by-hurricanes-thanks-to-climate-change-irma-could-be-a-different-matter/
- Gross, S. 2017. Ron DeSantis names Florida blue-green algae task force. *Tampa Bay Times*. https://www.tampabay.com/florida-politics/buzz/2019/04/29/ron-desantis-names-florida-blue-green-algae-task-force/

DOCUMENTARIES

Everglades Under Attack. Fusion Media Network. http://interactive.fusion.net/everglades/

EXHIBITS AND PANELS BY COLLABORATING ARTISTS

- 2022 Diatomaceous Dreams II and Panel on Arts, Science, and Resiliency. Richard Cohen. Glenn Hubert Library. Florida International University.
- 2021 Diatomaceous Dreams. Richard Cohen. Biscayne National Park Dante Fascell Visitor Center Gallery.
- 2018 {In Water} Hibiscus Gallery Pinecrest Gardens. Xavier Cortada. https://cortadaprojects.org/event/epoch-exhibit-at-gardens-gallery-2-2-3/
- 2018 LTER All Scientists Meeting/Next General Synthesis: Successes and Strategies Workshop: Integration of the Environmental Sciences, Arts, and Humanities across the LTER Network. Xavier Cortada. https://cortadaprojects.org/event/lter-all-scientists-meeting-next-generation-synthesis-successes-and-strategies/

2017 Why Plants in Glass Houses Matter: Art and Science of Diatoms, Microscopic Algae. Xavier Cortada. Naples Botanical Garden Havery Kapnick Education and Research Center. https://cortadaprojects.org/event/why-plants-in-glasshouses-matter/

- 2017 Diatoms. Cortada Art Studio Gallery. Xavier Cortada. Bird Road Art District. https://cortadaprojects.org/event/diatoms-exhibit-at-cortada-art-studio-gallery/
- In Deep with Diatoms. Panel Discussion. Xavier Cortada. Glenn Hubert Library. Florida International University. https://cortadaprojects.org/event/panel-discussion-in-deep-with-diatoms/
- 2016 In Deep with Diatoms. Tropical Botanic Artists. Florida Keys Eco-Discovery Center. Key West, FL. http://tropicalbotanicartists.com/news-2016a.html
- 2016 In Deep with Diatoms. Tropical Botanic Artists. Glenn Hubert Library. FIU Biscayne Bay Campus. North Miami, FL. http://tropicalbotanicartists.com/news-2016a.html
- 2015 Encyonema evergladianum. Pauline Goldsmith. Hartsfield-Jackson International Airport. Atlanta, GA. http://www.goldsmithgalleries.com/gg originalart.html
- 2015 In Deep with Diatoms. Tropical Botanic Artists. Frost Art Museum, Florida International University, Miami, FL. https://frost.fiu.edu/exhibitions-events/events/2015/02/in-deep-with-diatoms.html
- In Deep with Diatoms. Tropical Botanic Artists. Biscayne National Park, Homestead, FL. http://www.tropicalbotanicartists.com/15-in-deep-bnp.html
- 2015 CLIMA 2016 Panel: South Florida's Rising Seas Impact. Xavier Cortada. Milander Center for Arts & Entertainment. https://cortada.com/events/2015/CLIMA
- 2015 Art-Science Practice. Xavier Cortada. Presentation at the White House Office of Science and Technology Policy with Director Dr. John Holdren. https://cortadaprojects.org/event/talk-at-white-house-on-art-science-practice/
- In Deep with Diatoms. Frost Art Museum. Xavier Cortada. Gallery Exhibition and Panel Discussion. https://cortadaprojects.org/event/in-deep-with-diatioms/
- Just Below the Surface: 1915 (The Founding of Miami Beach). Xavier Cortada. Miami Beach Centennial Anniversary. https://cortadaprojects.org/2015/JustBelowTheSurface
- 2014 Anthropocene: Art and Nature in a Manufactured Era. Xavier Cortada. Artists in Residence in the Everglades. University of Miami CAS Gallery. https://cortadaprojects.org/2014/diatom/
- 2014 In Deep with Diatoms. Tropical Botanic Artists. Konza Prairie Biological Station. Manhattan, KS. http://www.tropicalbotanicartists.com/14-konza-lter.html
- 2014 In Deep with Diatoms. Tropical Botanic Artists. Deering Estate Festival of the Arts. The Deering Estate at Cutler. Miami, FL. http://www.tropicalbotanicartists.com/14-in-deep-deering.html

PERMANENT INSTALLATIONS BY COLLABORATING ARTISTS

- Diatom Court by Xavier Cortada. Pinecrest Gardens, FL. https://www.pinecrestgardens.org/fine-arts/art-in-the-gardens/florida-is-nature
- Florida is...Sunshine by Xavier Cortada. Florida Turnpike Turkey Lake Plaza. https://cortada.com/florida-is/sunshine/?mode=grid
- Diatom Fountain by Xavier Cortada. Smathers Plaza, Little Havana, Miami, FL. https://cortada.com/2017/diatomfountain

Diatom Mural by Xavier Cortada. Jack Orr Plaza, Miami-Dade Housing Authority, Overtown, FL. https://cortadaprojects.org/2016/diatomMural

MUSIC COMPOSITIONS AND PRESENTATIONS

- **Gaiser**, E.E. (composer) & M. Norris (arrangement). 2016. Lake Annie Song. https://newsarchives.fiu.edu/2016/06/lake-annie-finds-its-rhythm
- Gaiser, E.E. 2016. Lakes write music. Science is listening. TEDxFIU event. Florida International University. https://www.youtube.com/watch?v=m7fCmHG3h7k

PUBLIC PRESENTATIONS

- Gaiser, E. Periphyton: Prolific, perplexing, and prophetic pond scum. Virtual Presentation. Florida Trail Association. Big Cypress Chapter.
- 2021 Gaiser, E. Why diatoms matter. Biscayne National Park Institute. Virtual Presentation.
- 2021 **Gaiser**, E. Florida International University Deering Estate Deering Estate Foundation Memorandum of Understanding Updates. Virtual Presentation.
- 2020 **Gaiser**, E. Communicating science through arts engagement. Social Action Workshop. University of Miami, Miami, FL.
- 2019 **Gaiser**, E. Sea-level rise and the Everglades. Hinshaw & Culbertson, LLP, Third Annual Sea-Level Rise Conference. Miami, FL.
- 2018 **Gaiser**, E. Panelist: How Science Fits In. Everglades Summit. Everglades Foundation. Washington, D.C.
- 2018 **Gaiser**, E. The art of science. Mixtape Mondays. Patricia & Phillip Frost Art Museum. Miami, FL.
- 2018 **Gaiser**, E. Putting plant blindness under the microscope: why plants in glass houses matter. Pinecrest Garden Club. Miami, FL.
- 2017 **Gaiser**, E. Algae as beacons of environmental change in the Everglades and beyond: the importance of little glass "canaries in coal mines." Speaking Sustainably Series, The Deering Estate, Miami, FL.
- 2016 **Gaiser**, E. Plenary: Putting plant blindness under the microscope: why plants in glass houses matter. Annual Meeting of the American Public Garden Association. Miami, Fl.
- 2015 **Gaiser**, E. Miami 2100: Coastal wetlands and sea level rise resilience. Coral Gables Museum. Coral Gables, Florida.
- 2015 **Gaiser**, E. Expecting the unexpected: Pandora's box of paradox in an upside-down estuary. The Kampong. Coconut Grove, Florida.
- 2015 **Gaiser**, E. Coastal wetlands and sea level rise resilience. Miami Beach Centennial Environmental Summit. Miami Beach, Florida.
- 2014 **Gaiser**, E. Biodiversity resilience in a changing world: the importance of little glass canaries in coal mines. Native Plant Society. Miami, Florida.
- 2013 Gaiser, E. Diatoms of karst rock pools. Misery Bay Science Center. Misery Bay, Ontario.
- 2013 Gaiser, E., N. Deyrup, R. Bachmann, L. Battoe, & H. Swain. Using long-term observational datasets from lakes to understand climate and land-use change influences on hydrology on the Lake Wales Ridge. Lake Wales Ridge Ecosystem Working Group Meeting. Avon Park. FL.

2012 Gaiser, E. Expecting the unexpected: Paradox in an upside-down estuary. Ocean Life Lecture Series. School for Environment, Arts and Society. Florida International University. Key Largo, FL.

- 2012 Gaiser, E. Florida Coastal Everglades Long-Term Ecological Research Program – Status Update. Deering Estate. Miami, FL.
- 2005 Gaiser, E. Class III Water Quality Criterion for Everglades wetlands. South Florida Water Management District RECOVER Evaluation Meeting. Davie, FL
- 2002 Gaiser, E. Class III Water Quality Criterion for Everglades Wetlands. Florida Department of Environmental Protection presentation to the Environmental Regulation Commission. Tallahassee, FL.
- 2002 Gaiser, E. Periphyton of the Florida Everglades. South Florida Native Plant Society Meeting. Fairchild Tropical Gardens. Miami, FL.
- Gaiser, E. Recommendations for wetland restoration based on paleoecological targets. 2002 Biscayne Bay Coastal Wetlands Public Forum, Miami, FL.

PROFESSIONAL DEVELOPMENT IN SCIENCE COMMUNICATION

2018 Participant, Science Communication Experience, Alan Alda Center for Communicating Science

TEACHING EXPERIENCE AT FLORIDA INTERNATIONAL UNIVERSITY

Courses	
BSC6971	Master's Thesis
BSC7980	PhD Dissertation
BSC6913	Student Research Lab (Graduate)
BSC4914	Student Research Lab (Undergraduate)
BSC5935	Special Topics in Biology
PCB3043	Ecology
PCB3043L	Ecology Lab
PCB4301	Freshwater Ecology
PCB4301L	Freshwater Ecology Lab
PCB5301	Limnology
PCB5301L	Limnology Lab
BSC5994	Protist Workshop
ESC5162	Microfossil Workshop
BSC4912	Biodiversity of Bocas del Toro
BSC6926	Topics in Biology (Graduate)
	 Distributed graduate seminar (LTER)
	TTED D 1'

- ()
- LTER Readings
- Creative Science Communications

UNDERGRADUATE RESEARCH PROJECTS AT FIU*

2017-2019	Samantha Hormiga: Periphyton abundance patterns in the Everglades
2015-2017	Andres Sola: Controls on periphyton stoichiometry in the Everglades

2015-2016	Kristen Dominguez: Responses of phytoplankton to spring turnover
2013-2015	Ileana Corsi: Seasonal dynamics of phytoplankton in a monomictic lake
2009-2012	Anna Scharnagl: Benthic algal dynamics in the Florida Everglades
2008-2010	Jorge Carrero: Distribution of soft algae across Everglades nutrient gradients
2007-2008	Edward Metzger: Distribution dynamics of periphyton in the Everglades
2007-2010	Catherine Hamilton: Long-term dynamics of periphyton in the Everglades
2006-2007	Amanda Morales: Periphyton biomass distribution in the Everglades
2005-2006	Ana Castellanos: Periphyton abundance in the eastern Everglades
2004-2005	Irina Goldenberg: Periphyton distribution across the Greater Everglades
2004-2005	Carlos Tudela: Periphyton biomass distribution in the Florida Everglades
2004-2006	Filipe Zuniga: Periphyton distribution in the Everglades marl prairie
2003-2004	Diansy Zincke: Production and dynamics of Everglades periphyton
2003-2004	Kathleen Kelley: Periphyton dynamics in Biscayne Coastal Wetlands
2001-2003	Angie Zafiris, Paleoecological reconstruction of Biscayne Bay using mollusks

^{*}Includes only students who worked more than one full semester on specific projects in the lab. More than 150 students have participated in lab or field work for shorter time periods since 2001.

GRADUATE STUDENTS DIRECTED AS MAJOR PROFESSOR

Completed

- 16. Emery, Meredith. 2021. Reconstructing cyclical browning from diatom records in a subtropical lake. M.S. Thesis. Department of Biological Sciences, Florida International University.
- 15. Stansbury, Kaitlin. 2021. Drivers of extracellular polysaccharide production by a matforming diatom. M.S. Thesis. Department of Biological Sciences, Florida International University.
- 14. Berthold, David. 2021. Growth of diatom *Fistulifera alcalina* in bacterial co-culture and comparative mitogenomics of *Fistulifera* species. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.
- 13. Sullivan, Kristy. 2020. Long-term and seasonal drivers of phytoplankton assembly in a subtropical monomictic lake. M.S. Thesis. Department of Biological Sciences, Florida International University.
- 12. Massa, Eric. 2019. Effects of phosphorus on benthic diatom network structure. M.S. Thesis. Department of Biological Sciences, Florida International University.
- 11. Mazzei, Viviana. 2018. Diatoms as tools for inferring changing environmental gradients in coastal freshwater wetlands threatened by saltwater intrusion. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.
- 10. Schulte, Nicholas. 2016. Controls on benthic microbial community structure and assembly in a karstic coastal wetland. M.S. Thesis. Department of Biological Sciences, Florida International University.
- 9. Nodine, Emily. 2015. Evidence of climate variability and tropical cyclone activity from diatom assemblage dynamics in coastal southwest Florida. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.

8. Lee, Sylvia. 2014. Mechanisms of diatom assembly in a hydrologically-managed subtropical wetland. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.

- 7. Isherwood, Ewan. 2013. The effect of contemporary hydrologic modification on vegetation community composition distinctness in the Florida Everglades. M.S. Thesis. Department of Biological Sciences, Florida International University.
- 6. Koch, Gregory. 2011. Dynamics of ecosystem metabolism and flocculent detritus transport in estuarine Taylor River. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.
- 5. La Hée, Josette. 2010. The influence of phosphorus on periphyton mats from the Everglades and three tropical karstic wetlands. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.
- 4. Munyon, Jay. 2009. The effects of hydrology and phosphorus on Everglades productivity. M.S. Thesis. Department of Biological Sciences, Florida International University.
- 3. Quillen, Amanda. 2009. Diatom-based paleolimnological reconstruction of Quaternary environments in a Florida sinkhole lake. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.
- 2. Wachnicka, Anna. 2009. Quantitative diatom-based reconstruction of paleoenvironmental conditions in Florida Bay and Biscayne Bay, U.S.A. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.
- 1. Bachman, Pamela. 2009. Physiological performance measures and tolerance limits of estuarine indicator species in South Florida. Ph.D. Dissertation. Department of Biological Sciences, Florida International University.

In Progress

- 5. Hanna Innocent, M.S., began Fall 2023
- 4. Katherine Johnson, Ph.D., began Fall 2022
- 3. Samantha Hormiga, M.S., began Fall 2021
- 2. Paige Kleindl, Ph.D., began Fall 2020
- 1. Thomas Shannon, Ph.D., began Fall 2019

COMPLETED GRADUATE STUDENT COMMITTEES SERVED

Peter Flood, Ph.D., Biological Sciences, 2022

Matthew Smith, Ph.D., Biological Sciences, 2021

Shelby Servais, Ph.D., Biological Sciences, 2018

Jessica Sanchez, Ph.D., Biological Sciences, 2018

Michelle Thompson, Ph.D., Biological Sciences, 2018

Ross Boucek, Ph.D., Biological Sciences, 2017

Lilly Margaret Eluvanthingal, Ph.D., Biological Sciences, 2017

Sarah Bornhoeft, M.S., Biological Sciences, 2016

Carrie Rebenack, Ph.D., Earth & Environment, 2016

Jerry Berry, Ph.D., Biological Sciences, 2014

Robin Abbey-Lee, Ph.D., Biological Sciences, 2013

Rebecca Garvoille, Ph.D., Global and Sociocultural Studies, 2012

Raul Urgelles, M.S., Biological Sciences, 2010

Clifton Ruehl, Ph.D., Biological Sciences, 2010

Rudolf Von May, Ph.D., Biological Sciences, 2010

Jie Cheng, Ph.D. Earth Sciences, 2009

Clayton Williams, Ph.D. Biology, 2008

David Iwaniec, M.S. Biology, 2008

Bryan P. Carroll, M.S. Earth Sciences, 2006

Jeffrey Wozniak, Ph.D. Biology, 2006

Matthew Rogers, M.S. Biology, 2006

Sreepat Jain, Ph.D. Earth Sciences, 2006

Charles Goss, M.S. Biology, 2006

Alison Stone, M.S. Environmental Studies, 2005

Andrew Gottlieb, Ph.D. Biology, 2003

POSTDOCTORAL SCIENTISTS MENTORED

2018-2019	Viviana Mazzei (Currently: Mendenhall Fellow, United States Geological Survey, Orlando, FL.)
2015-2019	Luca Marazzi (Currently: Earthwatch Europe, Science Policy and Innovation, London, England.)
2012-2013	Pamela Sullivan (Currently: Associate Professor, Oregon State University, Corvallis, OR.)
2009-2012	Ania Wachnicka (Currently: Lead Scientist, South Florida Water Management District, West Palm Beach, FL.)
2010-2011	Amartya Saha (Currently: Ecohydrologist, Archbold Biological Station, Venus, FL.)
2009-2011	Andrew Bramburger (Currently: Watershed Hydrology and Ecology Research Division, Environment and Climate Change Canada, Ontario, CA.)
2009-2010	Josette La Hée (Currently: Vertex Aquatic Solutions, Pompano Beach, FL.)
2001-2004	Serge Thomas (Currently: Associate Professor, Florida Gulf Coast University, Ft. Myers, FL.)
2000-2001	Christopher Donar (Currently: Assistant Professor, University of Alaska, Ketchikan, AK.)

PROFESSIONAL DEVELOPMENT IN EDUCATION

2004-2006 Participant, National Science Foundation Faculty Institutes for Reforming Science Teaching

AWARDS TO GRADUATE STUDENTS (NON-FELLOWSHIP/SCHOLARSHIP)

- 2021 FIU Real Triumphs Graduate, David Berthold
- 2021 Best Poster Presentation, FIU Biosymposium, Katie Stansbury
- 2014 Best Poster Presentation, FCE LTER All Scientists Meeting, Nicholas Schulte
- 2012 3rd Place in Environment, Earth, Energy, and Ecology. Graduate Professional Student Scholarly Forum. Sylvia Lee.

2012	Honorable Mention,	INTECOL	Society of	Wetland	Scientists.	Sylvia I	Lee
------	--------------------	---------	------------	---------	-------------	----------	-----

2006 Best Student Poster Award, Anna Wachnicka, FCE LTER All Scientists Meeting

2005 Best Student Poster Award, Josette La Hée, Department of Biological Sciences, FIU

PROFESSIONAL, UNIVERSITY, AND PUBLIC SERVICE

SERVICE TO FLORIDA INTERNATIONAL UNIVERSITY

2020-Present	Director, South Florida-Caribbean, Cooperative Ecosystem Studies Unit
2020-Present	Member, Next Horizon 2025 Strategic Plan Implementation Committee
2018-2020	Member, Next Horizon 2025 Strategic Plan Finances Committee
2018-Present	Administrator, FIU-Florida Power & Light Memorandum of Understanding
2017-Present	Member, Internal Advisory Committee, ADVANCE Program
2015-2016	Member, Capital Campaign Advisory Committee
2014-2018	Representative, National Council of Environmental Deans and Directors
2014-Present	Administrator, FIU-Everglades Foundation Memorandum of Understanding
2014-Present	Administrator, FIU-Deering Estate Foundation Memorandum of Understanding
2013-Present	Member, Boating Safety Committee
2007-2012	Member, Research Council

SERVICE TO THE COLLEGE OF ARTS, SCIENCES AND EDUCATION

2014-2018	Member, Strategic Planning Committee
2014-2018	Member, Council of Chairs and Directors
2014-2020	Faculty Mentor, Dr. Elizabeth Anderson
2008-2014	Faculty Mentor, Dr. Jennifer Rehage
2005	Member, College of Arts and Science Reorganization Committee

SERVICE TO THE DEPARTMENT OF BIOLOGICAL SCIENCES

2022-2023	Chair, Personnel Committee
2021-2022	Chair, Diversity Committee
2020-Present	Member, Personnel Committee
2020	Member, Phycologist Search Committee
2018	Member, Search Committee, Goldberg Professor of Tropical Ecology
2017-Present	Faculty Mentor, Sparkle Malone
2016-Present	Faculty Mentor, Alessandro Catenazzi
2012-2014	Member, Personnel Committee
2012	Chair, Ecosystems Ecologist Search Committee
2012-2018	Faculty Mentor, John Kominoski
2010-2013	Faculty Mentor, John Withey
2010	Member, Urban Ecologist Search Committee
2006-2010	Member, Facilities Committee
2009-2012	Faculty Mentor, Jim Heffernan
2009	Chair, Ecosystem Ecologist Search Committee
2008-2014	Member, Graduate Committee

2008	Chair, Visiting Ecologist Search Committee
2004-2008	Chair, Vehicle Committee
2003-2005	Chair, Library Committee
2002-2003	Chair, Seminar Committee
2002	Member, Library Committee

SERVICE TO THE INSTITUTE OF ENVIRONMENT

2021-2022	Chair, FCE LTER Diversity Committee
2014	Chair, SERC Director Search Committee
2005-2007	Member, SERC Public Relations Committee

SERVICE AS A GRADUATE STUDENT

1995	President, Graduate Student Organization, Savannah River Ecology Lab
1990	President, Graduate Student Organization, Animal Ecology, Iowa State University

VISITING RESEARCHERS HOSTED

2018	Nancy Grimm, Arizona State University
2017	Hilary Swain, Archbold Biological Station
2017	Gavin Schmidt, NASA
2016	Joshua Ginsberg, Cary Institute of Ecosystem Studies
2014	Matt Ashworth, University of Texas
2013	Kohji Muraoka, University of Waikato, New Zealand
2013	Rike Wagner-Cremer, Utrecht University
2013	Timme Donders, Utrecht University
2013	Mark Edlund, St. Croix Watershed Research Center
2011	Emmy Lammertsma, Utrecht University
2011	Loes Bree, Utrecht University
2010	Saku Anttila, Finnish Environmental Institute
2009	Elizabeth Bergey, University of Oklahoma
2008	Andrew Bramburger, St. Lawrence River Institute
2007	Klara Kubeckova, Visiting Fullbright Scholar
2006	Eugene Stoermer, University of Michigan
2003	John Avise, University of California, Irvine

PROFESSIONAL SERVICE

Advisory Committees and Executive Boards

Chair, Long-Term Ecological Research Network Executive Board
External Advisor, Algal Taxonomy Technical Working Group, National
Ecological Observatory Network
Member, Executive Board, Long Term Ecological Research Network
Member, Executive Board, International Association of Diatom Research

2009-2018	Member, Steering Committee, Global Lake Ecological Observatory Network
2009-2011	Member, Advisory Committee, National Ecological Observatory Network
	Southeast Domain
2007-2021	Member, Science Council, Long Term Ecological Research Network

Journal Editorial Service

2017	Guest Editor, <i>Ecosphere</i>
2016	Guest Editor, <i>Ecosphere</i>
2015	Guest Editor, Ecosphere
2014-2015	Associate Editor, Frontiers in Ecology and the Environment
2013	Guest Editor, Wetlands
2012	Guest Editor, Journal of Paleolimnology
2012-Present	Associate Editor, Wetlands
2006	Guest Editor, <i>Hydrobiologia</i>

Journal and Book Chapter Reviews (number of reviews)

Aquatic Biology (3), Aquatic Ecology (5), Aquatic Sciences (1), Archiv fur Hydrobiologie (3), Biogeochemistry (1), Biogeosciences (2), Canadian Journal of Fisheries and Aquatic Sciences (1), Diatom Research (11), Ecological Applications (2), Ecological Engineering (1), Ecological Indicators (15), Ecological Monographs (1), Ecology (1), Ecology Letters (1), Ecosphere (12), Ecosystems (1), Environmental Science and Technology (6), Estuaries and Coasts (5), Estuarine, Coastal and Shelf Science (2), Freshwater Biology (14), Freshwater Science (9), Frontiers of Ecology and the Environment (1), Global Change Biology (1), Holocene (1), Hydrobiologia (44), Inland Waters (2), Journal of Biogeography (1), Journal of Applied Ecology (1), Journal of Applied Phycology (1), Journal of Ecology (1), Journal of Geophysical Research (1), Journal of Great Lakes Research (1), Journal of Paleolimnology (31), Journal of Phycology (1), Journal of Plankton Research (3), Limnology and Oceanography (10), Nova Hedwigia (2), Oecologia (3), Oxford University Press (1), Phycologia (1), PLoS One (2), Taylor and Francis Press (1), Trends in Ecology and Evolution (1), Quaternary Research (1), Water (2), Water Research (2), Wetlands (49)

Grant Proposal Reviews and Panels

National Science Foundation Reviews (67), National Science Foundation Panels (16), United States Environmental Protection Agency Reviews (10), United States Environmental Protection Agency Panel (2)

Professional Scientific Meetings Hosted/Chaired

2020	Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
2019	Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
2019	Co-Host, Phycological Society of America Meeting, Ft. Lauderdale, FL.
2010	II A 1 POP LTED AND COMMENT OF THE

Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.

- 2016 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2015 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2014 Co-Chair, Long Term Ecological Research Program Science Council Meeting, Manhattan, KS.
- 2014 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2013 Co-Chair, National Science Foundation LTER Network Mini-Symposium, Washington, DC
- 2013 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2013 Co-Chair, Long Term Ecological Research Program Science Council Meeting, Jornada, NM.
- 2013 Host, South Florida Paleoecology Symposium, Florida International University.
- 2012 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2012 Co-Chair, Long Term Ecological Research Program Science Council Meeting, Eugene, OR.
- 2011 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2010 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2009 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2009 Host, Caribbean Hurricane Research Network Meeting, Miami, FL.
- 2008 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2008 Co-Host, 6th Global Lake Ecological Observatory Network Meeting, Archbold Biological Station, FL.
- 2007 Host, Annual FCE-LTER All Scientists Meeting, Miami, FL.
- 2003 Host, 17th North American Diatom Symposium, Islamorada, FL.

PUBLIC SERVICE

2020-Present	Expert Witness, Palm Beach County vs. Florida Department of Transportation				
2019-Present	Member, Blue-Green Algae Task Force, State of Florida				
2018	Expert Witness, Palm Beach County vs. Florida Department of Transportation				
2016	Expert Witness, Palm Beach County vs. Florida Department of Transportation				
2014-Present	Member, Board of Directors, Deering Foundation				
2006	Judge, Miami-Dade County Science Fair				
2001-2005	Member, Everglades Integrative Assessment Team, South Florida Water				
	Management District				
2001-2008	Advisor, Environmental Regulatory Committee, Florida Department of				
	Environmental Protection				

PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS

- 2022 Public Service Award, Everglades Coalition
- 2020 Inducted Member, Academy of Science, Engineering and Medicine of Florida
- 2020 FIU College of Arts, Sciences and Education Award for Excellence in Research
- 2018 FIU College of Arts, Sciences and Education Award for Excellence in Research
- 2017 Champion Partner Award, Deering Foundation
- 2014 Sustainability Award, Florida International University
- 2014 Provost's Award for Excellence in Research and Creative Activities

2013	Top	Scholars	Recognition,	Florida	International	University

- 2012 Provost's Award for Excellence in Research and Creative Activities
- 2008 Provost's Award for Excellence in Faculty Scholarship
- 2008 Provost's Award for Excellence in Teaching
- 2005 Provost's Award for Excellence in Research
- 1995 Outstanding Graduate Research Award, Sigma Xi, SRA Chapter
- 1993 Best Student Publication, Institute of Ecology, University of Georgia
- 1989 Dexter Outstanding Undergraduate Student Award, Kent State University